

CURRICULUM VITAE

NAMA LENGKAP : HERMIKA YULIANA SITOMPUL
NIM : 061540352249
TEMPAT TANGGAL LAHIR : PRABUMULIH, 22 JUNI 1997
ALAMAT : JL. SRIJAYA NEGARA N0.2293 RT.32
RW.10,KELURAHAN BUKIT LAMA, PALEMBANG ILIR
BARAT 1, PALEMBANG
TELEPON : 082186704250

RIWAYAT PENDIDIKAN FORMAL

PENDIDIKAN	NAMA SEKOLAH	TAMAT TAHUN
SD	SD NEGERI 6 PRABUMULIH	2009
SMP	SMP SANTA MARIA PRABUMULIH	2012
SMA	SMA PGRI PRABUMULIH	2015

RIWAYAT PENDIDIKAN NON FORMAL

JENIS PENDIDIKAN NON FORMAL	TAHUN
BIMBEL BUDIWIJAYA	2011-2012
BIMBEL GSC	2013-2014

PENGALAMAN PENELITIAN

NO	NAMA PENELITIAN	TAHUN
-	-	-

PENGHARGAAN/PENCAPAIAN

NO	PENGHARGAAN	TAHUN
1	PESERTA ENGINEERING FESTIVAL AND COMPETITIONS	2016

2	PESERTA LINE FOLLOWER ROBOTIC COMPETITION DI POLITEKNIK NEGERI SRIWIJAYA	2017
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PENGALAMAN ORGANISASI

NO	PENGALAMAN ORGANISASI	TAHUN
1	ANGGOTA OSIS SMP SANTA MARIA	2011
2	KETUA OSIS SMA PGRI PRABUMULIH	2014-2015
3	UKM SENI DIVISI MUSIK POLSRI	2015

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

Palembang, Juli 2019

(Hermika Yuliana Sitompul)

PENGANGGARAN BIAYA

NO	Material	Justifikasi Pemakaian	Kuantitas	Harga Satuan (Rp)	Harga Peralatan Penunjang (Rp)
A. Peralatan Penunjang					
1.	Smartphone	Alat Komunikasi	1 Buah	700.000	700.000
B. Peralatan Habis Pakai					
1.	Software Creator	Alat Pembuatan Program	1 Buah	<i>free</i>	<i>free</i>
2.	Software Android Studio	Alat Pembuatan Program	1 Buah	<i>free</i>	<i>free</i>
2. Lain-Lain					
1.	Pembuatan Buku Tugas Akhir	Alat Persyaratan TA	6 Buah	45.000	270.000
2.	Pendaftaran Publikasi Jurnal	Publikasi	1 kali	500.000	500.000
3.	Alat tulis, kertas, tinta printer, dan lain sebagainya	Alat Pembelajaran	1	100.000	100.000
Total			1.570.000		



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Medan, 6 Juli 2019

No : 005/P3M/MIB/LOA/VII/2019
Lamp : -
Hal : Surat Penerimaan Naskah Publikasi Jurnal

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Ibu **Hermika Yuliana Sitompul**
Di Tempat

Terimakasih telah mengirimkan artikel ilmiah untuk diterbitkan pada **Media Informatika Budidarma** (eISSN 2548-8368 / pISSN 2614-5278), dengan judul:

Aplikasi Bimbingan Tugas Akhir Menggunakan Notifikasi Berbasis Android


Penulis: Irma Salamah¹, Lindawati², Hermika Yuliana Sitompul³*

Berdasarkan hasil review, artikel tersebut dinyatakan DITERIMA untuk dipublikasikan pada Volume 3, Nomor 3, Juli 2019.

Demikian informasi yang kami sampaikan, atas perhatiannya kami ucapkan terimakasih.

