

CURRICULUM VITAE

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RIWAYAT PENDIDIKAN FORMAL

PENDIDIKAN	NAMA SEKOLAH	TAMAT TAHUN
TK	TK IKI TUNAS BANGSA	2003
SD	SD NEGERI 2 KARANG MULIA	2009
SMP	SMP NEGERI 3 LUBAI	2012
SMA	SMA NEGERI 1 PRABUMULIH	2015

RIWAYAT PENDIDIKAN NON FORMAL

JENIS PENDIDIKAN NON FORMAL	TAHUN
EDUCATION CENTER EREC	2012-2013
GANESHA OPERATION	2014-2015

PENGALAMAN PENELITIAN

NO	NAMA PENELITIAN	TAHUN
1	RANCANG BANGUN APLIKASI <i>MONITORING</i> WIFI.ID PT TELEKOMUNIKASI INDONESIA BERBASIS ANDROID	2018

PENGHARGAAN

NO	PENGHARGAAN	TAHUN
1	JUARA 3 LOMBA <i>RECYCLE COMPONENT</i> POLITEKNIK NEGERI SRIWIJAYA	2016

PENGALAMAN ORGANISASI

NO	PENGALAMAN ORGANISASI	TAHUN
1	STAF DIVISI KESEKRETARIATAN HIMPUNAN MAHASISWA JURUSAN TEKNIK ELEKTRO POLITEKNIK NEGERI SRIWIJAYA	2015-2016
2	STAF DIVISI PSDM HIMPUNAN MAHASISWA JURUSAN TEKNIK ELEKTRO POLITEKNIK NEGERI SRIWIJAYA	2016-2017
3	STAF BIDANG BISNIS DAN KEMITRAAN HIMPUNAN MAHASISWA JURUSAN TEKNIK ELEKTRO POLITEKNIK NEGERI SRIWIJAYA	2017-2018
4	BENDAHARA 1 FORUM KOMUNIKASI HIMPUNAN MAHASISWA ELEKTRO INDONESIA WILAYAH V	2016-2017
5	ANGGOTA KOMUNITAS EARTH HOUR PALEMBANG	2018-sekarang

Semua data yang saya isikan dan tercantum dalam curriculum vitae ini adalah benar dan dapat dipertanggungjawabkan.

Palembang, 2019

(Riona Alpeni)
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Di

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Berikut adalah beberapa hal penting yang kami ingin anda lakukan sehubungan dengan penerimaan paper tersebut:

1. Mohon dilengkapi data pembayaran dari:

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2. Konfirmasikan pembayaran Anda melalui email WA 082273233495

Demikian untuk diketahui, atas perhatian dan kerjasamanya, kami ucapkan terima kasih.



Agus Perdana Windarto, M.Kom

Redaksi Jurnal Riset Sistem Informasi dan Teknik Informatika

Activate W
Go to Settings

Lampiran coding Web Database

- V_tampil_wifi.php

```
<!DOCTYPE html>
<html>
<head>
    <title>Monitoring WiFi.id</title>
</head>
<body>
    <center><h1>Monitoring WiFi.id</h1></center>
    <center><?php echo anchor('Crud_wifi/tambah','Tambah Data'); ?></center>
    <table style="margin:20px auto;" border="1">
        <tr>
            <th>SSID</th>
            <th>PASSWORD</th>
            <th>MAC</th>
            <th>Action</th>
        </tr>
        <?php
        $no = 1;
        foreach($data_wifi as $u){
            ?>
            <tr>
                <td><?php echo $u->SSID?></td>
                <td><?php echo $u->Password?></td>
                <td><?php echo $u->MAC?></td>
                <td>
                    <?php echo anchor('Crud_wifi/edit/'.$u->ID,'Edit'); ?>
                    <?php echo anchor('Crud_wifi/hapus/'.$u->ID,'Hapus'); ?>
                </td>
            </tr>
        <?php } ?>
    </table>
</body>
</html>
```

- V_tampil_hasil.php

```
<!DOCTYPE html>
<html>
<head>
    <title>Monitoring WiFi.id</title>
</head>
<body>
    <center><h1>Monitoring WiFi.id</h1></center>
    <table style="margin:20px auto;" border="1">
        <tr>
            <th>Tanggal</th>
            <th>USER</th>
            <th>SSID</th>
            <th>MAC</th>
            <th>RSSI Signal (dBm)</th>
            <th>Data Rate (bps)</th>
            <th>Frequency (Hz)</th>
            <th>Status Upload (Mbps)</th>
            <th>Status Download (Mbps)</th>
            <th>Action</th>
        </tr>
        <?php
        $no = 1;
        foreach($data_hasil as $u){
            ?>
            <tr>
                <td><?php echo $u->Tanggal?></td>
                <td><?php echo $u->User?></td>
                <td><?php echo $u->SSID?></td>
                <td><?php echo $u->MAC?></td>
```

```

                <td><?php echo $u->RSSI_SIGNAL?></td>
                <td><?php echo $u->Data_Rate?></td>
                <td><?php echo $u->Frequency?></td>
                <td><?php echo $u->Status_Upload?></td>
                <td><?php echo $u->Status_Download?></td>
                <td>
                <?php echo anchor('Crud_hasil/edit/'.$u->ID,'Edit'); ?>
                <?php echo anchor('Crud_hasil/hapus/'.$u->ID,'Hapus'); ?>
                </td>
            </tr>
        <?php }
        ?>
    </table>
</body>
</html>

```

- **V_tampil_user.php**

```

<!DOCTYPE html>
<html>
<head>
    <title>Monitoring WiFi.id</title>
</head>
<body>
    <center><h1>Monitoring WiFi.id</h1></center>
    <center><?php echo anchor('Crud_user/tambah','Tambah Data'); ?></center>
    <table style="margin:20px auto;" border="1">
        <tr>
            <th>Nama</th>
            <th>Username</th>
            <th>Password</th>
            <th>Email</th>
            <th>Photo</th>
            <th>Action</th>
        </tr>
        <?php
        $no = 1;
        foreach($tabeluser as $u){
            ?>
            <tr>
                <td><?php echo $u->Nama?></td>
                <td><?php echo $u->Username?></td>
                <td><?php echo $u->Password?></td>
                <td><?php echo $u->Email?></td>
                <td><?php echo $u->Photo?></td>
                <td>
                <?php echo anchor('Crud_user/edit/'.$u->ID,'Edit'); ?>
                <?php echo anchor('Crud_user/hapus/'.$u->ID,'Hapus'); ?>
                </td>
            </tr>
        <?php }
        ?>
    </table>
</body>
</html>

```

- **V_edit_wifi.php**

```

<!DOCTYPE html>
<html>
<head>
    <title>Monitoring WiFi.id</title>
</head>
<body>

```

```

<center>
    <h1>Monitoring WiFi.id</h1>
    <h3>Edit Data</h3>
</center>
<?php foreach($data_wifi as $u){ ?>
<form action="<?php echo base_url(). 'Crud_wifi/update'; ?>" method="post">
<table style="margin:20px auto;">
<tr>
<td>SSID</td>
<td><input type="text" name="SSID" value="<?php echo $u->SSID ?>"></td>
</tr>
<tr>
<td>Password</td>
<td><input type="text" name="Password" value="<?php echo $u->Password ?>"></td>
</tr>
<tr>
<td>MAC</td>
<td><input type="text" name="MAC" value="<?php echo $u->MAC ?>"></td>
</tr>
<td></td>
<td><input type="submit" value="Simpan"></td>
</tr>
</table>
</form>
<?php } ?>
</body>
</html>
</tr>
</table>
</form>
<?php ?>
</body>
</html>

```

- **V_edit_user.php**

```

<!DOCTYPE html>
<html>
<head>
    <title>Monitoring WiFi.id</title>
</head>
<body>
    <center>
        <h1>Monitoring WiFi.id</h1>
        <h3>Edit Data</h3>
    </center>
    <?php foreach($tabeluser as $u){ ?>
    <form action="<?php echo base_url(). 'Crud_user/update'; ?>" method="post">
        <table style="margin:20px auto;">
<tr>
<td>Nama</td>
<td><input type="text" name="Nama" value="<?php echo $u->Nama?>"></td>
</tr>
<tr>
<td>Username</td>
<td><input type="text" name="Username" value="<?php echo $u->Username?>"></td>
</tr>
<tr>
<td>Password</td>
<td><input type="text" name="Password" value="<?php echo $u->Password?>"></td>
</tr>
<tr>
<td>Email</td>

```

```

        <td><input type="text" name="Email" value="<?php echo $u->Email?>"></td>
</tr>
<tr>
    <td></td>
    <td><input type="submit" value="Simpan"></td>
</tr>
</table>
</form>
<?php } ?>
</body>
</html>

```

- **V_edit_hasil.php**

```

<!DOCTYPE html>
<html>
<head>
    <title>Monitoring WiFi.id</title>
</head>
<body>
    <center>
        <h1>Monitoring WiFi.id</h1>
        <h3>Edit Data</h3>
    </center>
<?php foreach($data_hasil as $u){ ?>
<form action="<?php echo base_url(). 'Crud_hasil/update'; ?>" method="post">
<table style="margin:20px auto;">
<tr>
    <td>Tanggal</td>
    <td><input type="text" name="Tanggal" value="<?php echo $u->Tanggal?>"></td>
</tr>
<tr>
    <td>SSID</td>
    <td><input type="text" name="SSID" value="<?php echo $u->SSID?>"></td>
</tr>
<tr>
    <td>MAC</td>
    <td><input type="text" name="MAC" value="<?php echo $u->MAC?>"></td>
</tr>
<tr>
    <td>RSSID SIGNAL</td>
    <td><input type="text" name="RSSI_SIGNAL" value="<?php echo $u->RSSI_SIGNAL?>"></td>
</tr>
<tr>
    <td>Data Rate</td>
    <td><input type="text" name="Data_Rate" value="<?php echo $u->Data_Rate?>"></td>
</tr>
<tr>
    <td>Frequency</td>
    <td><input type="text" name="Frequency" value="<?php echo $u->Frequency?>"></td>
</tr>
<tr>
    <td>Status Upload</td>
    <td><input type="text" name="Status_Upload" value="<?php echo $u->Status_Upload?>"></td>
</tr>
<tr>
    <td>Status Download</td>
    <td><input type="text" name="Status_Download" value="<?php echo $u->Status_Download?>"></td>
</tr>
<tr>
    <td></td>
    <td><input type="submit" value="Simpan"></td>
</tr>
</table>
</form>

```



```

        <?php } ?>
</body>
</html>
- M_data_wifi.php
<?php
class M_data_wifi extends CI_Model{
    function tampil_data(){
        return $this->db->get('data_wifi'); }

    function input_data($data,$table){
        $this->db->insert($table,$data); }

    function hapus_data($where,$table){
        $this->db->where($where);
        $this->db->delete($table); }

    function edit_data($where,$table){
        return $this->db->get_where($table,$where);}

    function update_data($where,$data,$table){
        $this->db->where($where);
        $this->db->update($table,$data); }
}

```

- **M_data_user.php**

```

<?php
class M_data_user extends CI_Model{
    function tampil_data(){
        return $this->db->get('tabeluser'); }

    function input_data($data,$table){
        $this->db->insert($table,$data); }

    function hapus_data($where,$table){
        $this->db->where($where);
        $this->db->delete($table); }

    function edit_data($where,$table){
        return $this->db->get_where($table,$where); }

    function update_data($where,$data,$table){
        $this->db->where($where);
        $this->db->update($table,$data);} }

```

- **M_data_hasil.php**

```

<?php
class M_data_hasil extends CI_Model{
    function tampil_data(){
        return $this->db->get('data_hasil');}

    function input_data($data,$table){
        $this->db->insert($table,$data); }
    function hapus_data($where,$table){
        $this->db->where($where);
        $this->db->delete($table); }

    function edit_data($where,$table){
        return $this->db->get_where($table,$where);}

    function update_data($where,$data,$table){
        $this->db->where($where);

```

```
$this->db->update($table,$data);} }
```

- Login_database.php

```
<?php
Class Login_Database extends CI_Model {

// Insert registration data in database
    public function registration_insert($data) {

// Query to check whether username already exist or not
        $condition = "Username =" . "" . $data['Username'] . "";
        $this->db->select('*');
        $this->db->from('tabeluser');
        $this->db->where($condition);
        $this->db->limit(1);
        $query = $this->db->get();
// Read data using username and password
        if ($query->num_rows() == 0)
        {

// Query to insert data in database
            $this->db->insert('tabeluser', $data);
            if ($this->db->affected_rows() > 0)
            {
                return true; }

            } else {

                return false; }
            }

        public function login($data) {

$condition = "Username =" . "" . $data['Username'] . " AND " . "Password =" . "" . $data['Password'] . "";

        $this->db->select('*');
        $this->db->from('tabeluser');
        $this->db->where($condition);
        $this->db->limit(1);
        $query = $this->db->get();
        if ($query->num_rows() == 1) {
            return true;
        } else {
            return false;
        }
    }
}
// Read data from database to show data in admin page
    public function read_user_information($username) {
        $condition = "Username =" . "" . $username . "";
        $this->db->select('*');
        $this->db->from('tabeluser');
        $this->db->where($condition);
        $this->db->limit(1);
        $query = $this->db->get();
        if ($query->num_rows() == 1) {
            return $query->result();
        } else {
            return false;
        }
    }
}
?>
```

- User_Authentication.php

```
<?php
// //we need to start session in order to access it through CI
Class User_Authentication extends CI_Controller {

    public function __construct() {
        parent::__construct();

// Load form helper library
        $this->load->helper('form');

// Load form validation library
        $this->load->library('form_validation');

// Load session library
// $this->load->library('session');

// Load database
        $this->load->model('login_database');
    }

// Show login page
    public function index() {
        $this->load->view('Login_form');
    }

// Show registration page
    public function user_registration_show() {
        $this->load->view('Registration_form');
    }

// Validate and store registration data in database
    public function new_user_registration() {

// Check validation for user input in SignUp form
        $this->form_validation->set_rules('Username', 'Username', 'trim|required');
        $this->form_validation->set_rules('Email_value', 'Email', 'trim|required');
        $this->form_validation->set_rules('Password', 'Password', 'trim|required');
        if ($this->form_validation->run() == FALSE) {
            $this->load->view('registration_form');
        } else {
            $data = array(
                'Username' => $this->input->post('Username'),
                'Password' => $this->input->post('Password'),
                'Email' => $this->input->post('Email_value')
            );
            $result = $this->login_database->registration_insert($data);
            if ($result == TRUE) {
                $data['message_display'] = 'Registration Successfully!';
                $this->load->view('login_form', $data);
            } else {
                $data['message_display'] = 'Username already exist!';
                $this->load->view('registration_form', $data);
            }
        }
    }

// Check for user login process
    public function user_login_process() {

        $this->form_validation->set_rules('Username', 'Username', 'trim|required');
        $this->form_validation->set_rules('Password', 'Password', 'trim|required');

        if ($this->form_validation->run() == FALSE) {
            if(isset($this->session->userdata['logged_in'])){
```

```

        $this->load->view('header');
        $this->load->view('admin_page');
        $this->load->view('footer');
    }else{
        $this->load->view('Login_form');
    }
} else {
    $data = array(
        'Username' => $this->input->post('Username'),
        'Password' => $this->input->post('Password')
    );
    //echo          json_encode($data);
    $result = $this->login_database->login($data);
    if ($result == TRUE) {

        $Username = $this->input->post('Username');
        $result = $this->login_database->read_user_information($Username);
        if ($result != false) {
            $session_data = array(
                'Username' => $result[0]->Username,
                'Email' => $result[0]->Email,
            );
// Add user data in session
            $this->session->set_userdata('logged_in', $session_data);
            $this->load->view('Header');
            $this->load->view('Admin_page');
            $this->load->view('Footer');
        }
    } else {
        $data = array(
            'error_message' => 'Invalid Username or Password'
        );
        $this->load->view('login_form', $data);
    }
}

// Logout from admin page
public function logout() {
// Removing session data
    $sess_array = array(
        'Username' => "
    );
    $this->session->unset_userdata('logged_in', $sess_array);
    $data['message_display'] = 'Successfully Logout';
    $this->load->view('Login_form', $data);
}
}
?>

```

- Crud_wifi.php

<?php

```

class Crud_wifi extends CI_Controller{

    function __construct(){
        parent::__construct();
        $this->load->model('M_data_wifi');
        $this->load->helper('url');
    }

    function index(){
        $data['data_wifi'] = $this->M_data_wifi->tampil_data()->result();
        $this->load->view('Header');
        $this->load->view('V_tampil_wifi',$data);
    }
}

```

```

        $this->load->view('Footer');
    }

    function tambah(){
        $this->load->view('V_input_wifi');
    }

    function tambah_aksi(){
        $ID = $this->input->post('ID');
        $SSID= $this->input->post('SSID');
        $Password = $this->input->post('Password');
        $MAC = $this->input->post('MAC');

        $data = array(
            'SSID' => $SSID,
            'Password' => $Password,
            'MAC' => $MAC,
        );
        $where = array(
            'ID' => $ID
        );

        $this->M_data_wifi->input_data($data,'data_wifi');
        redirect('Crud_wifi/index');
    }
    function edit($ID){
        $where = array('ID' => $ID);
        $data['data_wifi'] = $this->M_data_wifi->edit_data($where,'data_wifi')->result();
        $this->load->view('V_edit_wifi',$data);
    }

    function update(){
        $ID = $this->input->post('ID');
        $SSID= $this->input->post('SSID');
        $Password = $this->input->post('Password');
        $MAC = $this->input->post('MAC');
        $data = array(
            'SSID' => $SSID,
            'Password' => $Password,
            'MAC' => $MAC,
        );

        $where = array(
            'ID' => $ID
        );

        $this->M_data_wifi->update_data($where,$data,'data_wifi');
        redirect('Crud_wifi/index');
    }
    function hapus($ID){
        $where = array('ID' => $ID);
        $this->M_data_wifi->hapus_data($where,'data_wifi');
        redirect('Crud_wifi/index');
    }
}

```

- **Crud_user.php**

<?php

```

class Crud_user extends CI_Controller{
    function __construct(){
        parent::__construct();
        $this->load->model('M_data_user');
        $this->load->helper('url');
    }
}

```

```

}

function index(){
    $data['tabeluser'] = $this->M_data_user->tampil_data()->result();
    $this->load->view('Header');
    $this->load->view('V_tampil_user',$data);
    $this->load->view('Footer');
}

function tambah(){
    $this->load->view('V_input_user');
}

function tambah_aksi(){
    $ID = $this->input->post('ID');
    $Nama = $this->input->post('Nama');
    $Username = $this->input->post('Username');
    $Password = $this->input->post('Password');
    $Email = $this->input->post('Email');
    $Photo=$this->input->post('Photo');

    $data = array(
        'Nama' => $Nama,
        'Username' => $Username,
        'Password' => $Password,
        'Email' => $Email,
        'Photo' =>$Photo,
    );
    $where = array(
        'ID' => $ID
    );
    $this->M_data_user->input_data($data,'tabeluser');
    redirect('Crud_user/index');
}

function edit($ID){
    $where = array('ID' => $ID);
    $data['tabeluser'] = $this->M_data_user->edit_data($where,'tabeluser')->result();
    $this->load->view('V_edit_user',$data);
}

function update(){
    $ID = $this->input->post('ID');
    $Nama = $this->input->post('Nama');
    $Username = $this->input->post('Username');
    $Password = $this->input->post('Password');
    $Email = $this->input->post('Email');
    $Photo = $this->input->post('Photo');

    $data = array(
        'Nama' => $Nama,
        'Username' => $Username,
        'Password' => $Password,
        'Email' => $Email,
        'Photo' => $Photo,);
    $where = array(
        'ID' => $ID
    );
    $this->M_data_user->update_data($where,$data,'tabeluser');
    redirect('Crud_user/index');
}

function hapus($ID){
    $where = array('ID' => $ID);
    $this->M_data_user->hapus_data($where,'tabeluser');
    redirect('Crud_user/index');
}

```

```
}
```

- **Crud_hasil.php**

```
<?php
```

```
class Crud_hasil extends CI_Controller{
    function __construct(){
        parent::__construct();
        $this->load->model('M_data_hasil');
        $this->load->helper('url');
    }

    function index(){
        $data['data_hasil'] = $this->M_data_hasil->tampil_data()->result();
        $this->load->view('Header');
        $this->load->view('V_tampil_hasil',$data);
        $this->load->view('Footer');
    }
    function tambah(){
        $this->load->view('V_input_hasil');
    }

    function tambah_aksi(){
        $ID = $this->input->post('ID');
        $Nama_Wifi= $this->input->post('Nama_Wifi');
        $Tanggal = $this->input->post('Tanggal');
        $SSID= $this->input->post('SSID');
        $MAC= $this->input->post('MAC');
        $RSSID_SIGNAL = $this->input->post('RSSID_SIGNAL');
        $Channel = $this->input->post('Channel');
        $Data_Rate = $this->input->post('Data_Rate');
        $Frequency = $this->input->post('Frequency');
        $Status_Upload = $this->input->post('Status_Upload');
        $Status_Download = $this->input->post('Status_Download');
        $data = array(
            'Nama_Wifi' => $Nama_Wifi,
            'Tanggal' => $Tanggal,
            'SSID' => $SSID,
            'MAC' => $MAC,
            'RSSID_SIGNAL' => $RSSID_SIGNAL,
            'Channel' => $Channel,
            'Data_Rate' => $Data_Rate,
            'Frequency' => $Frequency,
            'Status_Upload' => $Status_Upload,
            'Status_Download' => $Status_Download,
        );
        $where = array(
            'ID' => $ID
        );
        $this->M_data_history->input_data($data,'data_hasil');
        redirect('Crud_hasil/index');
    }
    function edit($ID){
        $where = array('ID' => $ID);
        $data['data_hasil'] = $this->M_data_hasil->edit_data($where,'data_hasil')->result();
        $this->load->view('V_edit_hasil',$data);
    }
    function update(){
        $ID = $this->input->post('ID');
        $Tanggal = $this->input->post('Tanggal');
        $SSID= $this->input->post('SSID');
        $MAC= $this->input->post('MAC');
        $RSSI_SIGNAL = $this->input->post('RSSI_SIGNAL');
        $Channel = $this->input->post('Channel');
```

```

        $Data_Rate = $this->input->post('Data_Rate');
        $Frequency = $this->input->post('Frequency');
        $Status_Upload = $this->input->post('Status_Upload');
        $Status_Download = $this->input->post('Status_Download');
        $data = array(
            'Tanggal' => $Tanggal,
            'SSID' => $SSID,
            'MAC' => $MAC,
            'RSSI_SIGNAL' => $RSSI_SIGNAL,
            'Data_Rate' => $Data_Rate,
            'Frequency' => $Frequency,
            'Status_Upload' => $Status_Upload,
            'Status_Download' => $Status_Download,
        );
        $where = array(
            'ID' => $ID
        );
        $this->M_data_hasil->update_data($where,$data,'data_hasil');
        redirect('Crud_hasil/index');
    }
    function hapus($ID){
        $where = array('ID' => $ID);
        $this->M_data_hasil->hapus_data($where,'data_hasil');
        redirect('Crud_hasil/index');
    }
}

```

- **Config.php**

```

<?php
defined('BASEPATH') OR exit('No direct script access allowed');
$config['base_url'] = 'http://www.telkom15.com/rionaalpeni/';
$config['index_page'] = '';
$config['uri_protocol'] = 'REQUEST_URI';
$config['url_suffix'] = '';
$config['language'] = 'english';
$config['charset'] = 'UTF-8';
$config['enable_hooks'] = FALSE;
$config['subclass_prefix'] = 'MY_';
$config['composer_autoload'] = FALSE;
$config['permitted_uri_chars'] = 'a-z 0-9~%.:_-\'!';
$config['enable_query_strings'] = FALSE;
$config['controller_trigger'] = 'c';
$config['function_trigger'] = 'm';
$config['directory_trigger'] = 'd';
$config['allow_get_array'] = TRUE;
$config['log_threshold'] = 0;
$config['log_path'] = '';
$config['log_file_extension'] = '';
$config['log_file_permissions'] = 0644;
$config['log_date_format'] = 'Y-m-d H:i:s';
$config['error_views_path'] = '';
$config['cache_path'] = '';
$config['cache_query_string'] = FALSE;
$config['encryption_key'] = 'mykey';
$config['sess_driver'] = 'files';
$config['sess_cookie_name'] = 'ci_session';
$config['sess_expiration'] = 7200;
$config['sess_save_path'] = NULL;
$config['sess_match_ip'] = FALSE;
$config['sess_time_to_update'] = 300;
$config['sess_regenerate_destroy'] = FALSE;

```



```

$config['cookie_prefix'] = "";
$config['cookie_domain'] = "";
$config['cookie_path'] = '/';
$config['cookie_secure'] = FALSE;
$config['cookie_httponly'] = FALSE;
$config['standardize_newlines'] = FALSE;
$config['csrf_protection'] = FALSE;
$config['csrf_token_name'] = 'csrf_test_name';
$config['csrf_cookie_name'] = 'csrf_cookie_name';
$config['csrf_expire'] = 7200;
$config['csrf_regenerate'] = TRUE;
$config['csrf_exclude_uris'] = array();
$config['compress_output'] = FALSE;
$config['time_reference'] = 'local';
$config['rewrite_short_tags'] = FALSE;
$config['proxy_ips'] = "";

```

- Database.php

```

<?php
defined('BASEPATH') OR exit('No direct script access allowed');
$active_group = 'default';
$query_builder = TRUE;

$db['default'] = array(
    'dsn' => "",
    'hostname' => 'localhost',
    'username' => 'telkomco_rionaalpeni',
    'password' => 'rionaalpeni062715',
    'database' => 'telkomco_db_monwifi',
    'dbdriver' => 'mysqli',
    'dbprefix' => "",
    'pconnect' => FALSE,
    'db_debug' => (ENVIRONMENT !== 'production'),
    'cache_on' => FALSE,
    'cachedir' => "",
    'char_set' => 'utf8',
    'dbcollat' => 'utf8_general_ci',
    'swap_pre' => "",
    'encrypt' => FALSE,
    'compress' => FALSE,
    'stricton' => FALSE,
    'failover' => array(),
    'save_queries' => TRUE
);

```

- Hasil2.php

```

<?php
include_once "koneksi.php";
class usr{}

$SSID = $_POST["SSID"];
$MAC = $_POST["MAC"];
$RSSI_Signal = $_POST["RSSI_Signal"];
$Data_Rate = $_POST["Data_Rate"];
$Frequency = $_POST["Frequency"];
$stts_upload = $_POST["Status_Upload"];
$Status_Download = $_POST["Status_Download"];
$User = $_POST["User"];

if ((empty($SSID))) {
    $response = new usr();
    $response->success = 2;
    die(json_encode($response));
}

```

```

} else if ((empty($MAC)) {
    $response = new usr();
    $response->success = 3;
    die(json_encode($response));

} else if ((empty($RSSI_Signal)) {
    $response = new usr();
    $response->success = 4;
    die(json_encode($response));
} else if ((empty($Data_Rate)) {
    $response = new usr();
    $response->success = 5;
    die(json_encode($response));

} else if ((empty($Frequency)) {
    $response = new usr();
    $response->success = 6;
    die(json_encode($response));

} else if ((empty($Status_Download)) {
    $response = new usr();
    $response->success = 8;
    die(json_encode($response));

} else if ((empty($User)) {
    $response = new usr();
    $response->success = 8;
    die(json_encode($response));
}

else{
    $query = mysqli_query($con, "insert into data_hasil ( User, SSID, MAC,RSSI_SIGNAL, Data_Rate,
Frequency, Status_Upload, Status_Download) VALUES('".$User."', '".$SSID."', '".$MAC ." ', '".$RSSI_Signal ."
' , '".$Data_Rate ." ', '".$Frequency ." ', '".$stts_upload ." ', '".$Status_Download ." ' ) ");

if ($query){
    $response = new usr();
    $response->success = 1;
    die(json_encode($response));
}else{
    $response = new usr();
    $response->success = 0;
    die(json_encode($response));
}
mysqli_close($con);
}
?>

```

- Isi.php

```

<?php
if($_SERVER['REQUEST_METHOD']=='POST'){

    $ID = $_POST['ID'];
    $originalImgName= $_FILES['filename']['name'];
    $tempName= $_FILES['filename']['tmp_name'];
    $folder="uploadedFiles/";
    if(move_uploaded_file($tempName,$folder.$originalImgName.".jpg")){
        $query = "update tabeluser set Photo='".$originalImgName.".jpg' where ID = '$ID'";
        if(mysqli_query($con,$query)){
            echo json_encode(array( "status" => "true","message" => "Successfully file
added!", "photo"=>$originalImgName.".jpg" ));
        }

    }else{

```



```

    } else {
        $response = new usr();
        $response->success = 0;
        $response->message = "Username atau password salah";
        die(json_encode($response));
    }
    mysqli_close($con);
?>

```

- Profil.php

```

<?php
    include_once "koneksi.php";
    class usr{}

    $Nama = $_POST["Nama"];
    $Username = $_POST["Username"];
    $Password = $_POST["Password"];
    $Email = $_POST["Email"];

    if ((empty($Username)) {
        $response = new usr();
        $response->success = 0;
        die(json_encode($response));
    } else if ((empty($Email)) {
        $response = new usr();
        $response->success = 0;
        die(json_encode($response));
    } else if ((empty($Nama)) {
        $response = new usr();
        $response->success = 0;
        die(json_encode($response));
    } else if ((empty($Password)) {
        $response = new usr();
        $response->success = 0;
        die(json_encode($response));

    } else {
        if (!empty($Email) && $Password == $confirm_password){
            $num_rows = mysqli_num_rows(mysqli_query($con, "SELECT * FROM tabeluser
WHERE Email='".$Email."'"));

if ($num_rows == 0){

            $query = mysqli_query($con, "INSERT INTO tabeluser ( Nama, Username, Password, Email) VALUES( ' "
. $Nama ." ,'" . $Username ." ,'" . $Password ." ,'" . $Email ." ' ) ");
            if ($query){
                $response = new usr();
                $response->success = 1;
                die(json_encode($response));
            } else {
                $response = new usr();
                $response->success = 0;
                die(json_encode($response));
            }
        } else {
            $response = new usr();
            $response->success = 0;
            $response->message = "Username sudah ada";
            die(json_encode($response));
        }
    }
}

```

```
mysqli_close($con);
?>
```

- Register.php

```
<?php
include_once "koneksi.php";
class usr{}

$username = $_POST["Username"];
$password = $_POST["Password"];
$name = $_POST["Nama"];
$email = $_POST["Email"];
$confirm_password = $_POST["confirm_password"];

if ((empty($username)) {
    $response = new usr();
    $response->success = 0;
    $response->message = "Kolom username tidak boleh kosong";
    die(json_encode($response));
} else if ((empty($email)) {
    $response = new usr();
    $response->success = 0;
    $response->message = "Kolom password tidak boleh kosong";
    die(json_encode($response));
} else if ((empty($name)) {
    $response = new usr();
    $response->success = 0;
    $response->message = "Kolom password tidak boleh kosong";
    die(json_encode($response));
} else if ((empty($password)) {
    $response = new usr();
    $response->success = 0;
    $response->message = "Kolom password tidak boleh kosong";
    die(json_encode($response));
} else if ((empty($confirm_password) || $password != $confirm_password) {
    $response = new usr();
    $response->success = 0;
    $response->message = "Konfirmasi password tidak sama";
    die(json_encode($response));

} else {
    if (!empty($email) && $password == $confirm_password){
        $num_rows = mysqli_num_rows(mysqli_query($con, "SELECT * FROM tabeluser
WHERE Email='".$email."'"));

if ($num_rows == 0){
    $query = mysqli_query($con, "INSERT INTO tabeluser ( Nama, Username, Password, Email) VALUES(' "
. $name ."', '".$username."', '".$password."', '".$email ." ' )");
    if ($query){
        $response = new usr();
        $response->success = 1;
        $response->message = "Register berhasil, silahkan login.";
        die(json_encode($response));

    } else {
        $response = new usr();
        $response->success = 0;
        $response->message = "Username sudah ada 2";
        die(json_encode($response));
    }
} else {
    $response = new usr();
```

```
        $response->success = 0;
        $response->message = "Username sudah ada 1";
        die(json_encode($response));
    }
}
mysqli_close($con);
?>
```

- **Wifi.php**

```
<?php
    header('Content-Type: application/json');
    include_once "koneksi.php";
    class usr{}

    $query = mysqli_query($con, "SELECT * FROM data_wifi");
    $data = array();
    while($row = mysqli_fetch_assoc($query)){
        $data[] = $row;
    }
    echo json_encode($data);
    mysqli_close($con);
    exit();
?>
```

Lampiran coding Android

- Manifest.java

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.riona.wifimonitoring">

    <uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />
    <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE" />
    <uses-permission android:name="android.permission.INTERNET" />
    <uses-permission android:name="android.permission.ACCESS_WIFI_STATE" />
    <uses-permission android:name="android.permission.CHANGE_WIFI_STATE" />
    <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION" />
    <uses-permission android:name="android.permission.CHANGE_WIFI_STATE" />
    <uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION" />

    <application
        android:name="com.example.riona.wifimonitoring.bantuan.MyApplication"
        android:allowBackup="true"
        android:icon="@mipmap/icon_wifi"
        android:label="WifiMon"
        android:roundIcon="@mipmap/icon_wifi"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">

        <activity android:name=".splash">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>

        </activity>
        <activity android:name=".login_activity"></activity>
        <activity android:name=".menu_utama"></activity>
        <activity android:name=".hasil"></activity>
        <activity android:name=".Register"></activity>
        <activity android:name=".MainActivity_hasil"></activity>
        <activity android:name=".WifiFragment_listwifi"></activity>
        <activity android:name=".MainActivity_BW"></activity>
        <activity android:name=".MainActivity_history"></activity>
        <activity android:name=".profil"></activity>
        <activity android:name=".informasi"></activity>

    </application>
</manifest>
```

- ApplicationController.java

```
package com.example.riona.wifimonitoring.app;

import android.app.Application;
import android.text.TextUtils;
import com.android.volley.Request;
import com.android.volley.RequestQueue;
import com.android.volley.toolbox.Volley;
public class ApplicationController extends Application {
    public static final String TAG = ApplicationController.class.getSimpleName();
    private RequestQueue mRequestQueue;
    private static ApplicationController mInstance;

    @Override
    public void onCreate() {
        super.onCreate();
        mInstance = this;
    }
    public static synchronized ApplicationController getInstance() {
        return mInstance;
    }
    public RequestQueue getRequestQueue() {
        if (mRequestQueue == null) {
```

```

        mRequestQueue = Volley.newRequestQueue(getApplicationContext());
    }
    return mRequestQueue;
}

public <T> void addToRequestQueue(Request<T> req, String tag) {
    req.setTag(TextUtils.isEmpty(tag) ? TAG : tag);
    getRequestQueue().add(req);
}

public <T> void addToRequestQueue(Request<T> req) {
    req.setTag(TAG);
    getRequestQueue().add(req);
}

public void cancelPendingRequests(Object tag) {
    if (mRequestQueue != null) {
        mRequestQueue.cancelAll(tag);
    }
}
}

```

- AppConfig.java

```
package com.example.riona.wifimonitoring.bantuan;
```

```

import android.content.pm.PackageManager;
import android.support.annotation.NonNull;
import java.text.NumberFormat;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.Date;
import java.util.Locale;
public class AppConfig {

    public static String SERVER= "http://www.telkom15.com/rionaalpeni/";
    public static String SERVER_DATA = SERVER + "android/";
    public static String SERVER_FOTO_AKUN = SERVER_DATA + "uploadedFiles/";
    public final static String bulan[] = new String[]{"Januari", "Februari", "Maret", "April", "Mei", "Juni",
        "Juli", "Agustus", "September", "Oktober", "November", "Desember"};
    public final static String bulanShort[] = new String[]{"Jan", "Feb", "Mar", "Apr", "Mei", "Jun",
        "Jul", "Ags", "Spt", "Okt", "Nov", "Des"};
    public static String number(long harga){
        NumberFormat num = NumberFormat.getInstance(Locale.GERMAN);
        return num.format(harga);
    }
    public static String NullString(Object obj){
        if (obj == null){
            return "";
        }else if (obj.toString().equalsIgnoreCase("null")){
            return "";
        }
        return obj.toString();
    }
    public static Long NullNumber(Object obj){
        if (obj == null || AppConfig.NullString(obj).equalsIgnoreCase("")){
            return Long.parseLong("0");
        }
        return Long.parseLong(obj.toString());
    }
    public static String getDate(){
        Calendar c = Calendar.getInstance();
        SimpleDateFormat curDate = new SimpleDateFormat("yyyy-MM-dd");
        return curDate.format(c.getTime());
    }
    public static String getDate(String DATE){
        SimpleDateFormat fmt = new SimpleDateFormat("dd/MM/yyyy");
        try {
            Date mDate = fmt.parse(DATE);
            SimpleDateFormat fm = new SimpleDateFormat("yyyy-MM-dd");
            return fm.format(mDate);
        } catch (ParseException e) {
            return DATE;
        }
    }
}

```



```

    }
}
public static String getDateTIme(){
    Calendar c = Calendar.getInstance();
    SimpleDateFormat curDate = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
    return curDate.format(c.getTime());
}
public static String getDateTIme1(){
    Calendar c = Calendar.getInstance();
    SimpleDateFormat curDate = new SimpleDateFormat("dd-MM-yyyy HH:mm:ss");
    return curDate.format(c.getTime());
}
public static Long getDateTImeMilis(){
    Calendar c = Calendar.getInstance();
    return c.getTimeInMillis();
}
public static String getTime(){
    Calendar c = Calendar.getInstance();
    SimpleDateFormat curDate = new SimpleDateFormat("HH:mm:ss");
    return curDate.format(c.getTime());
}
public static boolean hasAllPermissionsGranted(@NonNull int[] grantResults) {
    for (int grantResults : grantResults) {
        if (grantResults == PackageManager.PERMISSION_DENIED) {
            return false;
        }
    }
    return true;
}
}
- AppSingleton.java

```

```

package com.example.riona.wifimonitoring.bantuan;
import android.content.Context;
import com.android.volley.Request;
import com.android.volley.RequestQueue;
import com.android.volley.toolbox.Volley;

public class AppSingleton {
    private static AppSingleton mAppSingletonInstance;
    private RequestQueue mRequestQueue;
    private static Context mContext;
    private AppSingleton(Context context) {
        mContext = context;
        mRequestQueue = getRequestQueue();
    }
    public static synchronized AppSingleton getInstance(Context context) {
        if (mAppSingletonInstance == null) {
            mAppSingletonInstance = new AppSingleton(context);
        }
        return mAppSingletonInstance;
    }
    public RequestQueue getRequestQueue() {
        if (mRequestQueue == null) {
            mRequestQueue = Volley.newRequestQueue(mContext.getApplicationContext());
        }
        return mRequestQueue;
    }
    public <T> void addToRequestQueue(Request<T> req, String tag) {
        req.setTag(tag);
        getRequestQueue().add(req);
    }
}
- FilePath.java

```

```

package com.example.riona.wifimonitoring.bantuan;

import android.annotation.SuppressLint;
import android.content.ContentUris;
import android.content.Context;
import android.database.Cursor;

```

```

import android.net.Uri;
import android.os.Build;
import android.os.Environment;
import android.provider.DocumentsContract;
import android.provider.MediaStore;

public class FilePath
{
    @SuppressWarnings("NewApi")
    public static String getPath(final Context context, final Uri uri)
    {
        final boolean isKitKat = Build.VERSION.SDK_INT >= Build.VERSION_CODES.KITKAT;
        if (isKitKat && DocumentsContract.isDocumentUri(context, uri)) {
            if (isExternalStorageDocument(uri)) {
                final String docId = DocumentsContract.getDocumentId(uri);
                final String[] split = docId.split(":");
                final String type = split[0];
                if ("primary".equalsIgnoreCase(type)) {
                    return Environment.getExternalStorageDirectory() + "/" + split[1];
                }
            }
            else if (isDownloadsDocument(uri)) {
                final String id = DocumentsContract.getDocumentId(uri);
                final Uri contentUri = ContentUris.withAppendedId(
                    Uri.parse("content://downloads/public_downloads"), Long.valueOf(id));
                return getDataColumn(context, contentUri, null, null);
            }
            else if (isMediaDocument(uri)) {
                final String docId = DocumentsContract.getDocumentId(uri);
                final String[] split = docId.split(":");
                final String type = split[0];

                Uri contentUri = null;
                if ("image".equals(type)) {
                    contentUri = MediaStore.Images.Media.EXTERNAL_CONTENT_URI;
                }
                else if ("video".equals(type)) {
                    contentUri = MediaStore.Video.Media.EXTERNAL_CONTENT_URI;
                }
                else if ("audio".equals(type)) {
                    contentUri = MediaStore.Audio.Media.EXTERNAL_CONTENT_URI;
                }
                final String selection = "_id=?";
                final String[] selectionArgs = new String[] {
                    split[1]
                };

                return getDataColumn(context, contentUri, selection, selectionArgs);
            }
        }
        else if ("content".equalsIgnoreCase(uri.getScheme())) {
            if (isGooglePhotosUri(uri))
                return uri.getLastPathSegment();

            return getDataColumn(context, uri, null, null);
        }
        else if ("file".equalsIgnoreCase(uri.getScheme())) {
            return uri.getPath();
        }
        return null;
    }

    public static String getDataColumn(Context context, Uri uri, String selection,
        String[] selectionArgs) {