Hormat Kami,




Surya Darma Nasution, M.Kom
Ketua Editor
P3M STMIK Budi Darma



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Hormat Kami,




Surya Darma Nasution, M.Kom
Ketua Editor
P3M STMIK Budi Darma

Lampiran Coding Program Database

- **Crud Informasi**

```
<?php
class Notification{
    private $title;
    private $message;
    private $image_url;
    private $action;
    private $action_destination;
    private $data;
    function __construct(){
    }
    public function setTitle($title){
        $this->title = $title;
    }
    public function setMessage($message){
        $this->message = $message;
    }
    public function setImage($imageUrl){
        $this->image_url = $imageUrl;
    }
    public function setAction($action){
        $this->action = $action;
    }
    public function setActionDestination($actionDestination){
        $this->action_destination = $actionDestination;
    }
    public function setPayload($data){
        $this->data = $data;
    }
    public function getNotificatin(){
        $notification = array();
        $notification['title'] = $this->title;
        $notification['message'] = $this->message;
        $notification['image'] = $this->image_url;
        $notification['action'] = $this->action;
        $notification['action_destination'] = $this->action_destination;
        return $notification;
    }
}
```

```

}
class Crud_informasi extends CI_Controller{
    function __construct(){
        parent::__construct();
        $this->load->model('Model_informasi');
        $this->load->helper('url');
    }
    function index(){
        $data['user'] = $this->Model_informasi->tampil_data()->result();
        $this->load->view('Header');
        $this->load->view('Tampil_informasi',$data);
        $this->load->view('Footer');
    }
    function tambah(){
        $this->load->view('Header');
        $this->load->view('Input_informasi');
        $this->load->view('Footer');
    }
    function hapus($id){
        $where = array('id' => $id);
        $this->Model_informasi->hapus_data($where,'informasi');
        redirect('Crud_informasi/index');
    }
    function edit($id){
        $where = array('id' => $id);
        $data['informasi'] = $this->Model_informasi->edit_data($where,'informasi')->result();
        $this->load->view('Header',$data);
        $this->load->view('Edit_informasi',$data);
        $this->load->view('Footer',$data);
    }
    function update(){
        $id = $this->input->post('id');
        $nip = $this->input->post('nip');
        $isi_informasi = $this->input->post('isi_informasi');
        $tanggal = $this->input->post('tanggal');
        $data = array(
            'id' => $id,
            'nip' => $nip,
            'isi_informasi' => $isi_informasi,
            'tanggal' => $tanggal
        );
    }
}

```



```

);
$where = array(
    'id' => $id
);
$this->Model_informasi->update_data($where,$data,'informasi');
redirect('Crud_informasi/index');
}
function tambah_aksi(){
    $id = $this->input->post('id');
    $nip = $this->input->post('nip');
    $isi_informasi = $this->input->post('isi_informasi');
    $tanggal = $this->input->post('tanggal');
    $data = array(
        'id' => $id,
        'nip' => $nip,
        'isi_informasi' => $isi_informasi,
        'tanggal' => $tanggal
    );
    // require_once __DIR__ . '/Notification.php';
    $notification = new Notification();
    $title = 'Pengumuman';
    $message = $isi_informasi;
    $imageUrl = "";
    $action = "";
    $actionDestination = "";
    if($actionDestination == ""){
        $action = "";
    }
    $notification->setTitle($title);
    $notification->setMessage($message);
    $notification->setImage($imageUrl);
    $notification->setAction($action);
    $notification->setActionDestination($actionDestination);
    $firebase_token = "";
    $firebase_api = 'AAAA7PLF8N0:APA91bG6TGyKwdBVI7Pqr-
1LcJcDQcybpF1r3XwEbsMMF0_517zjhWiAMTIDHK_4B0arjeDFQMWi3RoiJeEP9qZGE803
vQO_UUN8SBgaK2-kBrxzSDMJICTK4acg13Ln6Y7k7zerk-sg';
    $topic = 'global';
    $requestData = $notification->getNotificatin();
    $fields = array(

```

```

'to' => '/topics/' . $topic,
'data' => $requestData,
);
// Set POST variables
$url = 'https://fcm.googleapis.com/fcm/send';
$headers = array(
'Authorization: key=' . $firebase_api,
'Content-Type: application/json'
);
// Open connection
$ch = curl_init();
// Set the url, number of POST vars, POST data
curl_setopt($ch, CURLOPT_URL, $url);
curl_setopt($ch, CURLOPT_POST, true);
curl_setopt($ch, CURLOPT_HTTPHEADER, $headers);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
// Disabling SSL Certificate support temporarily
curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, false);
curl_setopt($ch, CURLOPT_POSTFIELDS, json_encode($fields));
// Execute post
$result = curl_exec($ch);
if($result === FALSE){
die('Curl failed: ' . curl_error($ch));
}
$this->Model_informasi->input_data($data,'informasi');
    redirect('crud_informasi');
}
}

```

- **Crud Dosen**

```

<?php
class Crud_tabel_dosen extends CI_Controller{
    function __construct(){
        parent::__construct();
        $this->load->model('Model_tabel_dosen');
        $this->load->helper('url');
    }
}