        Cursor cursor = null;
        final String column = "_data";
        final String[] projection = {
            column
        };
        try {
            cursor = context.getContentResolver().query(uri, projection, selection, selectionArgs,
                null);
            if (cursor != null && cursor.moveToFirst()) {
                final int index = cursor.getColumnIndexOrThrow(column);
            }
        }
    }
}

```

```

        return cursor.getString(index);
    }
} finally {
    if (cursor != null)
        cursor.close();
}
return null;
}

public static boolean isExternalStorageDocument(Uri uri) {
    return "com.android.externalstorage.documents".equals(uri.getAuthority());
}
public static boolean isDownloadsDocument(Uri uri) {
    return "com.android.providers.downloads.documents".equals(uri.getAuthority());
}

public static boolean isMediaDocument(Uri uri) {
    return "com.android.providers.media.documents".equals(uri.getAuthority());
}

public static boolean isGooglePhotosUri(Uri uri) {
    return "com.google.android.apps.photos.content".equals(uri.getAuthority());
}
}

```

- **MyApplication.java**

```

package com.example.riona.wifimonitoring.bantuan;
import android.app.Application;
import android.text.TextUtils;
import com.android.volley.Request;
import com.android.volley.RequestQueue;
import com.android.volley.toolbox.Volley;

public class MyApplication extends Application {

    public static final String TAG = MyApplication.class
        .getSimpleName();

    private RequestQueue mRequestQueue;
    private static MyApplication mInstance;

    @Override
    public void onCreate() {
        super.onCreate();
        mInstance = this;
    }
    public static synchronized MyApplication getInstance() {
        return mInstance;
    }
    public RequestQueue getRequestQueue() {
        if (mRequestQueue == null) {
            mRequestQueue = Volley.newRequestQueue(getApplicationContext());
        }
        return mRequestQueue;
    }
    public <T> void addToRequestQueue(Request<T> req, String tag) {
        req.setTag(TextUtils.isEmpty(tag) ? TAG : tag);
        getRequestQueue().add(req);
    }
    public <T> void addToRequestQueue(Request<T> req) {
        req.setTag(TAG);
        getRequestQueue().add(req);
    }
    public void cancelPendingRequests(Object tag) {
        if (mRequestQueue != null) {
            mRequestQueue.cancelAll(tag);
        }
    }
}

```

- **VolleyMultipartRequest.php**

```

package com.example.riona.wifimonitoring.bantuan;

import com.android.volley.AuthFailureError;
import com.android.volley.NetworkResponse;
import com.android.volley.ParseError;
import com.android.volley.Request;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.HttpHeaderParser;
import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.io.DataOutputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.UnsupportedEncodingException;
import java.util.Map;

public class VolleyMultipartRequest extends Request<NetworkResponse> {

    private final String twoHyphens = "--";
    private final String lineEnd = "\r\n";
    private final String boundary = "apiclient-" + System.currentTimeMillis();

    private Response.Listener<NetworkResponse> mListener;
    private Response.ErrorListener mErrorListener;
    private Map<String, String> mHeaders;

    public VolleyMultipartRequest(int method, String url,
                                  Response.Listener<NetworkResponse> listener,
                                  Response.ErrorListener errorListener) {
        super(method, url, errorListener);
        this.mListener = listener;
        this.mErrorListener = errorListener;
    }

    @Override
    public Map<String, String> getHeaders() throws AuthFailureError {
        return (mHeaders != null) ? mHeaders : super.getHeaders();
    }

    @Override
    public String getBodyContentType() {
        return "multipart/form-data;boundary=" + boundary;
    }

    @Override
    public byte[] getBody() throws AuthFailureError {
        ByteArrayOutputStream bos = new ByteArrayOutputStream();
        DataOutputStream dos = new DataOutputStream(bos);
        try {
            Map<String, String> params = getParams();
            if (params != null && params.size() > 0) {
                textParse(dos, params, getParamsEncoding());
            }
            Map<String, DataPart> data = getByteData();
            if (data != null && data.size() > 0) {
                dataParse(dos, data);
            }
            dos.writeBytes(twoHyphens + boundary + twoHyphens + lineEnd);

            return bos.toByteArray();
        } catch (IOException e) {
            e.printStackTrace();
        }
        return null;
    }

    protected Map<String, DataPart> getByteData() throws AuthFailureError, FileNotFoundException {
        return null;
    }

    @Override
    protected Response<NetworkResponse> parseNetworkResponse(NetworkResponse response) {
        try {
            return Response.success(
                response,
                HttpHeaderParser.parseCacheHeaders(response));
        } catch (Exception e) {
        }
    }
}

```

```

        return Response.error(new ParseError(e));
    }
}
@Override
protected void deliverResponse(NetworkResponse response) {
    mListener.onResponse(response);
}
@Override
public void deliverError(VolleyError error) {
    mErrorListener.onErrorResponse(error);
}
private void textParse(DataOutputStream dataOutputStream, Map<String, String> params, String encoding)
throws IOException {
    try {
        for (Map.Entry<String, String> entry : params.entrySet()) {
            buildTextPart(dataOutputStream, entry.getKey(), entry.getValue());
        }
    } catch (UnsupportedEncodingException uee) {
        throw new RuntimeException("Encoding not supported: " + encoding, uee);
    }
}
private void dataParse(DataOutputStream dataOutputStream, Map<String, DataPart> data) throws
IOException {
    for (Map.Entry<String, DataPart> entry : data.entrySet()) {
        buildDataPart(dataOutputStream, entry.getValue(), entry.getKey());
    }
}
private void buildTextPart(DataOutputStream dataOutputStream, String parameterName, String
parameterValue) throws IOException {
    dataOutputStream.writeBytes(twoHyphens + boundary + lineEnd);
    dataOutputStream.writeBytes("Content-Disposition: form-data; name=\"" + parameterName + "\"" +
lineEnd);
    dataOutputStream.writeBytes(lineEnd);
    dataOutputStream.writeBytes(parameterValue + lineEnd);
}

private void buildDataPart(DataOutputStream dataOutputStream, DataPart dataFile, String inputName)
throws IOException {
    dataOutputStream.writeBytes(twoHyphens + boundary + lineEnd);
    dataOutputStream.writeBytes("Content-Disposition: form-data; name=\"" +
inputName + "\"; filename=\"" + dataFile.getFileName() + "\"" + lineEnd);
    if (dataFile.getType() != null && !dataFile.getType().trim().isEmpty()) {
        dataOutputStream.writeBytes("Content-Type: " + dataFile.getType() + lineEnd);
    }
    dataOutputStream.writeBytes(lineEnd);
    ByteArrayInputStream fileInputStream = new ByteArrayInputStream(dataFile.getContent());
    int bytesAvailable = fileInputStream.available();
    int maxBufferSize = 1024 * 1024;
    int bufferSize = Math.min(bytesAvailable, maxBufferSize);
    byte[] buffer = new byte[bufferSize];
    int bytesRead = fileInputStream.read(buffer, 0, bufferSize);
    while (bytesRead > 0) {
        dataOutputStream.write(buffer, 0, bufferSize);
        bytesAvailable = fileInputStream.available();
        bufferSize = Math.min(bytesAvailable, maxBufferSize);
        bytesRead = fileInputStream.read(buffer, 0, bufferSize);
    }
    dataOutputStream.writeBytes(lineEnd);
}
public class DataPart {
    private String fileName;
    private byte[] content;
    private String type;

    public DataPart() {
    }
    public DataPart(String name, byte[] data) {
        fileName = name;
        content = data;
    }
    String getFileName() {
        return fileName;
    }
}
byte[] getContent() {

```

```

        return content;
    }
    String getType() {
        return type;
    }
}
}

```

- **Model_history.java**

```

package com.example.riona.wifimonitoring.model;
public class model_history {

```

```

    String ID;
    String User;
    String Tanggal;
    String SSID;
    String MAC;
    String RSSI_SIGNAL;
    String Data_Rate;
    String Frequency;
    String Status_Upload;
    String Status_Download;

```

```

    public model_history(String ID, String User, String tanggal, String SSID, String MAC, String RSSI_SIGNAL,
String data_Rate, String frequency, String status_Upload, String status_Download) {

```

```

        this.ID = ID;
        this.User = User;
        Tanggal = tanggal;
        this.SSID = SSID;
        this.MAC = MAC;
        this.RSSI_SIGNAL = RSSI_SIGNAL;
        Data_Rate = data_Rate;
        Frequency = frequency;
        Status_Upload = status_Upload;
        Status_Download = status_Download;
    } public String getID() {
        return ID;
    } public void setID(String ID) {
        this.ID = ID;
    } public String getUser() {
        return User;
    } public void setUser(String user) {
        User = user;
    } public String getTanggal() {
        return Tanggal;
    } public void setTanggal(String tanggal) {
        Tanggal = tanggal;
    } public String getSSID() {
        return SSID;
    } public void setSSID(String SSID) {
        this.SSID = SSID;
    } public String getMAC() {
        return MAC;
    } public void setMAC(String MAC) {
        this.MAC = MAC;
    } public String getRSSI_SIGNAL() {
        return RSSI_SIGNAL;
    } public void setRSSI_SIGNAL(String RSSI_SIGNAL) {
        this.RSSI_SIGNAL = RSSI_SIGNAL;
    } public String getData_Rate() {
        return Data_Rate;
    } public void setData_Rate(String data_Rate) {
        Data_Rate = data_Rate;
    } public String getFrequency() {
        return Frequency;
    } public void setFrequency(String frequency) {
        Frequency = frequency;
    } public String getStatus_Upload() {
        return Status_Upload;
    } public void setStatus_Upload(String status_Upload) {
        Status_Upload = status_Upload;
    } public String getStatus_Download() {

```

```

        return Status_Download;
    } public void setStatus_Download(String status_Download) {
        Status_Download = status_Download;
    }
}

```

- Model_profil.java

```
package com.example.riona.wifimonitoring.model;
```

```

public class model_profil {
    String Nama;
    String Username;
    String Password;
    String Email;
    String Photo;

    public model_profil(String Nama, String Username, String Password, String Email) {
        this.Nama = Nama;
        this.Username = Username;
        this.Password = Password;
        this.Email = Email;
        this.Photo = Photo;
    }

    public String getNama() {
        return Nama;
    } public void setNama(String nama) {
        Nama = nama;
    } public String getUsername() {
        return Username;
    } public void setUsername(String username) {
        Username = username;
    } public String getPassword() {
        return Password;
    } public void setPassword(String password) {
        Password = password;
    } public String getEmail() {
        return Email;
    } public void setEmail(String email) {
        Email = email;
    } public String getPhoto() {
        return Photo;
    } public void setPhoto(String photo) {
        Photo = photo; }
}

```

- Model_wifi.java

```
package com.example.riona.wifimonitoring.model;
```

```

public class model_wifi {

    String SSID;
    String MAC;
    String Password;

    public model_wifi(String SSID, String MAC, String Password) {
        this.SSID = SSID;
        this.MAC = MAC;
        this.Password = Password;
    }
    public String getSSID() {
        return SSID;
    }
    public void setSSID(String SSID) {
        this.SSID = SSID;
    }
    public String getMAC() {
        return MAC;
    }
    public void setMAC(String MAC) {
        this.MAC = MAC;
    }
    public String getPassword() {
        return Password;
    }
}

```

```

    }
    public void setPassword(String password) {
        Password = password;
    }
}

```

- **HttpDownloadTest.java**

```
package com.example.riona.wifimonitoring.test;
```

```
import java.io.InputStream;
import java.math.BigDecimal;
import java.math.RoundingMode;
import java.net.HttpURLConnection;
import java.net.URL;
import java.util.ArrayList;
import java.util.List;
```

```
public class HttpDownloadTest extends Thread {
    public String fileURL = "";
    long startTime = 0;
    long endTime = 0;
    double downloadElapsedTime = 0;
    int downloadedByte = 0;
    double finalDownloadRate = 0.0;
    boolean finished = false;
    double instantDownloadRate = 0;
    int timeout = 15;
```

```
HttpURLConnection httpConn = null;
```

```
public HttpDownloadTest(String fileURL) {
    this.fileURL = fileURL;
}

```

```
private double round(double value, int places) {
    if (places < 0) throw new IllegalArgumentException();

```

```
    BigDecimal bd;
    try {
        bd = new BigDecimal(value);
    } catch (Exception ex) {
        return 0.0;
    }
    bd = bd.setScale(places, RoundingMode.HALF_UP);
    return bd.doubleValue();
}

```

```
public double getInstantDownloadRate() {
    return instantDownloadRate;
}

```

```
public void setInstantDownloadRate(int downloadedByte, double elapsedTime) {
    if (downloadedByte >= 0) {
        this.instantDownloadRate = round(((Double) ((downloadedByte * 8) / (1000 * 1000)) / elapsedTime), 2);
    } else {
        this.instantDownloadRate = 0.0;
    }
}

```

```
public double getFinalDownloadRate() {
    return round(finalDownloadRate, 2);
}

```

```
public boolean isFinished() {
    return finished;
}

```

```
@Override
```

```
public void run() {
    URL url = null;
    downloadedByte = 0;
    int responseCode = 0;
```

```
    List<String> fileUrls = new ArrayList<>();
    fileUrls.add(fileURL + "random4000x4000.jpg");
    fileUrls.add(fileURL + "random3000x3000.jpg");
    startTime = System.currentTimeMillis();
    outer:
    for (String link : fileUrls) {
```



```

try {
    url = new URL(link);
    httpConn = (URLConnection) url.openConnection();
    responseCode = httpConn.getResponseCode();
} catch (Exception ex) {
    ex.printStackTrace();
}
try {
    if (responseCode == HttpURLConnection.HTTP_OK) {
        byte[] buffer = new byte[10240];

        InputStream inputStream = httpConn.getInputStream();
        int len = 0;
        while ((len = inputStream.read(buffer)) != -1) {
            downloadedByte += len;
            endTime = System.currentTimeMillis();
            downloadElapsedTime = (endTime - startTime) / 1000.0;
            setInstantDownloadRate(downloadedByte, downloadElapsedTime);
            if (downloadElapsedTime >= timeout) {
                break outer;
            }
        }
        inputStream.close();
        httpConn.disconnect();
    } else {
        System.out.println("Link not found...");
    }
} catch (Exception ex) {
    ex.printStackTrace();
}
}
endTime = System.currentTimeMillis();
downloadElapsedTime = (endTime - startTime) / 1000.0;
finalDownloadRate = ((downloadedByte * 8) / (1000 * 1000.0)) / downloadElapsedTime;
finished = true;
}}

```

- **HttpUploadTest.java**

```
package com.example.riona.wifimonitoring.test;
```

```
import java.io.DataOutputStream;
import java.math.BigDecimal;
import java.math.RoundingMode;
import java.net.URLConnection;
import java.net.URL;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
```

```
import static com.example.riona.wifimonitoring.test.HttpUploadTest.uploadedKByte;
public class HttpUploadTest extends Thread {
```

```

    public String fileURL = "";
    static int uploadedKByte = 0;
    double uploadElapsedTime = 0;
    boolean finished = false;
    double elapsedTime = 0;
    double finalUploadRate = 0.0;
    long startTime;

```

```

    public HttpUploadTest(String fileURL) {
        this.fileURL = fileURL;
    }

```

```

    private double round(double value, int places) {
        if (places < 0) throw new IllegalArgumentException();

```

```

        BigDecimal bd;
        try {
            bd = new BigDecimal(value);
        } catch (Exception ex) {
            return 0.0;
        }
        bd = bd.setScale(places, RoundingMode.HALF_UP);

```

```

    return bd.doubleValue();
}

public boolean isFinished() {
    return finished;
}

public double getInstantUploadRate() {
    try {
        BigDecimal bd = new BigDecimal(uploadedKByte);
    } catch (Exception ex) {
        return 0.0;
    }

    if (uploadedKByte >= 0) {
        long now = System.currentTimeMillis();
        elapsedTime = (now - startTime) / 1000.0;
        return round((Double) (((uploadedKByte / 1000.0) * 8) / elapsedTime), 2);
    } else {
        return 0.0;
    }
}

public double getFinalUploadRate() {
    return round(finalUploadRate, 2);
}

@Override
public void run() {
    try {
        URL url = new URL(fileURL);
        uploadedKByte = 0;
        startTime = System.currentTimeMillis();

        ExecutorService executor = Executors.newFixedThreadPool(4);
        for (int i = 0; i < 4; i++) {
            executor.execute(new HandlerUpload(url));
        }
        executor.shutdown();
        while (!executor.isTerminated()) {
            try {
                Thread.sleep(100);
            } catch (InterruptedException ex) {
            }
        }

        long now = System.currentTimeMillis();
        uploadElapsedTime = (now - startTime) / 1000.0;
        finalUploadRate = (Double) (((uploadedKByte / 1000.0) * 8) / uploadElapsedTime);

    } catch (Exception ex) {
        ex.printStackTrace();
    }

    finished = true;
}

class HandlerUpload extends Thread {
    URL url;
    public HandlerUpload(URL url) {
        this.url = url;
    }

    public void run() {
        byte[] buffer = new byte[150 * 1024];
        long startTime = System.currentTimeMillis();
        int timeout = 10;

        while (true) {
            try {
                HttpURLConnection conn = null;

```



```

    return items.get(location);
}public long getItemId(int position) {
    return position;
}public View getView(int position, View convertView, ViewGroup parent) {

    if (inflater == null)
        inflater = (LayoutInflater) activity
            .getSystemService(Context.LAYOUT_INFLATER_SERVICE);

    if (convertView == null)
        convertView = inflater.inflate(R.layout.isi_history, null);

    TextView txthjudul2 = (TextView) convertView.findViewById(R.id.txthjudul2);
    TextView txthSSID = (TextView) convertView.findViewById(R.id.txthSSID);
    TextView txthmac = (TextView) convertView.findViewById(R.id.txthmac);
    TextView txthrssidsignal = (TextView) convertView.findViewById(R.id.txthrssidsignal);
    TextView txthdatarate = (TextView) convertView.findViewById(R.id.txthdatarate);
    TextView txthfreq = (TextView) convertView.findViewById(R.id.txthfreq);
    TextView txthbwdown = (TextView) convertView.findViewById(R.id.txthbwdown);
    TextView txthBwUp = (TextView) convertView.findViewById(R.id.txthBwUp);

    model_history data = items.get(position);

    txthjudul2.setText(data.getTanggal());
    txthSSID.setText(""" + data.getSSID());
    txthmac.setText(""" + data.getMAC());
    txthrssidsignal.setText(data.getRSSI_SIGNAL());
    txthdatarate.setText(""" + data.getData_Rate());
    txthfreq.setText(data.getFrequency());
    txthbwdown.setText(""" + data.getStatus_Download());
    txthBwUp.setText(data.getStatus_Upload());

    return convertView; }}

```

- Adapter_profil.java

```

package com.example.riona.wifimonitoring;

import android.app.Activity;
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.TextView;
import com.example.riona.wifimonitoring.model.model_history;
import com.example.riona.wifimonitoring.model.model_profil;
import java.util.List;

public class Adapter_profil extends BaseAdapter {

    private Activity activity;
    private List<model_profil> items;
    Context mContext;
    private LayoutInflater inflater;

    public Adapter_profil(Activity activity, List<model_profil> items) {
        this.activity = activity;
        this.items = items;
    }
    private static class ViewHolder {
        TextView txtNama_pengguna;
        TextView txtPassword_pengguna;
        TextView txtEmail_pengguna;
    }
    public int getCount() {
        return items.size();
    }
    public model_profil getItem(int location) {
        return items.get(location);
    }
    public long getItemId(int position) {
        return position;
    }
    public View getView(int position, View convertView, ViewGroup parent) {
        if (inflater == null)
            inflater = (LayoutInflater) activity

```

```

        .getSystemService(Context.LAYOUT_INFLATER_SERVICE);

    if (convertView == null)
        convertView = inflater.inflate(R.layout.profil_activity, null);
    TextView txtNama_pengguna = (TextView) convertView.findViewById(R.id.txtNama_pengguna);
    TextView txtPassword_pengguna = (TextView) convertView.findViewById(R.id.txtPassword_pengguna);
    TextView txtEmail_pengguna = (TextView) convertView.findViewById(R.id.txtEmail_pengguna);

    model_profil data = items.get(position);

    txtNama_pengguna.setText(data.getNama());
    txtPassword_pengguna.setText("" + data.getPassword());
    txtEmail_pengguna.setText(data.getEmail());

    return convertView;
}

```

- hasil.java

```

package com.example.riona.wifimonitoring;

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.support.annotation.Nullable;
import android.view.View;
import android.widget.Button;

public class hasil extends Activity {
    Button btnBack;
    Button btngetBW;

    @Override
    protected void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.hasil);

        Button btngetBW;
        btngetBW=(Button) findViewById(R.id.btngetBW);
        btngetBW.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent = new Intent(hasil.this, MainActivity_BW.class);
                startActivity(intent);
                finish();
            }
        });
    }
    public void onBackPressed() {
        Intent intent = new Intent(hasil.this, menu_utama.class);
        finish();
        startActivity(intent);
    }
}

```

- Informasi.java

```

package com.example.riona.wifimonitoring;

import android.content.Intent;
import android.os.Bundle;
import android.support.annotation.Nullable;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;

public class informasi extends AppCompatActivity {
    protected void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.help);
        Intent intent;
        Button btn_regis;
        btn_regis = (Button) findViewById(R.id.btn_regis);
        btn_regis.setOnClickListener(new View.OnClickListener() {

```

```

        @Override
        public void onClick(View view) {
            Intent intent = new Intent(informasi.this, Register.class);
            startActivity(intent);
            finish();
        }
    });
}

public void onBackPressed() {
    Intent intent = new Intent(informasi.this, login_activity.class);
    finish();
    startActivity(intent);
}
}

```

- Login_activity.java

```

package com.example.riona.wifimonitoring;

import android.annotation.SuppressLint;
import android.app.ProgressDialog;
import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;
import android.net.ConnectivityManager;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageButton;
import android.widget.Toast;
import com.android.volley.Request;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.StringRequest;
import com.example.riona.wifimonitoring.app.AppController;
import com.example.riona.wifimonitoring.bantuan.MyApplication;
import com.example.riona.wifimonitoring.util.Server;
import org.json.JSONException;
import org.json.JSONObject;
import java.util.HashMap;
import java.util.Map;

public class login_activity extends AppCompatActivity {
    ProgressDialog pDialog;
    Button btn_register, btn_login ;
    EditText txt_username, txt_password;
    Intent intent;
    View view;

    int success;
    ConnectivityManager conMgr;

    private String url = Server.URL + "login.php";
    private static final String TAG = login_activity.class.getSimpleName();
    private static final String TAG_SUCCESS = "success";
    private static final String TAG_MESSAGE = "message";
    public final static String TAG_USERNAME = "Username";
    public final static String TAG_ID = "ID";
    public final static String TAG_Nama = "Nama";
    public final static String TAG_Password = "Password";
    public final static String TAG_Email = "Email";
    public final static String TAG_Photo = "Photo";

    String tag_json_obj = "json_obj_req";
    SharedPreferences sharedPreferences;
    Boolean session = false;
    public static final String my_shared_preferences = "my_shared_preferences";
    public static final String session_status = "session_status";
    private AppController AppController;

```

```

String ID, Nama, Username, Password, Email, Photo;
@SuppressLint("WrongViewCast")
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.login_activity);

    conMgr = (ConnectivityManager) getSystemService(Context.CONNECTIVITY_SERVICE);
    {
        if (conMgr.getActiveNetworkInfo() != null
            && conMgr.getActiveNetworkInfo().isAvailable()
            && conMgr.getActiveNetworkInfo().isConnected()) {
        } else {
            Toast.makeText(getApplicationContext(), "No Internet Connection",
                Toast.LENGTH_LONG).show();
        }
    }

    btn_login = (Button) findViewById(R.id.btn_login);
    btn_register = (Button) findViewById(R.id.btn_register);
    txt_username = (EditText) findViewById(R.id.txt_username);
    txt_password = (EditText) findViewById(R.id.txt_password);

    sharedPreferences = getSharedPreferences(my_shared_preferences, Context.MODE_PRIVATE);
    session = sharedPreferences.getBoolean(session_status, false);
    ID = sharedPreferences.getString(TAG_ID, null);
    Nama = sharedPreferences.getString(TAG_Nama, null);
    Username = sharedPreferences.getString(TAG_USERNAME, null);
    Password = sharedPreferences.getString(TAG_Password, null);
    Email = sharedPreferences.getString(TAG_Email, null);
    Photo = sharedPreferences.getString(TAG_Photo, null);
    Username = sharedPreferences.getString(TAG_USERNAME, null);

    if (session) {
        Intent intent = new Intent(login_activity.this, menu_utama.class);
        intent.putExtra(TAG_ID, ID);
        intent.putExtra(TAG_USERNAME, Username);
        finish();
        startActivity(intent);
    }
    btn_register.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent intent = new Intent(login_activity.this, informasi.class);
            startActivity(intent);
            finish();
        }
    });

    btn_login.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            String Username = txt_username.getText().toString();
            String Password = txt_password.getText().toString();
            if (Username.trim().length() > 0 && Password.trim().length() > 0) {
                if (conMgr.getActiveNetworkInfo() != null
                    && conMgr.getActiveNetworkInfo().isAvailable()
                    && conMgr.getActiveNetworkInfo().isConnected()) {
                    checkLogin(Username, Password);
                } else {
                    Toast.makeText(getApplicationContext(), "No Internet Connection",
                        Toast.LENGTH_LONG).show();
                }
            } else {
                // Prompt user to enter credentials
                Toast.makeText(getApplicationContext(), "Kolom tidak boleh kosong",
                    Toast.LENGTH_LONG).show();
            }
        }
    });
}

```

```

private void checkLogin(final String Username, final String Password) {
    pDialog = new ProgressDialog(this);
    pDialog.setCancelable(false);
    pDialog.setMessage("Logging in ...");
    showDialog();

    StringRequest strReq = new StringRequest(Request.Method.POST, url, new Response.Listener<String>() {

        @Override
        public void onResponse(String response) {
            Log.e(TAG, "Login Response: " + response.toString());
            hideDialog();
            try {
                JSONObject jsonObj = new JSONObject(response);
                success = jsonObj.getInt(TAG_SUCCESS);

                if (success == 1) {
                    String Username = jsonObj.getString(TAG_USERNAME);
                    String Password = jsonObj.getString(TAG_Password);
                    String ID = jsonObj.getString(TAG_ID);
                    Nama = jsonObj.getString(TAG_Nama);
                    Email = jsonObj.getString(TAG_Email);
                    Photo = jsonObj.getString(TAG_Photo);

                    Log.e("Successfully Login!", jsonObj.toString());

                    Toast.makeText(getApplicationContext(), jsonObj.getString(TAG_MESSAGE),
Toast.LENGTH_LONG).show();
                    SharedPreferences.Editor editor = sharedPreferences.edit();
                    editor.putBoolean(session_status, true);
                    editor.putString(TAG_ID, ID);
                    editor.putString(TAG_USERNAME, Username);
                    editor.putString(TAG_Nama, Nama);
                    editor.putString(TAG_Password, Password);
                    editor.putString(TAG_Email, Email);
                    editor.putString(TAG_Photo, Photo);
                    editor.commit();

                    menu_utama>Nama=Nama;
                    menu_utama>Password=Password;
                    menu_utama>Email=Email;
                    menu_utama.Username=Username;
                    menu_utama.Photo = Photo;
                    menu_utama.ID=ID;

                    Intent intent = new Intent(login_activity.this, menu_utama.class);
                    intent.putExtra(TAG_ID, ID);
                    intent.putExtra(TAG_USERNAME, Username);
                    finish();
                    startActivity(intent);
                } else {
                    Toast.makeText(getApplicationContext(),
                    jsonObj.getString(TAG_MESSAGE), Toast.LENGTH_LONG).show();
                }
            } catch (JSONException e) {
                e.printStackTrace();
            }
        }
    }, new Response.ErrorListener() {

        @Override
        public void onErrorResponse(VolleyError error) {
            Log.e(TAG, "Login Error: " + error.getMessage());
            Toast.makeText(getApplicationContext(),
            error.getMessage(), Toast.LENGTH_LONG).show();
            hideDialog();
        }
    }) {

        @Override
        protected Map<String, String> getParams() {

```



```

        Map<String, String> params = new HashMap<String, String>();
        params.put("Username", Username);
        params.put("Password", Password);
        return params;
    }
};
MyApplication.getInstance().addToRequestQueue(strReq, tag_json_obj);
}
private void showDialog() {
    if (!pDialog.isShowing())
        pDialog.show();
}
private void hideDialog() {
    if (pDialog.isShowing())
        pDialog.dismiss();
}
}

```

- MainActivity_BW.java

```

package com.example.riona.wifimonitoring;

import android.app.ProgressDialog;
import android.content.Intent;
import android.content.SharedPreferences;
import android.graphics.Color;
import android.location.Location;
import android.net.ConnectivityManager;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.util.Log;
import android.view.View;
import android.view.animation.Animation;
import android.view.animation.LinearInterpolator;
import android.view.animation.RotateAnimation;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.LinearLayout;
import android.widget.TextView;
import android.widget.Toast;
import com.android.volley.Request;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.StringRequest;
import com.example.riona.wifimonitoring.bantuan.AppConfig;
import com.example.riona.wifimonitoring.bantuan.MyApplication;
import com.example.riona.wifimonitoring.test.HttpDownloadTest;
import com.example.riona.wifimonitoring.test.HttpUploadTest;
import com.example.riona.wifimonitoring.test.PingTest;
import com.example.riona.wifimonitoring.util.Server;
import org.achartengine.ChartFactory;
import org.achartengine.GraphicalView;
import org.achartengine.model.XYMultipleSeriesDataset;
import org.achartengine.model.XYSeries;
import org.achartengine.renderer.XYMultipleSeriesRenderer;
import org.achartengine.renderer.XYSeriesRenderer;
import org.json.JSONException;
import org.json.JSONObject;

import java.text.DecimalFormat;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Map;

public class MainActivity_BW extends AppCompatActivity {
    static int position = 0;
    static int lastPosition = 0;
    GetSpeedTestHostsHandler getSpeedTestHostsHandler = null;
    HashSet<String> tempBlackList;
    PingTest pingTest;
    HttpDownloadTest downloadTest;
}

```

```

HttpUploadTest uploadTest;
Button btnsimpan;

int success;
ConnectivityManager conMgr;
private String url = AppConfig.SERVER_DATA + "hasil2.php";
private static final String TAG = MainActivity_hasil.class.getSimpleName();
private static final String TAG_SUCCESS = "success";
private static final String TAG_MESSAGE = "message";
public final static String TAG_ID = "ID";
ProgressDialog pDialog;
String tag_json_obj = "json_obj_req";

public static int data_bandwidth_upload;
public static int data_bandwidth_download;

@Override
public void onResume() {
    super.onResume();

    getSpeedTestHostsHandler = new GetSpeedTestHostsHandler();
    getSpeedTestHostsHandler.start();
}

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.bandwidth_ukur);
    final Button startButton = (Button) findViewById(R.id.startButton);
    final DecimalFormat dec = new DecimalFormat("#.##");
    startButton.setText("Begin Test");
    tempBlackList = new HashSet<>();
    getSpeedTestHostsHandler = new GetSpeedTestHostsHandler();
    getSpeedTestHostsHandler.start();

    startButton.setOnClickListener(new View.OnClickListener() {
        public void onClick(View v) {
            startButton.setEnabled(false);

            if (getSpeedTestHostsHandler == null) {
                getSpeedTestHostsHandler = new GetSpeedTestHostsHandler();
                getSpeedTestHostsHandler.start();
            }

            new Thread(new Runnable() {
                RotateAnimation rotate;
                ImageView barImageView = (ImageView) findViewById(R.id.barImageView);
                TextView pingTextView = (TextView) findViewById(R.id.pingTextView);
                TextView downloadTextView = (TextView) findViewById(R.id.downloadTextView);
                TextView uploadTextView = (TextView) findViewById(R.id.uploadTextView);

                @Override
                public void run() {
                    runOnUiThread(new Runnable() {
                        @Override
                        public void run() {
                            startButton.setText("Selecting best server based on ping...");
                        }
                    });
                }
            });
            int timeCount = 600;
            while (!getSpeedTestHostsHandler.isFinished()) {
                timeCount--;
                try {
                    Thread.sleep(100);
                } catch (InterruptedException e) {
                }
                if (timeCount <= 0) {
                    runOnUiThread(new Runnable() {
                        @Override
                        public void run() {
                            Toast.makeText(getApplicationContext(), "No Connection...",
                                Toast.LENGTH_LONG).show();
                            startButton.setEnabled(true);
                            startButton.setTextSize(16);
                        }
                    });
                }
            }
        }
    });
}

```

```

        startButton.setText("Restart Test");
    }
});
getSpeedTestHostsHandler = null;
return;
}
}
String uploadAddr = mapKey.get(findServerIndex);
final List<String> info = mapValue.get(findServerIndex);
final double distance = dist;

if (info == null) {
    runOnUiThread(new Runnable() {
        @Override
        public void run() {
            startButton.setTextSize(12);
            startButton.setText("There was a problem in getting Host Location. Try again later.");
        }
    });
    return;
}

runOnUiThread(new Runnable() {
    @Override
    public void run() {
        startButton.setTextSize(13);
        startButton.setText(String.format("", info.get(2), new
DecimalFormat("#.##").format(distance / 1000)));
    }
});

final LinearLayout chartPing = (LinearLayout) findViewById(R.id.chartPing);
XYSeriesRenderer pingRenderer = new XYSeriesRenderer();
XYSeriesRenderer.FillOutsideLine pingFill = new
XYSeriesRenderer.FillOutsideLine(XYSeriesRenderer.FillOutsideLine.Type.BOUNDS_ALL);
pingFill.setColor(Color.parseColor("#4d5a6a"));
pingRenderer.addFillOutsideLine(pingFill);
pingRenderer.setDisplayChartValues(false);
pingRenderer.setShowLegendItem(false);
pingRenderer.setColor(Color.parseColor("#4d5a6a"));
pingRenderer.setLineWidth(5);
final XYMultipleSeriesRenderer multiPingRenderer = new XYMultipleSeriesRenderer();
multiPingRenderer.setXLabels(0);
multiPingRenderer.setYLabels(0);
multiPingRenderer.setZoomEnabled(false);
multiPingRenderer.setXAxisColor(Color.parseColor("#647488"));
multiPingRenderer.setYAxisColor(Color.parseColor("#2F3C4C"));
multiPingRenderer.setPanEnabled(true, true);
multiPingRenderer.setZoomButtonsVisible(false);
multiPingRenderer.setMarginsColor(Color.argb(0x00, 0xff, 0x00, 0x00));
multiPingRenderer.addSeriesRenderer(pingRenderer);

//Init Download graphic
final LinearLayout chartDownload = (LinearLayout) findViewById(R.id.chartDownload);
XYSeriesRenderer downloadRenderer = new XYSeriesRenderer();
XYSeriesRenderer.FillOutsideLine downloadFill = new
XYSeriesRenderer.FillOutsideLine(XYSeriesRenderer.FillOutsideLine.Type.BOUNDS_ALL);
downloadFill.setColor(Color.parseColor("#4d5a6a"));
downloadRenderer.addFillOutsideLine(downloadFill);
downloadRenderer.setDisplayChartValues(false);
downloadRenderer.setColor(Color.parseColor("#4d5a6a"));
downloadRenderer.setShowLegendItem(false);
downloadRenderer.setLineWidth(5);
final XYMultipleSeriesRenderer multiDownloadRenderer = new XYMultipleSeriesRenderer();
multiDownloadRenderer.setXLabels(0);
multiDownloadRenderer.setYLabels(0);
multiDownloadRenderer.setZoomEnabled(false);
multiDownloadRenderer.setXAxisColor(Color.parseColor("#647488"));
multiDownloadRenderer.setYAxisColor(Color.parseColor("#2F3C4C"));
multiDownloadRenderer.setPanEnabled(false, false);
multiDownloadRenderer.setZoomButtonsVisible(false);
multiDownloadRenderer.setMarginsColor(Color.argb(0x00, 0xff, 0x00, 0x00));
multiDownloadRenderer.addSeriesRenderer(downloadRenderer);

```

```

//Init Upload graphic
final LinearLayout chartUpload = (LinearLayout) findViewById(R.id.chartUpload);
XYSeriesRenderer uploadRenderer = new XYSeriesRenderer();
XYSeriesRenderer.FillOutsideLine uploadFill = new
XYSeriesRenderer.FillOutsideLine(XYSeriesRenderer.FillOutsideLine.Type.BOUNDS_ALL);
uploadFill.setColor(Color.parseColor("#4d5a6a"));
uploadRenderer.addFillOutsideLine(uploadFill);
uploadRenderer.setDisplayChartValues(false);
uploadRenderer.setColor(Color.parseColor("#4d5a6a"));
uploadRenderer.setShowLegendItem(false);
uploadRenderer.setLineWidth(5);
final XYMultipleSeriesRenderer multiUploadRenderer = new XYMultipleSeriesRenderer();
multiUploadRenderer.setXLabels(0);
multiUploadRenderer.setYLabels(0);
multiUploadRenderer.setZoomEnabled(false);
multiUploadRenderer.setXAxisColor(Color.parseColor("#647488"));
multiUploadRenderer.setYAxisColor(Color.parseColor("#2F3C4C"));
multiUploadRenderer.setPanEnabled(false, false);
multiUploadRenderer.setZoomButtonsVisible(false);
multiUploadRenderer.setMarginsColor(Color.argb(0x00, 0xff, 0x00, 0x00));
multiUploadRenderer.addSeriesRenderer(uploadRenderer);

//Reset value, graphics
runOnUiThread(new Runnable() {
    @Override
    public void run() {
        pingTextView.setText("0 ms");
        chartPing.removeAllViews();
        downloadTextView.setText("0 Mbps");
        chartDownload.removeAllViews();
        uploadTextView.setText("0 Mbps");
        chartUpload.removeAllViews();
    }
});
final List<Double> pingRateList = new ArrayList<>();
final List<Double> downloadRateList = new ArrayList<>();
final List<Double> uploadRateList = new ArrayList<>();
Boolean pingTestStarted = false;
Boolean pingTestFinished = false;
Boolean downloadTestStarted = false;
Boolean downloadTestFinished = false;
Boolean uploadTestStarted = false;
Boolean uploadTestFinished = false;
//Init Test
final PingTest pingTest = new PingTest(info.get(6).replace(":8080", ""), 6);
final HttpDownloadTest downloadTest = new
HttpDownloadTest(uploadAddr.replace(uploadAddr.split("/") [uploadAddr.split("/") .length - 1], ""));
final HttpUploadTest uploadTest = new HttpUploadTest(uploadAddr);
//Tests
while (true) {
    if (!pingTestStarted) {
        pingTest.start();
        pingTestStarted = true;
    }
    if (pingTestFinished && !downloadTestStarted) {
        downloadTest.start();
        downloadTestStarted = true;
    }
    if (downloadTestFinished && !uploadTestStarted) {
        uploadTest.start();
        uploadTestStarted = true;
    }
}

//Ping Test
if (pingTestFinished) {
    //Failure
    if (pingTest.getAvgRtt() == 0) {
        System.out.println("Ping error...");
    } else {
        //Success
        runOnUiThread(new Runnable() {
            @Override
            public void run() {
                pingTextView.setText(dec.format(pingTest.getAvgRtt()) + " ms");
            }
        });
    }
}

```

```

    }
    });
} else {
    pingRateList.add(pingTest.getInstantRtt());

    runOnUiThread(new Runnable() {
        @Override
        public void run() {
            pingTextView.setText(dec.format(pingTest.getInstantRtt()) + " ms");
        }
    });

    //Update chart
    runOnUiThread(new Runnable() {
        @Override
        public void run() {
            // Creating an XYSeries for Income
            XYSeries pingSeries = new XYSeries("");
            pingSeries.setTitle("");

            int count = 0;
            List<Double> tmpLs = new ArrayList<>(pingRateList);
            for (Double val : tmpLs) {
                pingSeries.add(count++, val);
            }

            XYMultipleSeriesDataset dataset = new XYMultipleSeriesDataset();
            dataset.addSeries(pingSeries);

            GraphicalView chartView = ChartFactory.getLineChartView(getBaseContext(), dataset,
multiPingRenderer);
            chartPing.addView(chartView, 0);