```

```

}
function index(){
    $data['tabel_dosen'] = $this->Model_tabel_dosen->tampil_data()->result();
    $this->load->view('Header');
    $this->load->view('Tampil_dosen',$data);
    $this->load->view('Footer');
}
function edit($nip){
    $where = array('nip' => $nip);
    $data['tabel_dosen'] = $this->Model_tabel_dosen->edit_data($where,'tabel_dosen')-
>result();
    $this->load->view('Header',$data);
    $this->load->view('Edit_tabel_dosen',$data);
    $this->load->view('Footer',$data);
}
function hapus($nip){
    $where = array('nip' => $nip);
    $this->Model_tabel_dosen->hapus_data($where,'tabel_dosen');
    redirect('Crud_tabel_dosen/index');
}
function update(){
    $nama = $this->input->post('nama');
    $nip = $this->input->post('nip');
    $password = $this->input->post('password');
    $status = $this->input->post('status');
    $data = array(
        'nama' => $nama,
        'nip' => $nip,
        'password' => $password,
        'status' => $status
    );
    $where = array(
        'nip' => $nip
    );
    $this->Model_tabel_dosen->update_data($where,$data,'tabel_dosen');
    redirect('Crud_tabel_dosen/index');
}
function tambah(){
    $this->load->view('Header');
    $this->load->view('Input_tabel_dosen');
}

```

```

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

    function tambah_aksi(){
        $nama = $this->input->post('nama');
        $nip = $this->input->post('nip');
        $password = $this->input->post('password');
        $status = $this->input->post('status');
        $data = array(
            'nama' => $nama,
            'nip' => $nip,
            'password' => $password,
            'status' => $status
        );
        $this->Model_tabel_dosen->input_data($data,'tabel_dosen');
        redirect('Crud_tabel_dosen/index');
    }
}
?>

```

- **Crud Konsultasi**

```

<?php
class Crud_tabel_konsultasi extends CI_Controller{
    function __construct(){
        parent::__construct();
        $this->load->model('Model_tabel_konsultasi');
        $this->load->helper('url');
    }

    function index(){
        $data['user'] = $this->Model_tabel_konsultasi->tampil_data()->result();
        $this->load->view('Header');
        $this->load->view('Tampil_konsultasi',$data);
        $this->load->view('Footer');
    }
    function edit($id){
        $where = array('id' => $id);

```

```

        $data['tabel_konsultasi'] = $this->Model_tabel_konsultasi-
>edit_data($where,'tabel_konsultasi')->result();
        $this->load->view('Header',$data);
        $this->load->view('Edit_tabel_konsultasi',$data);
        $this->load->view('Footer',$data);
    }
    function hapus($id){
        $where = array('id' => $id);
        $this->Model_tabel_konsultasi->hapus_data($where,'tabel_konsultasi');
        redirect('Crud_tabel_konsultasi/index');
    }
    function update(){
        $id = $this->input->post('id');
        $nim = $this->input->post('nim');
        $nip = $this->input->post('nip');
        $tanggal_upload = $this->input->post('tanggal_upload');
        $file = $this->input->post('file');
        $uraian_bimbingan = $this->input->post('uraian_bimbingan');
        $bab = $this->input->post('bab');

        $data = array(
            'id' => $id,
            'nim' => $nim,
            'nip' => $nip,
            'tanggal_upload' => $tanggal_upload,
            'file' => $file,
            'uraian_bimbingan' => $uraian_bimbingan,
            'bab' => $bab,
        );

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

        $this->Model_tabel_konsultasi->update_data($where,$data,'tabel_konsultasi');
        redirect('Crud_tabel_konsultasi/index');

    }
    function tambah(){

```

```

$this->load->view('Header');
$this->load->view('Input_tabel_konsultasi');
$this->load->view('Footer');
}
function tambah_aksi(){

    $id = $this->input->post('id');
    $nim = $this->input->post('nim');
    $nip = $this->input->post('nip');
    $tanggal_upload = $this->input->post('tanggal_upload');
    $file = $this->input->post('file');
    $uraian_bimbingan = $this->input->post('uraian_bimbingan');
    $bab = $this->input->post('bab');

    $data = array(
        'id' => $id,
        'nim' => $nim,
        'nip' => $nip,
        'tanggal_upload' => $tanggal_upload,
        'file' => $file,
        'uraian_bimbingan' => $uraian_bimbingan,
        'bab' => $bab,
    );
    $this->Model_tabel_konsultasi->input_data($data,'tabel_konsultasi');
    redirect('Crud_tabel_konsultasi/index');
}
}
?>