        }
    });
}

//Download Test
if (pingTestFinished) {
    if (downloadTestFinished) {
        //Failure
        if (downloadTest.getFinalDownloadRate() == 0) {
            System.out.println("Download error...");
        } else {
            //Success
            runOnUiThread(new Runnable() {
                @Override
                public void run() {
                    data_bandwidth_download = (int) downloadTest.getFinalDownloadRate();
downloadTextView.setText(dec.format(downloadTest.getFinalDownloadRate()) + " Mbps");
                }
            });
        }
    } else {
        //Calc position
        double downloadRate = downloadTest.getInstantDownloadRate();
        downloadRateList.add(downloadRate);
        position = getPositionByRate(downloadRate);
        runOnUiThread(new Runnable() {
            @Override
            public void run() {
                rotate = new RotateAnimation(lastPosition, position, Animation.RELATIVE_TO_SELF,
0.5f, Animation.RELATIVE_TO_SELF, 0.5f);
                rotate.setInterpolator(new LinearInterpolator());
                rotate.setDuration(100);
                barImageView.startAnimation(rotate);
                downloadTextView.setText(dec.format(downloadTest.getInstantDownloadRate()) + "
Mbps");
            }
        });
        lastPosition = position;

        //Update chart

```

```

runOnUiThread(new Runnable() {
    @Override
    public void run() {
        // Creating an XYSeries for Income
        XYSeries downloadSeries = new XYSeries("");
        downloadSeries.setTitle("");

        List<Double> tmpLs = new ArrayList<>(downloadRateList);
        int count = 0;
        for (Double val : tmpLs) {
            downloadSeries.add(count++, val);
        }

        XYMultipleSeriesDataset dataset = new XYMultipleSeriesDataset();
        dataset.addSeries(downloadSeries);

        GraphicalView chartView = ChartFactory.getLineChartView(getBaseContext(),
dataset, multiDownloadRenderer);
        chartDownload.addView(chartView, 0);
    }
});

//Upload Test
if (downloadTestFinished) {
    if (uploadTestFinished) {
        //Failure
        if (uploadTest.getFinalUploadRate() == 0) {
            System.out.println("Upload error...");
        } else {
            //Success
            runOnUiThread(new Runnable() {
                @Override
                public void run() {
                    data_bandwidth_upload = (int) uploadTest.getFinalUploadRate();
uploadTextView.setText(dec.format(uploadTest.getFinalUploadRate()) + " Mbps");
                }
            });
        }
    } else {
        //Calc position
        double uploadRate = uploadTest.getInstantUploadRate();
        uploadRateList.add(uploadRate);
        position = getPositionByRate(uploadRate);

        runOnUiThread(new Runnable() {

            @Override
            public void run() {
                rotate = new RotateAnimation(lastPosition, position, Animation.RELATIVE_TO_SELF,
0.5f, Animation.RELATIVE_TO_SELF, 0.5f);
                rotate.setInterpolator(new LinearInterpolator());
                rotate.setDuration(100);
                barImageView.startAnimation(rotate);
                data_bandwidth_upload = (int) uploadTest.getFinalUploadRate();
uploadTextView.setText(dec.format(uploadTest.getInstantUploadRate()) + " Mbps");
            }
        });
        lastPosition = position;

        //Update chart
        runOnUiThread(new Runnable() {
            @Override
            public void run() {
                // Creating an XYSeries for Income
                XYSeries uploadSeries = new XYSeries("");
                uploadSeries.setTitle("");

                int count = 0;
                List<Double> tmpLs = new ArrayList<>(uploadRateList);
                for (Double val : tmpLs) {
                    if (count == 0) {
                        val = 0.0;
                    }
                }
            }
        });
    }
}

```

```

        uploadSeries.add(count++, val);
    }

    XYMultipleSeriesDataset dataset = new XYMultipleSeriesDataset();
    dataset.addSeries(uploadSeries);

    GraphicalView chartView = ChartFactory.getLineChartView(getBaseContext(),
dataset, multiUploadRenderer);
    chartUpload.addView(chartView, 0);
    }
    });}

    //Test bitti
    if (pingTestFinished && downloadTestFinished && uploadTest.isFinished()) {
        break;
    }
    if (pingTest.isFinished()) {
        pingTestFinished = true;
    }
    if (downloadTest.isFinished()) {
        downloadTestFinished = true;
    }
    if (uploadTest.isFinished()) {
        uploadTestFinished = true;
    }
    if (pingTestStarted && !pingTestFinished) {
        try {
            Thread.sleep(300);
        } catch (InterruptedException e) {
        }
    }
    else {
        try {
            Thread.sleep(100);
        } catch (InterruptedException e) {
        }
    }
    }
}

//Thread bitiminde button yeniden aktif ediliyor
runOnUiThread(new Runnable() {
    @Override
    public void run() {
        startButton.setEnabled(true);
        startButton.setTextSize(16);
        startButton.setText("Restart Test");
    }
});
}).start();
}
});

btnsimpan = (Button) findViewById(R.id.btnsimpan);
btnsimpan.setOnClickListener(new View.OnClickListener() {

    @Override
    public void onClick(View v) {
        try {
            // TODO Auto-generated method stub
            String SSID = MainActivity_hasil.data_ssid;
            int RSSI_signal = MainActivity_hasil.data_rssi_signal;
            int Frequency = MainActivity_hasil.data_frequency;
            int Data_Rate = MainActivity_hasil.data_data_rate;
            String MAC = MainActivity_hasil.data_mac;
            //String SSID= MainActivity_hasil.data_channel;
            int Bandwidth_Download = MainActivity_BW.data_bandwidth_download;

            int Bandwidth_Upload = MainActivity_BW.data_bandwidth_upload;
            checkHasil(SSID.toString(), "" + RSSI_signal, MAC.toString(), "" + Data_Rate, "" + Frequency, "" +
Bandwidth_Upload, "" + Bandwidth_Download);
            Toast.makeText(MainActivity_BW.this, "Data Berhasil Disimpan, Periksa History
!", Toast.LENGTH_SHORT).show();
        } catch (Exception e) {
            Toast.makeText(MainActivity_BW.this, "Harap Selesaikan Pengukuran",
Toast.LENGTH_SHORT).show();
        }
    }
});
}
});

```

```

    }
    private void checkHasil(final String SSID, final String RSSI_Signal, final String MAC, final String Data_Rate,
final String Frequency, final String Bandwidth_Upload, final String Bandwidth_Download) {
        pDialog = new ProgressDialog(this);
        pDialog.setCancelable(false);

        StringRequest strReq = new StringRequest(Request.Method.POST, url, new Response.Listener<String>() {

            @Override
            public void onResponse(String response) {
                Log.e(TAG, response.toString());
                hideDialog();

                try {
                    JSONObject jsonObj = new JSONObject(response);
                    success = jsonObj.getInt(TAG_SUCCESS);

                    // Check for error node in json
                    if (success == 1) {

                        Toast.makeText(getApplicationContext(),
                            jsonObj.getString(TAG_MESSAGE), Toast.LENGTH_LONG).show();

                    }
                } catch (JSONException e) {
                    // JSON error
                    e.printStackTrace();
                }
            }
        }, new Response.ErrorListener() {

            @Override
            public void onErrorResponse(VolleyError error) {
                Log.e(TAG, error.getMessage());
                Toast.makeText(getApplicationContext(),
                    error.getMessage(), Toast.LENGTH_LONG).show();

                hideDialog();
            }
        }) {

            @Override
            protected Map<String, String> getParams() {
                // Posting parameters to login url
                Map<String, String> params = new HashMap<String, String>();
                params.put("SSID", SSID);
                params.put("RSSI_Signal", RSSI_Signal);
                params.put("MAC", MAC);
                params.put("Data_Rate", Data_Rate);
                params.put("Frequency", Frequency);
                params.put("Status_Upload", Bandwidth_Upload);
                params.put("Status_Download", Bandwidth_Download);
                params.put("User", menu_utama.Username);

                return params;
            }
        });

        MyApplication.getInstance().addToRequestQueue(strReq, tag_json_obj);
    }

    private void showDialog() {
        if (!pDialog.isShowing())
            pDialog.show();
    }

    private void hideDialog() {
        if (pDialog.isShowing())
            pDialog.dismiss();
    }
}

```



```

public int getPositionByRate(double rate) {
    if (rate <= 1) {
        return (int) (rate * 30);

    } else if (rate <= 10) {
        return (int) (rate * 6) + 30;

    } else if (rate <= 30) {
        return (int) ((rate - 10) * 3) + 90;

    } else if (rate <= 50) {
        return (int) ((rate - 30) * 1.5) + 150;

    } else if (rate <= 100) {
        return (int) ((rate - 50) * 1.2) + 180;
    }

    return 0;
}

public void onBackPressed() {
    Intent intent = new Intent(MainActivity_BW.this, WifiFragment_listwifi.class);
    finish();
    startActivity(intent);
}
}

```

- **MainActivity_hasil.java**

```

package com.example.riona.wifimonitoring;

import android.annotation.SuppressLint;
import android.app.AlertDialog;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.DialogInterface;
import android.content.Intent;
import android.content.IntentFilter;
import android.net.wifi.ScanResult;
import android.net.wifi.WifiManager;
import android.os.Bundle;
import android.os.Process;
import android.support.v7.app.AppCompatActivity;
import android.view.Menu;
import android.view.View;
import android.widget.Button;
import android.widget.ListView;
import android.widget.SimpleAdapter;
import android.widget.TextView;
import android.widget.Toast;
import java.util.ArrayList;
import java.util.Calendar;
import java.util.Collections;
import java.util.Comparator;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

public class MainActivity_hasil extends AppCompatActivity {
    Button btnBack;
    boolean ThreadStatus = true;

    public static String data_ssid;
    public static int data_rssi_signal;
    public static String data_mac;
    public static int data_data_rate;
    public static int data_frequency;

    WifiManager wifi;
    ListView lv;
    TextView txtStatusChannel;
}

```

```

int size = 0;
List<ScanResult> results;
ArrayList<HashMap<String, String>> arraylist = new ArrayList<HashMap<String, String>>();
SimpleAdapter adapter;

private static final Map<String, String> wifichannel = new HashMap<String, String>();
static{
    wifichannel.put("2412", "2.4G Ch01");wifichannel.put("2417", "2.4G Ch02");
    wifichannel.put("2422", "2.4G Ch03");wifichannel.put("2427", "2.4G Ch04");
    wifichannel.put("2432", "2.4G Ch05");wifichannel.put("2437", "2.4G Ch06");
    wifichannel.put("2442", "2.4G Ch07");wifichannel.put("2447", "2.4G Ch08");
    wifichannel.put("2452", "2.4G Ch09");wifichannel.put("2457", "2.4G Ch10");
    wifichannel.put("2462", "2.4G Ch11");wifichannel.put("2467", "2.4G Ch12");
    wifichannel.put("2472", "2.4G Ch13");wifichannel.put("2484", "2.4G Ch14");
}

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.hasil);

    Process.setThreadPriority(Process.THREAD_PRIORITY_URGENT_DISPLAY);
    final Button getinfo = findViewById(R.id.btngetInfo);
    getinfo.setOnClickListener(new View.OnClickListener(){
        private SimpleAdapter adapter;

        @SuppressWarnings("WifiManagerLeak")
        @Override
        public void onClick(View view) {
            try {
                getinfo.setEnabled(false);
                ThreadStatus = true;
                Threading_SendInfo(ThreadStatus);
                Threading_InterfaceInfo(ThreadStatus);
            } catch (Exception e) {
                e.printStackTrace();
            }

            Toast.makeText(MainActivity_hasil.this, "Scanning..." + size, Toast.LENGTH_LONG).show();
            try {
                size = size - 1;
                while(size >= 0)
                {
                    HashMap<String, String> item = new HashMap<String, String>();
                    String CHANNEL = wifichannel.containsKey(new String("" + results.get(size).frequency))?
wifichannel.get(new String("" + results.get(size).frequency)):"5G";
                    item.put("freq", CHANNEL);
                    arraylist.add(item);
                    size--;
                    adapter.notifyDataSetChanged();
                }
                Collections.sort(arraylist, new Comparator<HashMap<String, String>>() {

                    @Override
                    public int compare(HashMap<String, String> lhs,
                        HashMap<String, String> rhs) {
                        // TODO Auto-generated method stub
                        return ((String) lhs.get("power")).compareTo((String) rhs.get("power"));
                    }
                });
                txtStatusChannel.setText(arraylist.get(0).get("ssid"));
            } catch (Exception e) {
                // TODO: handle exception
            }
        }
    });

    Button btnBack = (Button) findViewById(R.id.btnBack);
    btnBack.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent intent = new Intent(MainActivity_hasil.this, WifiFragment_listwifi.class);
            startActivity(intent);
            finish();
        }
    });
}

```

```

    }
});
Button btngetBW;
btngetBW=(Button) findViewById(R.id.btngetBW);
btngetBW.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity_hasil.this, MainActivity_BW.class);
        startActivity(intent);
        finish();
    }
});
}
public static Long getTime() {
    Calendar calendar = Calendar.getInstance();
    //Returns current time in millis
    long timeMilli2 = calendar.getTimeInMillis();
    return timeMilli2;
}
public void Threading_SendInfo(boolean statusThread) throws InterruptedException {
    final MainActivity_hasil main = this;
    Thread info = new Thread(new Runnable() {
        @Override
        public void run() {
            Process.setThreadPriority(Process.THREAD_PRIORITY_DEFAULT);
            WifiStatus_hasil wifistatus = new WifiStatus_hasil();
            String mac_field = wifistatus.GetWifi_MacAddress(main);
            Integer DataRate = wifistatus.GetWifi_DataRate(main);
            Integer freq = wifistatus.GetWifi_Freq(main);
            Integer rssi = wifistatus.GetWifi_RSSI(main);
            String ssid = wifistatus.GetWifi_SSID(main);

            UdpSocketSend_hasil socketSend = new UdpSocketSend_hasil(mac_field, ssid, freq, rssi, getTime());

            Integer Sequence = 0;
            while (ThreadStatus) {
                try {
                    Sequence++;
                    socketSend.write(wifistatus.GetWifi_MacAddress(main), wifistatus.GetWifi_SSID(main),
wifistatus.GetWifi_Freq(main), wifistatus.GetWifi_RSSI(main), wifistatus.GetWifi_DataRate(main));
                } catch (Exception e) {
                    continue;
                }
            }
        }
    });
    info.start();
}

public void Threading_InterfaceInfo(boolean statusThread) throws InterruptedException {
    final MainActivity_hasil main = this;
    Thread screen = new Thread(new Runnable() {
        @Override
        public void run() {
            TextView mac_field = findViewById(R.id.txtStatusMAC);
            TextView link_speed = findViewById(R.id.txtStatusDataRate);
            TextView freq = findViewById(R.id.txtStatusFreq);
            TextView rssi = findViewById(R.id.txtStatusRSSID);
            TextView ssid = findViewById(R.id.txtStatusSSID);
            WifiStatus_hasil wifistatus = new WifiStatus_hasil();

            Integer Sequence = 0;
            while (ThreadStatus) {
                try {
                    Thread.sleep(1000);
                    getTime();
                    mac_field.setText(wifistatus.GetWifi_MacAddress(main));
                    link_speed.setText(Integer.toString(wifistatus.GetWifi_DataRate(main)));
                    freq.setText(Integer.toString(wifistatus.GetWifi_Freq(main)));
                    rssi.setText(Integer.toString(wifistatus.GetWifi_RSSI(main)));
                    ssid.setText(wifistatus.GetWifi_SSID(main));

                    data_ssid = wifistatus.GetWifi_SSID(main);
                    data_rssi_signal= wifistatus.GetWifi_RSSI(main);
                }
            }
        }
    });
}

```

```

        data_mac = wifistatus.GetWifi_MacAddress(main);
        data_data_rate= wifistatus.GetWifi_DataRate(main);
        data_frequency = wifistatus.GetWifi_Freq(main);

    } catch (Exception e) {
        continue;
    }
}
});
screen.start();
}
}

```

- MainActivity_histroy.java

```
package com.example.riona.wifimonitoring;
```

```
import android.app.ProgressDialog;
import android.content.Intent;
import android.os.Bundle;
import android.support.design.widget.Snackbar;
import android.support.v7.app.AppCompatActivity;
import android.util.Log;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.JsonArrayRequest;
import com.example.riona.wifimonitoring.bantuan.AppConfig;
import com.example.riona.wifimonitoring.bantuan.MyApplication;
import com.example.riona.wifimonitoring.model.model_history;
import com.google.gson.Gson;
import com.google.gson.reflect.TypeToken;
import org.json.JSONArray;
import java.util.ArrayList;
import java.util.List;

```

```
public class MainActivity_history extends AppCompatActivity {
    String URL = AppConfig.SERVER_DATA + "lihat.php";
    private static final String TAG = MainActivity_history.class.getSimpleName();
    private static final String TAG_SUCCESS = "success";
    private static final String TAG_MESSAGE = "message";
    public final static String TAG_ID = "ID";
    List<model_history> dataModels;
    ListView listhistory;
    private static Adapter_history adapter;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.history);
        listhistory = (ListView) findViewById(R.id.Listhistory);
        dataModels= new ArrayList<model_history>();
        adapter = new Adapter_history(MainActivity_history.this ,dataModels);
        listhistory.setAdapter(adapter);
        ambil_history();

        listhistory.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
                model_history dataModel= dataModels.get(position);
                Snackbar.make(view,
                dataModel.getSSID()+"\n"+dataModel.getRSSI_SIGNAL()+dataModel.getMAC()+dataModel.getFrequency()+dataModel.getData_Rate()+dataModel.getStatus_Upload()+dataModel.getStatus_Download(), Snackbar.LENGTH_LONG)
                .setAction("No action", null).show();
            }
        });
    }
}

```

```

void ambil_history(){
    ProgressDialog pDialog;
    String tag_json_obj = "json_obj_req";
    JSONArrayRequest request = new JSONArrayRequest(URL + "?q="+menu_utama.Username,
        new Response.Listener<JSONArray>() {
            public void onResponse(JSONArray response) {
                List<model_history> items;
                items= new Gson().fromJson(response.toString(), new TypeToken<List<model_history>>() {
                }.getType());
                dataModels.clear();
                dataModels.addAll(items);
                adapter.notifyDataSetChanged();
            }
        }, new Response.ErrorListener() {
            @Override
            public void onErrorResponse(VolleyError error) {
                // error in getting json
                Log.e("Error: ", error.getMessage());
                Toast.makeText(MainActivity_history.this, "Error: " + error.getMessage(),
                    Toast.LENGTH_SHORT).show();
            }
        });
    MyApplication.getInstance().addToRequestQueue(request);
}

public void onBackPressed() {
    Intent intent = new Intent(MainActivity_history.this, menu_utama.class);
    finish();
    startActivity(intent);
}
}

```

- Menu_utama.java

```

package com.example.riona.wifimonitoring;

import android.app.ProgressDialog;
import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;
import android.net.ConnectivityManager;
import android.os.Bundle;
import android.support.annotation.Nullable;
import android.support.v7.app.AppCompatActivity;
import android.util.Log;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.Toast;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.JsonArrayRequest;
import com.example.riona.wifimonitoring.bantuan.MyApplication;
import com.example.riona.wifimonitoring.model.model_history;
import com.example.riona.wifimonitoring.model.model_wifi;
import com.google.gson.Gson;
import com.google.gson.reflect.TypeToken;
import org.json.JSONArray;
import java.util.LinkedList;
import java.util.List;
import static com.example.riona.wifimonitoring.login_activity.my_shared_preferences;
import static com.example.riona.wifimonitoring.login_activity.session_status;
import static com.example.riona.wifimonitoring.util.Server.URL;

public class menu_utama extends AppCompatActivity {
    public static List<model_wifi> dataModels;
    public final static String TAG_Nama = "Nama";
    public final static String TAG_Username = "Username";
    public final static String TAG_Password = "Password";
    public final static String TAG_Email = "Email";
    public final static String TAG_Photo = "Photo";
    public static String Nama;
    public static String Username;
    public static String Password;
}

```

```

public static String Email;
public static String Photo;
public static String ID;
Button btn_listwifi, btn_history, btn_profil, btn_keluar;
int success;
ConnectivityManager conMgr;
Intent intent;

private static final String TAG = menu_utama.class.getSimpleName();
private static final String TAG_SUCCESS = "success";
private static final String TAG_MESSAGE = "message";
String tag_json_obj = "json_obj_req";
ProgressDialog pDialog;
private Object Intent;

@Override
protected void onCreate(@Nullable Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.menu_utama);
    dataModels = new LinkedList<>();

    conMgr = (ConnectivityManager) getSystemService(Context.CONNECTIVITY_SERVICE);
    {
        if (conMgr.getActiveNetworkInfo() != null
            && conMgr.getActiveNetworkInfo().isAvailable()
            && conMgr.getActiveNetworkInfo().isConnected()) {
        } else {
            Toast.makeText(getApplicationContext(), "No Internet Connection",
                Toast.LENGTH_LONG).show();
        }
    }
    btn_listwifi = (Button) findViewById(R.id.btn_listwifi);
    btn_history = (Button) findViewById(R.id.btn_history);
    btn_profil = (Button) findViewById(R.id.btn_profil);
    btn_keluar = (Button) findViewById(R.id.btn_keluar);

    btn_listwifi.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent intent = new Intent(menu_utama.this, WifiFragment_listwifi.class);
            startActivity(intent);
            finish();
        }
    });

    btn_profil.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent intent = new Intent(menu_utama.this, hasil.class);
            startActivity(intent);
            finish();
        }
    });

    btn_history.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent intent = new Intent(menu_utama.this, MainActivity_history.class);
            startActivity(intent);
            finish();
        }
    });

    btn_profil.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent intent = new Intent(menu_utama.this, profil.class);
            startActivity(intent);
            finish();
        }
    });
}

```

```

        btn_keluar.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                SharedPreferences sharedPreferences = getSharedPreferences(my_shared_preferences,
Context.MODE_PRIVATE);
                SharedPreferences.Editor editor = sharedPreferences.edit();
                editor.putBoolean(session_status, false);
                editor.commit();
                Intent intent = new Intent(menu_utama.this, login_activity.class);
                startActivity(intent);
                finish();
            }
        });
        ambil_history();
    }

    void ambil_history(){
        ProgressDialog pDialog;
        String tag_json_obj = "json_obj_req";
        JSONArrayRequest request = new JSONArrayRequest(URL+"wifi.php" + "?q=",
            new Response.Listener<JSONArray>() {

                public void onResponse(JSONArray response) {
                    if (response == null) {
                        Toast.makeText(menu_utama.this, "Couldn't fetch the store items! Pleas try again.",
Toast.LENGTH_LONG).show();
                        return;
                    }
                    List<model_wifi> items;
                    items= new Gson().fromJson(response.toString(), new TypeToken<List<model_wifi>>() {
                        }.getType());

                    dataModels.clear();
                    dataModels.addAll(items);

                }, new Response.ErrorListener() {
                    @Override
                    public void onErrorResponse(VolleyError error) {
                        Log.e("Error: ", error.getMessage());
                        Toast.makeText(menu_utama.this, "Error: " + error.getMessage(), Toast.LENGTH_SHORT).show();
                    }
                }
            });

        MyApplication.getInstance().addToRequestQueue(request);
    }
}

```

- Profil.java

```

package com.example.riona.wifimonitoring;

import android.app.Activity;
import android.app.ProgressDialog;
import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;
import android.graphics.Bitmap;
import android.net.Uri;
import android.os.Bundle;
import android.provider.MediaStore;
import android.support.annotation.Nullable;
import android.support.design.widget.Snackbar;
import android.support.v4.app.Fragment;
import android.support.v7.app.AppCompatActivity;
import android.util.Log;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.Button;
import android.widget.ImageButton;
import android.widget.ImageView;
import android.widget.TextView;

```

```

import android.widget.Toast;
import com.android.volley.AuthFailureError;
import com.android.volley.DefaultRetryPolicy;
import com.android.volley.NetworkResponse;
import com.android.volley.Request;
import com.android.volley.RequestQueue;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.Volley;
import com.bumptech.glide.Glide;
import com.example.riona.wifimonitoring.bantuan.AppConfig;
import com.example.riona.wifimonitoring.bantuan.MyApplication;
import com.example.riona.wifimonitoring.bantuan.VolleyMultipartRequest;
import com.example.riona.wifimonitoring.model.model_history;
import com.example.riona.wifimonitoring.model.model_profil;
import com.google.gson.Gson;
import com.google.gson.reflect.TypeToken;
import org.json.JSONArray;
import org.json.JSONException;
import org.json.JSONObject;
import java.io.ByteArrayOutputStream;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.time.Instant;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import static android.os.Build.ID;
import static java.security.AccessController.getContext;

```

```

public class profil extends Activity {
    private RequestQueue rQueue;
    File file;
    private String upload_URL = AppConfig.SERVER_DATA + "isi.php";
    private static String photoku;
    TextView txtNama_pengguna, txtUsername_pengguna, txtPassword_pengguna, txtEmail_pengguna;
    ImageButton photo;
    Button btn_kembali;
    Intent intent;
    int success;
    String tag_json_obj = "json_obj_req";
    String TAG_SUCCESS = "success";
    String TAG_MESSAGE = "message";
    public static String Nama;
    public static String Password;
    public static String Email;
    public static String Photo;
    SharedPreferences sharedPreferences;
    public static final String my_shared_preferences = "my_shared_preferences";
    public static final String session_status = "session_status";
    public static Bitmap bitmap;
    Uri selectedImage;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.profil_activity);

        txtNama_pengguna = (TextView)findViewById(R.id.txtNama_pengguna);
        txtPassword_pengguna = (TextView)findViewById(R.id.txtPassword_pengguna);
        txtEmail_pengguna = (TextView) findViewById(R.id.txtEmail_pengguna);
        photo = (ImageButton)findViewById(R.id.photo);
        btn_kembali = findViewById(R.id.btn_kembali);
        txtNama_pengguna.setText(menu_utama.Nama);
        txtPassword_pengguna.setText(menu_utama.Password);
        txtEmail_pengguna.setText(menu_utama.Email);

        photo.setOnClickListener(new View.OnClickListener() {
            public void onClick(View v) {

```



```

        Intent pickPhoto = new Intent(Intent.ACTION_PICK,
            android.provider.MediaStore.Images.Media.EXTERNAL_CONTENT_URI);
        startActivityForResult(pickPhoto, 1);
    }
});

btn_kembali.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        sharedPreferences = getSharedPreferences (my_shared_preferences, Context.MODE_PRIVATE);
        SharedPreferences.Editor editor = sharedPreferences.edit();
        editor.putBoolean(session_status, false);
        editor.commit();
        intent = new Intent(profil.this, menu_utama.class);
        startActivity(intent);
        finish();
    }
});
if (!AppConfig.NullString(menu_utama.Photo).equalsIgnoreCase("")){
    Glide.with(this).load(AppConfig.SERVER_FOTO_AKUN + menu_utama.Photo).into(photo);
    photo.setScaleType(ImageButton.ScaleType.FIT_CENTER);
}
}
}
public void onActivityResult(int requestCode, int resultCode, Intent imageReturnedIntent) {
    super.onActivityResult(requestCode, resultCode, imageReturnedIntent);
    switch(requestCode) {
        case 0:

            if(resultCode == Activity.RESULT_OK){
                bitmap = (Bitmap) imageReturnedIntent.getExtras().get("data");
                photo.setImageBitmap(bitmap);
                photo.setScaleType(ImageView.ScaleType.FIT_XY);
                float aspectRatio = bitmap.getWidth() /
                    (float) bitmap.getHeight();
                int width = 480;
                int height = Math.round(width / aspectRatio);

                bitmap = Bitmap.createScaledBitmap(
                    bitmap, width, height, false);
                uploadImage(menu_utama.ID, bitmap);
            }

            break;
        case 1:
            if(resultCode == Activity.RESULT_OK){
                selectedImage = imageReturnedIntent.getData();
                try {
                    bitmap = MediaStore.Images.Media.getBitmap(profil.this.getContentResolver(), selectedImage);
                    photo.setImageBitmap(bitmap);

                    photo.setScaleType(ImageView.ScaleType.FIT_XY);
                    float aspectRatio = bitmap.getWidth() /
                        (float) bitmap.getHeight();
                    int width = 480;
                    int height = Math.round(width / aspectRatio);
                    bitmap = Bitmap.createScaledBitmap(
                        bitmap, width, height, false);
                    uploadImage(menu_utama.ID, bitmap);
                }catch (Exception e){

                }
            }
            break;
    }
}

@Override
public void startActivityForResult(Intent intent, int requestCode) {
    super.startActivityForResult(intent, requestCode);
}

private void uploadImage(final String file_name , final Bitmap x){

```

```

VolleyMultipartRequest volleyMultipartRequest = new VolleyMultipartRequest(Request.Method.POST,
upload_URL,
new Response.Listener<NetworkResponse>(){
    @Override
    public void onResponse(NetworkResponse response) {
        Log.d("resssssoo",new String(response.data));
        rQueue.getCache().clear();
        try {
            JSONObject jsonObject = new JSONObject(new String(response.data));

            jsonObject.toString().replace("\\\\", "");
            if (jsonObject.getString("status").equals("true")) {
                menu_utama.Photo= jsonObject.getString("photo");
                Log.e("Pengiriman Data", "onResponse: sukses" );
            }
        } catch (JSONException e) {
            e.printStackTrace();
        }
    }
},
new Response.ErrorListener() {
    @Override
    public void onErrorResponse(VolleyError error) {
        Toast.makeText(profil.this.getApplicationContext(), error.getMessage(),
Toast.LENGTH_SHORT).show();
    }
}){
    @Override
    protected Map<String, String> getParams() throws AuthFailureError {
        Map<String, String> params = new HashMap<>();
        params.put("ID", file_name);
        return params;
    }
    @Override
    protected Map<String, DataPart> getByteData() throws FileNotFoundException {
        Map<String, DataPart> params = new HashMap<>();
        Long imagename = System.currentTimeMillis();
        params.put("filename", new DataPart(file_name+"_"+imagename, getFileDataFromDrawable(x)));
        return params;
    }
};

volleyMultipartRequest.setRetryPolicy(new DefaultRetryPolicy(
    0,
    DefaultRetryPolicy.DEFAULT_MAX_RETRIES,
    DefaultRetryPolicy.DEFAULT_BACKOFF_MULT));
rQueue = Volley.newRequestQueue(profil.this);
rQueue.add(volleyMultipartRequest);
}
public byte[] getFileDataFromFile(File f){
    ByteArrayOutputStream byteArrayOutputStream = new ByteArrayOutputStream();
    byte[] b = new byte[(int) file.length()];
    try {
        FileInputStream fileInputStream = new FileInputStream(f);
        fileInputStream.read(b);
        for (int i = 0; i < b.length; i++) {
            System.out.print((char)b[i]);
        }
    } catch (FileNotFoundException e) {
        System.out.println("File Not Found.");
        e.printStackTrace();
    }
    catch (IOException e1) {
        System.out.println("Error Reading The File.");
        e1.printStackTrace();
    }
    return b;
}
public byte[] getFileDataFromDrawable(Bitmap bitmap) {
    ByteArrayOutputStream byteArrayOutputStream = new ByteArrayOutputStream();
    bitmap.compress(Bitmap.CompressFormat.PNG, 80, byteArrayOutputStream);
    return byteArrayOutputStream.toByteArray();
}
public void onBackPressed() {

```

```

        Intent intent = new Intent(profil.this, menu_utama.class);
        finish();
        startActivity(intent);
    }
}
- Register.java

```

```
package com.example.riona.wifimonitoring;
```

```

import android.app.ProgressDialog;
import android.content.Context;
import android.content.Intent;
import android.net.ConnectivityManager;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import com.android.volley.Request;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.StringRequest;
import com.example.riona.wifimonitoring.app.AppController;
import com.example.riona.wifimonitoring.bantuan.MyApplication;
import com.example.riona.wifimonitoring.util.Server;
import org.json.JSONException;
import org.json.JSONObject;
import java.util.HashMap;
import java.util.Map;

```

```
public class Register extends AppCompatActivity {
```

```

    ProgressDialog pDialog;
    Button btn_register, btn_login;
    EditText txt_email,txt_nama,txt_username, txt_password, txt_confirm_password;
    Intent intent;

```

```

    int success;
    ConnectivityManager conMgr;
    private String url = Server.URL + "register.php";
    private static final String TAG = Register.class.getSimpleName();
    private static final String TAG_SUCCESS = "success";
    private static final String TAG_MESSAGE = "message";

```

```
String tag_json_obj = "json_obj_req";
```

```
@Override
```

```

protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.register);
    conMgr = (ConnectivityManager) getSystemService(Context.CONNECTIVITY_SERVICE);
    {
        if (conMgr.getActiveNetworkInfo() != null
            && conMgr.getActiveNetworkInfo().isAvailable()
            && conMgr.getActiveNetworkInfo().isConnected()) {
        } else {
            Toast.makeText(getApplicationContext(), "No Internet Connection",
                Toast.LENGTH_LONG).show();
        }
    }
}

```

```

btn_login = (Button) findViewById(R.id.btn_login);
btn_register = (Button) findViewById(R.id.btn_register);
txt_username = (EditText) findViewById(R.id.txt_username);
txt_email = (EditText) findViewById(R.id.txt_email);
txt_password = (EditText) findViewById(R.id.txt_password);
txt_confirm_password = (EditText) findViewById(R.id.txt_confirm_password);
txt_nama=(EditText) findViewById(R.id.txt_nama);
btn_login.setOnClickListener(new View.OnClickListener() {

```

```
@Override
```

```

public void onClick(View v) {
    // TODO Auto-generated method stub
    intent = new Intent(Register.this, login_activity.class);
    finish();
    startActivity(intent);
}
});
btn_register.setOnClickListener(new View.OnClickListener() {

    @Override
    public void onClick(View v) {
        // TODO Auto-generated method stub
        String Nama = txt_nama.getText().toString();
        String Email = txt_email.getText().toString();
        String Username = txt_username.getText().toString();
        String Password = txt_password.getText().toString();
        String confirm_password = txt_confirm_password.getText().toString();
        if (conMgr.getActiveNetworkInfo() != null
            && conMgr.getActiveNetworkInfo().isAvailable()
            && conMgr.getActiveNetworkInfo().isConnected()) {
            checkRegister( Nama, Email, Username, Password, confirm_password);
        } else {
            Toast.makeText(getApplicationContext(), "No Internet Connection", Toast.LENGTH_SHORT).show();
        }
    }
});
}

private void checkRegister(final String Nama, final String Email, final String Username, final String
Password, final String confirm_password) {
    pDialog = new ProgressDialog(this);
    pDialog.setCancelable(false);
    pDialog.setMessage("Register ...");
    showDialog();
    StringRequest strReq = new StringRequest(Request.Method.POST, url, new Response.Listener<String>() {

        @Override
        public void onResponse(String response) {
            Log.e(TAG, "Register Response: " + response.toString());
            hideDialog();
            try {
                JSONObject jsonObj = new JSONObject(response);
                success = jsonObj.getInt(TAG_SUCCESS);
                // Check for error node in json
                if (success == 1) {
                    Log.e("Successfully Register!", jsonObj.toString());
                    Toast.makeText(getApplicationContext(),
                        jsonObj.getString(TAG_MESSAGE), Toast.LENGTH_LONG).show();
                    txt_nama.setText("");
                    txt_email.setText("");
                    txt_username.setText("");
                    txt_password.setText("");
                    txt_confirm_password.setText("");

                } else {
                    Toast.makeText(getApplicationContext(),
                        jsonObj.getString(TAG_MESSAGE), Toast.LENGTH_LONG).show();
                }
            } catch (JSONException e) {
                // JSON error
                e.printStackTrace();
            }
        }
    }, new Response.ErrorListener() {

        @Override
        public void onErrorResponse(VolleyError error) {
            Log.e(TAG, "Login Error: " + error.getMessage());
            Toast.makeText(getApplicationContext(),
                error.getMessage(), Toast.LENGTH_LONG).show();
            hideDialog();
        }
    }) {

```

```

    @Override
    protected Map<String, String> getParams() {
        Map<String, String> params = new HashMap<String, String>();
        params.put("Nama", Nama);
        params.put("Email", Email);
        params.put("Username", Username);
        params.put("Password", Password);
        params.put("confirm_password", confirm_password);
        return params;
    }
};
MyApplication.getInstance().addToRequestQueue(strReq, tag_json_obj);
}
private void showDialog() {
    if (!pDialog.isShowing())
        pDialog.show();
}

private void hideDialog() {
    if (pDialog.isShowing())
        pDialog.dismiss();
}

@Override
public void onBackPressed() {
    intent = new Intent(Register.this, login_activity.class);
    finish();
    startActivity(intent);
}
}

```

- Splash.java

```

package com.example.riona.wifimonitoring;
import android.content.Intent;
import android.os.Bundle;
import android.os.CountDownTimer;
import android.support.annotation.Nullable;
import android.support.v7.app.AppCompatActivity;

public class splash extends AppCompatActivity {
    @Override
    protected void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.splash);
        CountDownTimer waktu_tunggu = new CountDownTimer(3000, 3000) {
            @Override
            public void onTick(long millisUntilFinished) {
            }
            @Override
            public void onFinish() {
                Intent pindah = new Intent(splash.this,login_activity.class);
                startActivity(pindah);
            }
        };
        waktu_tunggu.start();
    }
}

```

- UdpSocketSend_hasil.java

```

package com.example.riona.wifimonitoring;

import android.content.Context;
import org.json.JSONObject;
import java.net.DatagramPacket;
import java.net.DatagramSocket;
import java.net.InetAddress;

public class UdpSocketSend_hasil {
    DatagramSocket socket;
    InetAddress address;
    String RSSI;
}

```

```

String SSID;
Integer FREQ;
Integer DATARATE;

public UdpSocketSend_hasil(String RSSI, String SSID, Integer FREQ, Integer DATARATE, Long time) {
    this.RSSI= RSSI;
    this.SSID = SSID;
    this.FREQ = FREQ;
    this.DATARATE = DATARATE;
}

public void write(String context, String RSSI, int SSID, Integer FREQ, Integer DATARATE) throws Exception{
    byte[] buf;
    JSONObject msg1 = new JSONObject();
    msg1.put("BSSID", RSSI);
    msg1.put("SSID", SSID);
    msg1.put("frequency", FREQ);
    msg1.put("Signal", DATARATE);
}
}

```

- WifiFragment_listwifi.java

```

package com.example.riona.wifimonitoring;
import android.Manifest;
import android.annotation.SuppressLint;
import android.app.Activity;
import android.app.AlertDialog;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.DialogInterface;
import android.content.Intent;
import android.content.IntentFilter;
import android.content.pm.PackageManager;
import android.net.wifi.ScanResult;
import android.net.wifi.WifiConfiguration;
import android.net.wifi.WifiManager;
import android.os.Build;
import android.os.Bundle;
import android.support.annotation.Nullable;
import android.support.v7.widget.LinearLayoutManager;
import android.support.v7.widget.RecyclerView;
import android.util.Log;
import android.view.LayoutInflater;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
public class WifiFragment_listwifi extends Activity {

Intent intent;
    public class device {
        public String getCapabilities() {
            return capabilities;
        }
        public void setCapabilities(String capabilities) {
            this.capabilities = capabilities;
        }
    }

    String capabilities;
    CharSequence name;
    CharSequence mac;
    int rssi;
    public void setMac(CharSequence mac) {
        this.mac = mac;
    }public CharSequence getMac() {
        return mac;
    }public void setRssi(int rssi) {
        this.rssi = rssi;
    }
}

```

```

}public int getRssi() {
    return rssi;
}public void setName(CharSequence name) {
    this.name = name;
}public CharSequence getName() {
    return name;
}
}

final private int REQUEST_CODE_ASK_MULTIPLE_PERMISSIONS = 125;
List<ScanResult> wifiList;
private WifiManager wifi;
List<device> values = new ArrayList<device>();
int netCount = 0;
RecyclerView recyclerView;
WifiScanAdapter_masukanpass wifiScanAdapter;
private static String TAG="WifiFragment";
private String password=null;

@Override
protected void onCreate(@Nullable Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.scan_wifi);
    Button btnScan = (Button) findViewById(R.id.wifiScan);
    wifi = (WifiManager)this.getSystemService(Context.WIFI_SERVICE);
    //check wifi enavled or not
    if (wifi.isWifiEnabled() == false) {
        Toast.makeText(this, "Wifi is disable enabling...", Toast.LENGTH_SHORT).show();
        wifi.setWifiEnabled(true);
    }
    //register Broadcast receiver
    registerReceiver(new BroadcastReceiver() {
        @Override
        public void onReceive(Context context, Intent intent) {
            wifiList = wifi.getScanResults();
            netCount = wifiList.size();
            //wifiScanAdapter.notifyDataSetChanged();
            Log.e("Wifi", "Total Wifi Network" + netCount);
        }
    }, new IntentFilter(WifiManager.SCAN_RESULTS_AVAILABLE_ACTION));
    wifiScanAdapter = new WifiScanAdapter_masukanpass(values, WifiFragment_listwifi.this);
    recyclerView = (RecyclerView)findViewById(R.id.wifiRecyclerView);
    recyclerView.setLayoutManager(new LinearLayoutManager(this));
    recyclerView.setAdapter(wifiScanAdapter);

    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.M) {
        checkandAskPermission();
    } else {
        wifi.startScan();
        values.clear();
        try {
            netCount = netCount - 1;
            while (netCount >= 0) {
                device d = new device();
                d.setName(wifiList.get(netCount).SSID.toString());
                d.setMac(wifiList.get(netCount).BSSID.toString());
                d.setRssi(wifiList.get(netCount).level);
                Log.e("WiFi", d.getName().toString());
                Log.e("BSSID", d.getName().toString());
                Log.e("RSSI", "" + d.getRssi());

                values.add(d);
                wifiScanAdapter.notifyDataSetChanged();
                netCount = netCount - 1;
            }
        } catch (Exception e) {
            Log.d("Wifi", e.getMessage());
        }
    }
    btnScan.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {

```

```

wifi.startScan();
values.clear();
try {
    netCount=netCount-1;
    while(netCount>=0){
        device d= new device();
        d.setName(wifiList.get(netCount).SSID.toString());
        d.setMac(wifiList.get(netCount).BSSID.toString());
        d.setRssi(wifiList.get(netCount).level);
        Log.e("WiFi", d.getName().toString());
        Log.e("BSSID", d.getMac().toString());
        Log.e("RSSI", "" + d.getRssi());

        values.add(d);
        wifiScanAdapter.notifyDataSetChanged();
        netCount=netCount -1;
    }
}
catch (Exception e){
    Log.e("WiFi", e.getMessage());
}
});

wifiScanAdapter.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

        final device d=(device)v.findViewById(R.id.ssid_name).getTag();
        Log.d(TAG, "Selected Network is "+d.getName());

        LayoutInflater li = LayoutInflater.from(WifiFragment_listwifi.this);
        View promptsView = li.inflate(R.layout.masukan_pass, null);
        android.support.v7.app.AlertDialog.Builder alertDialogBuilder = new
android.support.v7.app.AlertDialog.Builder(
        WifiFragment_listwifi.this);
        alertDialogBuilder.setView(promptsView);
        TextView ssidText=(TextView)promptsView.findViewById(R.id.textViewSSID);
        ssidText.setText("Connecting to "+ d.getName());
        password = "";
        for (int a = 0 ; a < menu_utama.dataModels.size() ; a++) {
            if (d.getName().equals(menu_utama.dataModels.get(a).getSSID())){
                password = menu_utama.dataModels.get(a).getPassword();
                break;
            }
        }
        TextView security=(TextView)promptsView.findViewById(R.id.textViewSecurity);
        security.setText("Security for Network is:\n" + d.getCapabilities());
        alertDialogBuilder
            .setCancelable(false)
            .setPositiveButton("OK",
                new DialogInterface.OnClickListener() {
                    public void onClick(DialogInterface dialog, int id) {
                        Log.d(TAG, "Password is:" + password);
                        connectWiFi(String.valueOf(d.getName()), password, d.capabilities);
                        Intent intent = new Intent(WifiFragment_listwifi.this, MainActivity_hasil.class);
                        startActivity(intent);
                        finish();
                    }
                })
            .setNegativeButton("Cancel",
                new DialogInterface.OnClickListener() {
                    public void onClick(DialogInterface dialog,int id) {
                        dialog.cancel();
                    }
                })
            );
        // create alert dialog
        android.support.v7.app.AlertDialog alertDialog = alertDialogBuilder.create();
        // show it
        alertDialog.show();
    }
});
}
public void onRequestPermissionsResult(int requestCode, String[] permissions, int[] grantResults) {

```



```

        switch (requestCode) {
            case REQUEST_CODE_ASK_MULTIPLE_PERMISSIONS: {
                Map<String, Integer> perms = new HashMap<String, Integer>();
                perms.put(Manifest.permission.ACCESS_COARSE_LOCATION,
                    PackageManager.PERMISSION_GRANTED);
                for (int i = 0; i < permissions.length; i++)
                    perms.put(permissions[i], grantResults[i]);
                if (perms.get(Manifest.permission.ACCESS_COARSE_LOCATION) ==
                    PackageManager.PERMISSION_DENIED) {
                    wifi.startScan();
                } else {
                    //Permission Denied
                    Toast.makeText(this, "Some Permission is Denied", Toast.LENGTH_SHORT).show();
                }
            }
        }
    }
}

@SuppressLint("NewApi")
private void checkandAskPermission() {
    List<String> permissionsNeeded = new ArrayList<String>();

    final List<String> permissionList = new ArrayList<String>();
    if (!addPermission(permissionList, Manifest.permission.ACCESS_COARSE_LOCATION))
        permissionsNeeded.add("Network");

    if (permissionList.size() > 0) {
        if (permissionsNeeded.size() > 0) {
            //Need Rationale
            String message = "You need to grant access to " + permissionsNeeded.get(0);
            for (int i = 0; i < permissionsNeeded.size(); i++)
                message = message + "," + permissionsNeeded.get(i);

            return;
        }
        requestPermissions(permissionList.toArray(new String[permissionList.size()]),
            REQUEST_CODE_ASK_MULTIPLE_PERMISSIONS);
        return;
    }
}

private void showMessageOKCancel(String message, DialogInterface.OnClickListener okListener) {
    new AlertDialog.Builder(this)
        .setMessage(message)
        .setPositiveButton("OK", okListener)
        .setNegativeButton("Cancel", okListener)
        .create()
        .show();
}

@SuppressLint("NewApi")
private boolean addPermission(List<String> permissionList, String
    permission) {
    if (this.checkSelfPermission(permission) != PackageManager.PERMISSION_GRANTED) {
        permissionList.add(permission);
        if (!shouldShowRequestPermissionRationale(permission))
            return false;
    }
    return true;
}

@Override
public void onBackPressed() {
    intent = new Intent(WifiFragment_listwifi.this, menu_utama.class);
    finish();
    startActivity(intent);
}

public void connectWiFi(String SSID,String password,String Security) {
    try {

        Log.d(TAG, "Item clicked, SSID " + SSID + " Security : " + Security);

        String networkSSID = SSID;
        String networkPass = password;
        WifiConfiguration conf = new WifiConfiguration();
        conf.SSID = "\"" + networkSSID + "\"";
    }
}

```

```

conf.status = WifiConfiguration.Status.ENABLED;
conf.priority = 40;

if (Security.toUpperCase().contains("WEP")) {
    Log.v("rht", "Configuring WEP");
    conf.allowedKeyManagement.set(WifiConfiguration.KeyMgmt.NONE);
    conf.allowedProtocols.set(WifiConfiguration.Protocol.RSN);
    conf.allowedProtocols.set(WifiConfiguration.Protocol.WPA);
    conf.allowedAuthAlgorithms.set(WifiConfiguration.AuthAlgorithm.OPEN);
    conf.allowedAuthAlgorithms.set(WifiConfiguration.AuthAlgorithm.SHARED);
    conf.allowedPairwiseCiphers.set(WifiConfiguration.PairwiseCipher.CCMP);
    conf.allowedPairwiseCiphers.set(WifiConfiguration.PairwiseCipher.TKIP);
    conf.allowedGroupCiphers.set(WifiConfiguration.GroupCipher.WEP40);
    conf.allowedGroupCiphers.set(WifiConfiguration.GroupCipher.WEP104);

    if (networkPass.matches("^([0-9a-fA-F]+)$")) {
        conf.wepKeys[0] = networkPass;
    } else {
        conf.wepKeys[0] = "\\\".concat(networkPass).concat("\\\"";
    }
    conf.wepTxKeyIndex = 0;
} else if (Security.toUpperCase().contains("WPA")) {
    Log.v(TAG, "Configuring WPA");
    conf.allowedProtocols.set(WifiConfiguration.Protocol.RSN);
    conf.allowedProtocols.set(WifiConfiguration.Protocol.WPA);
    conf.allowedKeyManagement.set(WifiConfiguration.KeyMgmt.WPA_PSK);
    conf.allowedPairwiseCiphers.set(WifiConfiguration.PairwiseCipher.CCMP);
    conf.allowedPairwiseCiphers.set(WifiConfiguration.PairwiseCipher.TKIP);
    conf.allowedGroupCiphers.set(WifiConfiguration.GroupCipher.WEP40);
    conf.allowedGroupCiphers.set(WifiConfiguration.GroupCipher.WEP104);
    conf.allowedGroupCiphers.set(WifiConfiguration.GroupCipher.CCMP);
    conf.allowedGroupCiphers.set(WifiConfiguration.GroupCipher.TKIP);
    conf.preSharedKey = "\\\" + networkPass + "\\\"";
} else {
    Log.v(TAG, "Configuring OPEN network");
    conf.allowedKeyManagement.set(WifiConfiguration.KeyMgmt.NONE);
    conf.allowedProtocols.set(WifiConfiguration.Protocol.RSN);
    conf.allowedProtocols.set(WifiConfiguration.Protocol.WPA);
    conf.allowedAuthAlgorithms.clear();
    conf.allowedPairwiseCiphers.set(WifiConfiguration.PairwiseCipher.CCMP);
    conf.allowedPairwiseCiphers.set(WifiConfiguration.PairwiseCipher.TKIP);
    conf.allowedGroupCiphers.set(WifiConfiguration.GroupCipher.WEP40);
    conf.allowedGroupCiphers.set(WifiConfiguration.GroupCipher.WEP104);
    conf.allowedGroupCiphers.set(WifiConfiguration.GroupCipher.CCMP);
    conf.allowedGroupCiphers.set(WifiConfiguration.GroupCipher.TKIP);
}

WifiManager wifiManager = (WifiManager)
WifiFragment_listwifi.this.getSystemService(Context.WIFI_SERVICE);
int networkId = wifiManager.addNetwork(conf);

Log.v(TAG, "Add result " + networkId);
List<WifiConfiguration> list = wifiManager.getConfiguredNetworks();
for (WifiConfiguration i : list) {
    if (i.SSID != null && i.SSID.equals("\\\" + networkSSID + "\\\")) {
        Log.v(TAG, "WifiConfiguration SSID " + i.SSID);

        boolean isDisconnected = wifiManager.disconnect();
        Log.v(TAG, "isDisconnected : " + isDisconnected);

        boolean isEnabled = wifiManager.enableNetwork(i.networkId, true);
        Log.v(TAG, "isEnabled : " + isEnabled);

        boolean isReconnected = wifiManager.reconnect();
        Log.v(TAG, "isReconnected : " + isReconnected);

        break;
    }
}
} catch (Exception e) {
    e.printStackTrace();
}
}
}

```

- WifiScanAdapter.java

```
package com.example.riona.wifimonitoring;

import android.content.Context;
import android.support.v7.widget.RecyclerView;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;
import java.util.List;

public class WifiScanAdapter extends RecyclerView.Adapter<RecyclerView.ViewHolder> {
    private List<WifiFragment_listwifi.device> wifiList;
    private Context context;
    private View.OnClickListener mOnClickListener;
    public WifiScanAdapter(List<WifiFragment_listwifi.device> wifiList, Context context){
        this.wifiList = wifiList;
        this.context = context;
    }
    public void onAttachedRecyclerView(RecyclerView recyclerView){
        super.onAttachedToRecyclerView(recyclerView);
    }
    @Override
    public RecyclerView.ViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {
        View itemView = LayoutInflater.from(parent.getContext()).inflate(R.layout.logo_listwifi, parent, false);
        ViewHolder holder = new ViewHolder(itemView);
        itemView.setTag(holder);
        return holder;
    }
    @Override
    public void onBindViewHolder(RecyclerView.ViewHolder holder, int position) {
        WifiFragment_listwifi.device device=wifiList.get(position);
        String name = device.getName().toString();
        ((ViewHolder)holder).vName.setText(name + "|" + device.getMac().toString()+"|" +device.getRssi());
        ((ViewHolder)holder).vImage.setImageResource(R.drawable.ic_network_wifi_black_24dp);
        ((ViewHolder)holder).context = context;
        ((ViewHolder)holder).position = position;
    }

    @Override
    public void onAttachedToRecyclerView(RecyclerView recyclerView){
        super.onAttachedToRecyclerView(recyclerView);
    }
    @Override
    public int getItemCount(){
        int itemCount = wifiList.size();
        return itemCount;
    }
    public class ViewHolder extends RecyclerView.ViewHolder{
        protected ImageView vImage;
        protected TextView vName;
        protected Context context;
        protected int position;
        public ViewHolder (View v){
            super(v);
            vName = (TextView) v.findViewById(R.id.ssid_name);
            vImage= (ImageView) v.findViewById(R.id.WifiLogo);
        }
    }
}
```

- WifiScanAdapter_masukanpass.java

```
package com.example.riona.wifimonitoring;

import android.content.Context;
import android.support.annotation.NonNull;
import android.support.v7.widget.RecyclerView;
import android.view.LayoutInflater;
import android.view.View;
```

```

import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;
import java.util.List;

public class WifiScanAdapter_masukanpass extends RecyclerView.Adapter<RecyclerView.ViewHolder> {

private List<WifiFragment_listwifi.device> wifiList;
private Context context;
private View.OnClickListener mOnClickListener;

public WifiScanAdapter_masukanpass(List<WifiFragment_listwifi.device> wifiList, Context context) {
    this.wifiList = wifiList;
    this.context=context;
}

@NonNull
@Override
public RecyclerView.ViewHolder onCreateViewHolder(@NonNull ViewGroup viewGroup, int i) {
    View itemView = LayoutInflater.
        from(viewGroup.getContext()).
        inflate(R.layout.logo_listwifi, viewGroup, false);
    MyViewHolder holder = new MyViewHolder(itemView);
    itemView.setTag(holder);
    itemView.setOnClickListener(mOnClickListener);
    return holder;
}

@NonNull
@Override
public void onBindViewHolder(RecyclerView.ViewHolder holder, int position) {
    WifiFragment_listwifi.device device=wifiList.get(position);
    String name=device.getName().toString();
    ((MyViewHolder) holder).vName.setText(name);
    ((MyViewHolder) holder).vName.setTag(device);
    ((MyViewHolder) holder).vImage.setImageResource(R.drawable.ic_action_wifi);
    ((MyViewHolder) holder).context = context;
    ((MyViewHolder) holder).position = position;
}

@Override
public void onAttachedToRecyclerView(RecyclerView recyclerView) {
    super.onAttachedToRecyclerView(recyclerView);
}

@Override
public int getItemCount() {
    int itemCount = wifiList.size();
    return itemCount;
}

public void setOnClickListener(View.OnClickListener lis) {
    mOnClickListener = lis;
}

public class MyViewHolder extends RecyclerView.ViewHolder {
    protected ImageView vImage;
    protected TextView vName;
    protected Context context;
    protected int position;
    public MyViewHolder(View v) {
        super(v);
        vName = v.findViewById(R.id.ssid_name);
        vImage = v.findViewById(R.id.Wifilogo);
    }
}
}

```

- **WifiStatus_hasil.java**

```

package com.example.riona.wifimonitoring;

import android.Manifest;
import android.app.Activity;
import android.content.Context;
import android.content.pm.PackageManager;
import android.net.wifi.WifiInfo;
import android.net.wifi.WifiManager;
import android.support.v4.app.ActivityCompat;
import android.support.v4.content.ContextCompat;

```

```

import android.widget.TextView;
public class WifiStatus_hasil {
    private static String[] permissions = new String[]{
        Manifest.permission.ACCESS_FINE_LOCATION,
        Manifest.permission.ACCESS_WIFI_STATE,
        Manifest.permission.ACCESS_COARSE_LOCATION,
        Manifest.permission.ACCESS_NETWORK_STATE,
    };
    TextView txtStatusSSID;
    TextView txtStatusRSSID;
    TextView txtStatusDataRate;
    TextView txtStatusFreq;
    TextView txtStatusMAC;
    TextView txtStatusChannel;
    public WifiStatus_hasil() {
    }
    public static String GetWifi_MacAddress(Context context) {
        if (grantAccess(context, "Manifest.permission.ACCESS_FINE_LOCATION")){
            return "Not Granted";
        }else{
            WifiManager manager = (WifiManager) context.getSystemService(Context.WIFI_SERVICE);
            WifiInfo info = manager.getConnectionInfo();
            String address = info.getBSSID();
            return address;
        }
    }
    public static int GetWifi_DataRate(Context context) {
        WifiManager manager = (WifiManager) context.getSystemService(Context.WIFI_SERVICE);
        WifiInfo info = manager.getConnectionInfo();
        int speed = info.getLinkSpeed();
        return speed;
    }
    public static int GetWifi_Freq(Context context) {
        WifiManager manager = (WifiManager) context.getSystemService(Context.WIFI_SERVICE);
        WifiInfo info = manager.getConnectionInfo();
        int freq = info.getFrequency();
        return freq;
    }
    public static int GetWifi_RSSI(Context context) {
        WifiManager manager = (WifiManager) context.getSystemService(Context.WIFI_SERVICE);
        WifiInfo info = manager.getConnectionInfo();
        Integer progressrssi = info.getRssi();
        return progressrssi;
    }
    public static String GetWifi_SSID(Context context) {
        WifiManager manager = (WifiManager) context.getSystemService(Context.WIFI_SERVICE);
        WifiInfo info = manager.getConnectionInfo();
        String ssidget = info.getSSID();
        return ssidget;
    }
    public static boolean grantAccess(Context context, String Permission) {
        Integer OK = 0;
        if (ContextCompat.checkSelfPermission(context, Permission) != PackageManager.PERMISSION_GRANTED) {
            //Permission Not Granted
            ActivityCompat.requestPermissions((Activity) context, permissions, 1);
            return false;
        } else {
            return true;
        }
    }
}

```

- **Bandwidth_ukur.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/activity_main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bgriona">
<LinearLayout

```

```

android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical">
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="50dp"
    android:orientation="horizontal"
    android:weightSum="1">
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="150dp"
    android:baselineAligned="false"
    android:orientation="horizontal"
    android:weightSum="3">
<LinearLayout
    android:layout_width="0dp"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:orientation="vertical">

    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="15dp"
        android:text="PING"
        android:textAlignment="center"
        android:textSize="12sp"
        android:textStyle="normal|bold" />

    <TextView
        android:id="@+id/pingTextView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="0 ms"
        android:textAlignment="center"
        android:textColor="@android:color/background_light"
        android:textSize="20sp" />

    <LinearLayout
        android:id="@+id/chartPing"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

</LinearLayout>

</LinearLayout>

<LinearLayout
    android:layout_width="0dp"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:orientation="vertical">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="15dp"
        android:text="DOWNLOAD"
        android:textAlignment="center"
        android:textSize="12sp"
        android:textStyle="normal|bold" />

    <TextView
        android:id="@+id/downloadTextView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="0 Mbps"
        android:textAlignment="center"
        android:textColor="@android:color/background_light"
        android:textSize="20sp" />

```

```

<LinearLayout
    android:id="@+id/chartDownload"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical" />
</LinearLayout>

<LinearLayout
    android:layout_width="0dp"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:orientation="vertical">

    <TextView
        android:id="@+id/textView3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="15dp"
        android:text="UPLOAD"
        android:textAlignment="center"
        android:textSize="12sp"
        android:textStyle="normal|bold" />

    <TextView
        android:id="@+id/uploadTextView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="0 Mbps"
        android:textAlignment="center"
        android:textColor="@android:color/background_light"
        android:textSize="20sp" />

    <LinearLayout
        android:id="@+id/chartUpload"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

        </LinearLayout>
    </LinearLayout>

</LinearLayout>

<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:srcCompat="@drawable/main" />

    <ImageView
        android:id="@+id/barImageView"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:srcCompat="@drawable/bar" />

    <RelativeLayout
        android:layout_width="wrap_content"
        android:layout_height="50dp"
        android:layout_marginTop="300dp">

        <Button
            android:id="@+id/startButton"
            style="@style/Widget.AppCompat.Button.Colored"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_marginRight="200dp"
            android:elevation="0dp"
            android:shadowRadius="15"

```

```

        android:text="Begin Test"
        android:textAllCaps="false"
        android:textColor="@android:color/background_light"
        android:textSize="16sp" />

<Button
    android:id="@+id/btnsimpan"
    style="@style/Widget.AppCompat.Button.Colored"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="200dp"
    android:elevation="0dp"
    android:shadowRadius="15"
    android:text="Simpan"
    android:textAllCaps="false"
    android:textColor="@android:color/background_light"
    android:textSize="16sp" />
</RelativeLayout>
</RelativeLayout>
</LinearLayout>
</RelativeLayout>

```

- Hasil.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bgriona"
    android:padding="16dp">
<TableLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_alignParentEnd="true"
    android:layout_centerVertical="true"
    android:layout_marginTop="-140dp"
    android:layout_marginEnd="32dp"
    android:layout_marginRight="3dp"
    tools:ignore="RtlCompat">

<TableRow
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="30dp"
    android:layout_marginTop="100dp"
    android:layout_marginRight="5dp"
    android:background="#b0c4de">
<TextView
    android:id="@+id/txtSSID"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="SSID"
    android:textSize="15dp"
    android:textStyle="bold"
<TextView
    android:id="@+id/txttanda1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text=":"
    android:textSize="17dp"
    android:textStyle="bold" />
<TextView
    android:id="@+id/txtStatusSSID"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text=""
    android:textSize="15dp"
    android:textStyle="bold"
/>

```



```

</TableRow>
<TableRow
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="30dp"
    android:layout_marginTop="20dp"
    android:layout_marginRight="5dp"
    android:background="#b0c4de">
    <TextView
        android:id="@+id/txtRSSID"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="RSSI SIGNAL"
        android:textSize="15dp"
        android:textStyle="bold" />
    <TextView
        android:id="@+id/txttanda2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text=":"
        android:textSize="17dp"
        android:textStyle="bold" />
    <TextView
        android:id="@+id/txtStatusRSSID"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text=""
        android:textSize="15dp"
        android:textStyle="bold" />
</TableRow>
<TableRow
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="30dp"
    android:layout_marginTop="20dp"
    android:layout_marginRight="5dp"
    android:background="#b0c4de">
    <TextView
        android:id="@+id/txtMAC"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="MAC"
        android:textSize="15dp"
        android:textStyle="bold" />
    <TextView
        android:id="@+id/txttanda4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text=":"
        android:textSize="17dp"
        android:textStyle="bold" />
    <TextView
        android:id="@+id/txtStatusMAC"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text=""
        android:textSize="15dp"
        android:textStyle="bold" />
</TableRow>
<TableRow
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="30dp"
    android:layout_marginTop="20dp"
    android:layout_marginRight="5dp"
    android:background="#b0c4de">
    <TextView
        android:id="@+id/txtDataRate"

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="0dp"
        android:layout_weight="1"
        android:text="Data Rate"
        android:textSize="15dp"
        android:textStyle="bold" />
<TextView
    android:id="@+id/txttanda7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text=":"
    android:textSize="17dp"
    android:textStyle="bold" />
<TextView
    android:id="@+id/txtStatusDataRate"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="-5dp"
    android:layout_weight="1"
    android:text=""
    android:textSize="15dp"
    android:textStyle="bold" />
</TableRow>
<TableRow
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="30dp"
    android:layout_marginTop="20dp"
    android:layout_marginRight="5dp"
    android:background="#b0c4de">
<TextView
    android:id="@+id/txtFreq"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="0dp"
    android:layout_weight="1"
    android:text="Frequency"
    android:textSize="15dp"
    android:textStyle="bold" />
<TextView
    android:id="@+id/txttanda8"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text=":"
    android:textSize="17dp"
    android:textStyle="bold" />
<TextView
    android:id="@+id/txtStatusFreq"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="-5dp"
    android:layout_weight="1"
    android:text=""
    android:textSize="15dp"
    android:textStyle="bold" />
</TableRow>
</TableLayout>
<Button
    android:id="@+id/btngetInfo"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="40dp"
    android:layout_marginRight="180dp"
    android:layout_marginTop="400dp"
    android:layout_marginBottom="70dp"
    android:background="#4B77BE"
    android:text="UKUR"
    android:textColor="#fff" />
<Button
    android:id="@+id/btngetBW"
    android:layout_width="match_parent"

```

```

        android:layout_height="wrap_content"
        android:layout_marginLeft="180dp"
        android:layout_marginTop="400dp"
        android:layout_marginRight="45dp"
        android:layout_marginBottom="60dp"
        android:background="#4B77BE"
        android:text="BANDWIDTH"
        android:textColor="#fff" />

<Button
    android:id="@+id/btnBack"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="100dp"
    android:layout_marginTop="470dp"
    android:layout_marginRight="100dp"
    android:layout_marginBottom="580dp"
    android:background="#4B77BE"
    android:text="BACK"
    android:textColor="#fff" />
</RelativeLayout>

```

- **Help.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bgriona"
    android:padding="16dp">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="15dp"
        android:orientation="vertical">
        <TextView
            android:id="@+id/TextView6"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:layout_marginTop="0dp"
            android:layout_marginBottom="50dp"
            android:text="-TIDAK BISA LOGIN APLIKASI ?-"
            android:textColor="#000"
            android:textSize="18dip"
            android:textStyle="bold"
            tools:ignore="DuplicateIds" />
        <TextView
            android:id="@+id/TextView2"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:layout_marginTop="0dp"
            android:layout_marginBottom="1dp"
            android:text="1. Pastikan Sudah memiliki Akun pada
Aplikasi ini, Jika belum silahkan Klik Register untuk memiliki Akun."
            android:textAlignment="textStart"
            android:textColor="#000"
            android:textSize="15dip"
            android:textStyle="bold"
            tools:ignore="RtlCompat" />
        <Button
            android:id="@+id/btn_regis"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:layout_marginBottom="15dp"
            android:background="#00555555"
            android:text="Register"
            android:textSize="18dip"

```

```

        android:textColor="#00008B"
        android:textStyle="bold" />
<TextView
    android:id="@+id/TextView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:layout_marginTop="0dp"
    android:layout_marginBottom="1dp"
    android:text="2. Aplikasi ini diperuntukan kepada Operator PT. Telekomunikasi Indonesia, Harap
Digunakan dengan bijak."
    android:textAlignment="textStart"
    android:textColor="#000"
    android:textSize="15dp"
    android:textStyle="bold"
    tools:ignore="RtlCompat" />
<TextView
    android:id="@+id/TextView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:layout_marginTop="40dp"
    android:layout_marginBottom="50dp"
    android:text="Semoga Bermanfaat :)"
    android:textColor="#000"
    android:textSize="18dp"
    android:textStyle="bold" />
</LinearLayout>
</RelativeLayout>

```

- History.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bgriona"
    android:padding="16dp">
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_centerHorizontal="true"
    android:layout_centerVertical="true"
    android:layout_margin="0dp"
    android:orientation="vertical">
<ListView
    android:id="@+id/Listhistory"
    android:layout_width="match_parent"
    android:layout_height="match_parent"/>
</LinearLayout>
</RelativeLayout>

```

- Isi_history.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#67809F"
    android:padding="16dp">
<TextView
    android:id="@+id/txthjudul1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="" />
<TextView
    android:id="@+id/txthjudul2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="150dp"

```

```

        android:layout_marginTop="1dp"
        android:layout_weight="1"
        android:text="" />
<TableLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="-50dp"
    android:layout_marginRight="-10dp"
    android:layout_centerHorizontal="true"
    android:layout_centerVertical="true">
    <TableRow
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="30dp"
        android:layout_marginTop="30dp"
        android:layout_marginRight="50dp">
        <TextView
            android:id="@+id/txthjudulSSID"
            android:layout_width="150dp"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="SSID" />
        <TextView
            android:id="@+id/txhtanda1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text=":" />
        <TextView
            android:id="@+id/txthSSID"
            android:layout_width="167dp"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="" />
    </TableRow>
    <TableRow
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="30dp"
        android:layout_marginRight="50dp">
        <TextView
            android:id="@+id/txthrssidsignalj"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="RSSID SIGNAL" />
        <TextView
            android:id="@+id/txhtanda2h"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text=":" />
        <TextView
            android:id="@+id/txthrssidsignal"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="" />
    </TableRow>
    <TableRow
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="30dp"
        android:layout_marginRight="50dp">
        <TextView
            android:id="@+id/txthjudulMAC"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="MAC" />
        <TextView
            android:id="@+id/txhtanda4"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"

```

```

        android:layout_weight="1"
        android:text=":" />
<TextView
    android:id="@+id/txthmac"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="" />
</TableRow>
<TableRow
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="50dp">
<TextView
    android:id="@+id/txthjuduldataarate"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="DATA RATE" />
<TextView
    android:id="@+id/txhttanda5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text=":" />
<TextView
    android:id="@+id/txthdataarate"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="" />
</TableRow>
<TableRow
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="50dp">
<TextView
    android:id="@+id/txthjudulfreq"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="FREQUENCY" />
<TextView
    android:id="@+id/txhttanda6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text=":" />
<TextView
    android:id="@+id/txthfreq"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="" />
</TableRow>
<TableRow
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="50dp">
<TextView
    android:id="@+id/txthjudul_Bwupload"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="BANDWIDTH UP" />
<TextView
    android:id="@+id/txhttanda7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text=":" />

```

```

<TextView
    android:id="@+id/txthBwUp"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="" />
</TableRow>
<TableRow
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="50dp">
    <TextView
        android:id="@+id/txthjudul_BwDown"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="BANDWIDTH DOWN" />
    <TextView
        android:id="@+id/txthtanda8"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text=":" />
    <TextView
        android:id="@+id/txthbwdown"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="" />
</TableRow>
</TableLayout>
</RelativeLayout>

```

- Login_activity.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bgriona"
    android:padding="16dp">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:layout_margin="0dp"
        android:orientation="vertical">
        <ImageView
            android:id="@+id/logo"
            android:layout_width="150dp"
            android:layout_height="100dp"
            android:layout_gravity="center"
            android:layout_marginTop="0dp"
            android:layout_marginBottom="10dp"
            android:background="@drawable/logo2" />
        <TextView
            android:id="@+id/TextView1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:layout_marginTop="0dp"
            android:layout_marginBottom="50dp"
            android:text="-The World In Your Hand-"
            android:textSize="18dp"
            android:textStyle="bold" />
        <EditText
            android:id="@+id/txt_username"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_gravity="center"

```

```

        android:layout_marginLeft="30dp"
        android:layout_marginTop="5dp"
        android:layout_marginRight="30dp"
        android:paddingVertical="10dp"
        android:background="#D3D3D3"
        android:hint="Username"
        android:inputType="textEmailAddress"
        android:singleLine="true" />
<EditText
    android:id="@+id/txt_password"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"
    android:layout_marginTop="7dp"
    android:paddingVertical="10dp"
    android:hint="Password"
    android:background="#D3D3D3"
    android:password="true"
    android:singleLine="true" />
<Button
    android:id="@+id/btn_login"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:layout_marginTop="50dp"
    android:layout_marginBottom="5dp"
    android:background="#DC143C"
    android:text="Login"
    android:textColor="#fff"
    android:textStyle="bold" />
<Button
    android:id="@+id/btn_register"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:layout_marginBottom="15dp"
    android:background="#00555555"
    android:text="Tidak bisa login?"
    android:textSize="12dp"
    android:textStyle="bold" />
</LinearLayout>
</RelativeLayout>

```

- **Logo_listwifi.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.v7.widget.CardView
    xmlns:card_view="http://schemas.android.com/apk/res-auto"
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/card_view"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    card_view:cardCornerRadius="1dp"
    android:padding="10dp"
    android:layout_margin="1dp">
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="horizontal"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content">
<ImageView
    android:id="@+id/Wifilogo"
    android:layout_width="35dp"
    android:layout_height="35dp"
    android:text="Button"
    android:src="@drawable/lgwf"/>
<TextView
    android:layout_marginLeft="10dp"
    android:id="@+id/ssid_name"
    android:textSize="16dp"
    android:textAlignment="center"

```



```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="TextView"/>
    </LinearLayout>
</android.support.v7.widget.CardView>

```

- Masukan_pass.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
    <TextView
        android:id="@+id/textViewSSID"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="SSID"
        android:layout_marginTop="100dp"
        android:layout_marginLeft="20dp"
        tools:layout_editor_absoluteX="35dp"
        tools:layout_editor_absoluteY="0dp" />
    <TextView
        android:id="@+id/textViewSecurity"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="20dp"
        android:ems="10" />
</LinearLayout>
</android.support.constraint.ConstraintLayout>

```

- Menu_utama.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bgriona"
    android:padding="16dp">
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:orientation="vertical">
    <ImageView
        android:id="@+id/logo"
        android:layout_width="150dp"
        android:layout_height="100dp"
        android:layout_gravity="center"
        android:layout_marginBottom="20dp"
        android:background="@drawable/logo2" />
    <TextView
        android:id="@+id/TextView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginTop="-20dp"
        android:layout_marginBottom="50dp"
        android:text="-The World In Your Hand-"
        android:textSize="16dp"
        android:textStyle="bold" />
</LinearLayout>
    android:layout_width="match_parent"

```

```

android:layout_height="100dp"
android:layout_marginBottom="10dp"
android:orientation="horizontal">
<Button
    android:id="@+id/btn_listwifi"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:background="#4B77BE"
    android:layout_marginRight="5dp"
    android:text="List Wifi"
    android:layout_marginVertical="20dp"
    android:layout_marginHorizontal="25dp"
    android:textColor="#fff"
    android:textStyle="bold"
    android:textSize="14dp" />
<Button
    android:id="@+id/btn_history"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:layout_marginVertical="20dp"
    android:layout_marginHorizontal="25dp"
    android:layout_marginRight="5dp"
    android:background="#4B77BE"
    android:textColor="#fff"
    android:text="History"
    android:textStyle="bold"
    android:textSize="14dp" />
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="100dp"
    android:layout_marginTop="-20dp"
    android:layout_marginBottom="150dp"
    android:orientation="horizontal">
<Button
    android:id="@+id/btn_profil"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginVertical="20dp"
    android:layout_marginHorizontal="25dp"
    android:layout_weight="1"
    android:layout_marginRight="5dp"
    android:layout_marginTop="5dp"
    android:background="#4B77BE"
    android:textColor="#fff"
    android:text="profil"
    android:textStyle="bold"
    android:textSize="14dp" />
<Button
    android:id="@+id/btn_keluar"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:layout_marginVertical="20dp"
    android:layout_marginHorizontal="25dp"
    android:layout_marginRight="5dp"
    android:layout_marginTop="5dp"
    android:background="#4B77BE"
    android:text="Keluar"
    android:textSize="14dp"
    android:textColor="#fff"
    android:textStyle="bold"
    android:elevation="50dp"/>
</LinearLayout>
</LinearLayout>
</RelativeLayout>

```

- Profil_activity.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bgriona"
    android:padding="16dp">
    <TextView
        android:id="@+id/txtjudulprofil"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="90dp"
        android:layout_marginTop="10dp"
        android:layout_marginRight="40dp"
        android:layout_marginBottom="50dp"
        android:text="-PROFIL PENGGUNA-"
        android:textColor="#000"
        android:textSize="16dip"
        android:textStyle="bold" />
    <TableLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_alignParentBottom="true"
        android:layout_marginRight="-50dp"
        android:layout_marginBottom="85dp"
        android:layout_toEndOf="@+id/txtjudul1"
        android:layout_toRightOf="@+id/txtjudul1"
        tools:ignore="RtlCompat">
        <TableRow
            android:layout_width="310dp"
            android:layout_height="wrap_content"
            android:layout_marginLeft="30dp"
            android:layout_marginTop="250dp"
            android:layout_marginRight="50dp"
            android:paddingVertical="7dp">
            <TextView
                android:id="@+id/txtNamaPegguna"
                android:layout_width="3dp"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:text="Nama"
                android:textColor="#000"
                android:textSize="17dp"
                android:textStyle="bold" />
            <TextView
                android:id="@+id/txthtandanama"
                android:layout_width="14dp"
                android:layout_height="wrap_content"
                android:text=":"
                android:textColor="#000"
                android:textSize="17dp"
                android:textStyle="bold" />
            <TextView
                android:id="@+id/txtNama_pengguna"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:text=""
                android:textColor="#000"
                android:textSize="17dp"
                android:textStyle="bold" />
        </TableRow>
        <TableRow
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="30dp"
            android:layout_marginTop="1dp"
            android:layout_marginRight="50dp"
            android:paddingVertical="7dp">
            <TextView
                android:id="@+id/txtPasswordPegguna"
                android:layout_width="8dp"
                android:layout_height="wrap_content"

```

```

        android:layout_weight="1"
        android:text="Pass"
        android:textColor="#000"
        android:textSize="17dp"
        android:textStyle="bold" />
<TextView
    android:id="@+id/txthtandapassword"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text=":"
    android:textColor="#000"
    android:textSize="17dp"
    android:textStyle="bold" />
<TextView
    android:id="@+id/txtPassword_pengguna"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text=""
    android:textColor="#000"
    android:textSize="17dp"
    android:textStyle="bold" />
</TableRow>
<TableRow
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="30dp"
    android:layout_marginTop="1dp"
    android:layout_marginRight="50dp"
    android:paddingVertical="7dp">
    <TextView
        android:id="@+id/txtEmailPengguna"
        android:layout_width="5dp"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Email"
        android:textColor="#000"
        android:textSize="17dp"
        android:textStyle="bold" />
    <TextView
        android:id="@+id/txttandaemail"
        android:layout_width="14dp"
        android:layout_height="wrap_content"
        android:text=":"
        android:textColor="#000"
        android:textSize="17dp"
        android:textStyle="bold" />
    <TextView
        android:id="@+id/txtEmail_pengguna"
        android:layout_width="164dp"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text=""
        android:textColor="#000"
        android:textSize="17dp"
        android:textStyle="bold" />
</TableRow>
</TableLayout>
<Button
    android:id="@+id/btn_kembali"
    android:layout_width="match_parent"
    android:layout_height="60dp"
    android:layout_marginLeft="110dp"
    android:layout_marginTop="450dp"
    android:layout_marginRight="110dp"
    android:layout_marginBottom="30dp"
    android:background="#4B77BE"
    android:text="BACK"
    android:textSize="15dp"
    android:textStyle="bold"
    android:textColor="#fff" />
<ImageButton
    android:id="@+id/photo"
    android:layout_width="160dp"

```

```

        android:layout_height="160dp"
        android:layout_gravity="center"
        android:layout_marginLeft="90dp"
        android:layout_marginTop="50dp"
        android:layout_marginRight="40dp" />
</RelativeLayout>

```

- Register.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bgriona"
    android:padding="16dp">
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_centerHorizontal="true"
    android:layout_centerVertical="true"
    android:orientation="vertical">
    <EditText
        android:id="@+id/txt_nama"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_margin="10dp"
        android:hint="Nama"
        android:background="#D3D3D3"
        android:paddingVertical="6dp"
        android:singleLine="true" />
    <EditText
        android:id="@+id/txt_email"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_margin="10dp"
        android:hint="Email"
        android:inputType="textEmailAddress"
        android:background="#D3D3D3"
        android:paddingVertical="6dp"
        android:singleLine="true" />
    <EditText
        android:id="@+id/txt_username"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_margin="10dp"
        android:hint="Username"
        android:background="#D3D3D3"
        android:paddingVertical="6dp"
        android:singleLine="true" />
    <EditText
        android:id="@+id/txt_password"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_margin="10dp"
        android:hint="Password"
        android:password="true"
        android:background="#D3D3D3"
        android:paddingVertical="6dp"
        android:singleLine="true" />
    <EditText
        android:id="@+id/txt_confirm_password"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_margin="10dp"
        android:hint="Confirmation Password"
        android:background="#D3D3D3"
        android:paddingVertical="6dp"

```

```

        android:password="true" />
    <Button
        android:id="@+id/btn_register"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginTop="15dp"
        android:layout_marginBottom="10dp"
        android:background="#DC143C"
        android:text="Register"
        android:textColor="#fff"
        android:textStyle="bold" />
    <Button
        android:id="@+id/btn_login"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginBottom="15dp"
        android:background="#00555555"
        android:text="Login"
        android:textStyle="bold" />
</LinearLayout>
</RelativeLayout>

```

- **Scan_wifi.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bgriona"
    xmlns:app="http://schemas.android.com/apk/res-auto">
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <android.support.v7.widget.RecyclerView
        android:id="@+id/wifiRecyclerView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="#b0c4de"
        android:layout_below="@+id/txtviewdatawifi"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:layout_marginTop="70dp"
        tools:ignore="UnknownId"
        app:layout_constraintBottom_toTopOf="@+id/wifiScan"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.0">
    </android.support.v7.widget.RecyclerView>
</LinearLayout>
<TextView
    android:id="@+id/txtviewdatawifi"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentLeft="true"
    android:layout_marginStart="75dp"
    android:layout_marginLeft="75dp"
    android:layout_marginTop="20dp"
    android:text="-ACCESS POINT TERDEKAT-"
    android:textSize="20sp"
    android:textColor="#DC143C"
    android:textStyle="bold" />
<Button
    android:id="@+id/wifiScan"
    android:layout_width="match_parent"
    android:layout_height="60dp"
    android:textColor="#fff"
    android:layout_marginLeft="120dp"
    android:layout_marginTop="450dp"

```

```
        android:layout_marginRight="120dp"
        android:text="Wifi Scan"
        android:textSize="15dp"
        android:textStyle="bold"
        android:background="#4B77BE"/>
</RelativeLayout>
```

- **Splash.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bg3">
    <ImageView
        android:id="@+id/imageView"
        android:layout_weight="1"
        android:layout_width="130dp"
        android:layout_height="150dp"
        android:layout_gravity="center"
        android:layout_marginBottom="10dp"
        app:srcCompat="@drawable/logo" />
</LinearLayout>
```