```

- **Crud Mahasiswa**

```

<?php
class Crud_tabel_mahasiswa extends CI_Controller{

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

    function index(){

```

```

    $data['user'] = $this->Model_tabel_mahasiswa->tampil_data()->result();
    $this->load->view('Header');
    $this->load->view('Tampil_mahasiswa',$data);
    $this->load->view('Footer');
}
function edit($nim){
    $where = array('nim' => $nim);
    $data['tabel_mahasiswa'] = $this->Model_tabel_mahasiswa-
>edit_data($where,'tabel_mahasiswa')->result();
    $this->load->view('Header',$data);
    $this->load->view('Edit_tabel_mahasiswa',$data);
    $this->load->view('Footer',$data);

}
function hapus($nim){
    $where = array('nim' => $nim);
    $this->Model_tabel_mahasiswa->hapus_data($where,'tabel_mahasiswa');
    redirect('Crud_tabel_mahasiswa/index');
}
function update(){
    $nama = $this->input->post('nama');
    $nim = $this->input->post('nim');
    $kelas = $this->input->post('kelas');
    $password = $this->input->post('password');
    $nip1 = $this->input->post('nip1');
    $nip2 = $this->input->post('nip2');
    $judul_ta = $this->input->post('judul_ta');
    $data = array(
        'nama' => $nama,
        'nim' => $nim,
        'kelas' => $kelas,
        'password' => $password,
        'nip1' => $nip1,
        'nip2' => $nip2,
        'judul_ta' => $judul_ta
    );

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

```

```

$this->Model_tabel_mahasiswa->update_data($where,$data,'tabel_mahasiswa');
redirect('Crud_tabel_mahasiswa/index');
}
function tambah(){
    $this->load->view('Header');
    $this->load->view('Input_tabel_mahasiswa');
    $this->load->view('Footer');
}
function tambah_aksi(){
    $nama = $this->input->post('nama');
    $nim = $this->input->post('nim');
    $kelas = $this->input->post('kelas');
    $password = $this->input->post('password');
    $nip1 = $this->input->post('nip1');
    $nip2 = $this->input->post('nip2');
    $judul_ta = $this->input->post('judul_ta');

    $data = array(
        'nama' => $nama,
        'nim' => $nim,
        'kelas' => $kelas,
        'password' => $password,
        'nip1' => $nip1,
        'nip2' => $nip2,
        'judul_ta' => $judul_ta
    );
    $this->Model_tabel_mahasiswa->input_data($data,'tabel_mahasiswa');
    redirect('Crud_tabel_mahasiswa/index');
}
}
?>

```

- **Model Informasi**

```

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

```



```

function edit_data($where,$table){
    return $this->db->get_where($table,$where);
}
function hapus_data($where,$table){
    $this->db->where($where);
    $this->db->delete($table);
}
function update_data($where,$data,$table){
    $this->db->where($where);
    $this->db->update($table,$data);
}
function input_data($data,$table){
    $this->db->insert($table,$data);
}
}

```

- **Model Konsultasi**

```

<?php
class Model_tabel_konsultasi extends CI_Model{
    function tampil_data(){
        return $this->db->get('tabel_konsultasi');
    }
    function edit_data($where,$table){
        return $this->db->get_where($table,$where);
    }
    function hapus_data($where,$table){
        $this->db->where($where);
        $this->db->delete($table);
    }
    function update_data($where,$data,$table){
        $this->db->where($where);
        $this->db->update($table,$data);
    }
    function input_data($data,$table){
        $this->db->insert($table,$data);
    }
}
?>

```

- **Model Mahasiswa**

```
<?php
class model_tabel_mahasiswa extends CI_Model{
    function tampil_data(){
        return $this->db->get('tabel_mahasiswa');
    }
    function edit_data($where,$table){
        return $this->db->get_where($table,$where);
    }
    function hapus_data($where,$table){
        $this->db->where($where);
        $this->db->delete($table);
    }
    function update_data($where,$data,$table){
        $this->db->where($where);
        $this->db->update($table,$data);
    }
    function input_data($data,$table){
        $this->db->insert($table,$data);
    }
}
?>
```

- **Edit Informasi**

```
<center>
<h1>Infomasi</h1>
<h3>Edit Data</h3>
</center>
<?php foreach($informasi as $u){ ?>
<form action="<?php echo base_url(). 'index.php/Crud_informasi/update'; ?>"
method="post">
<table style="margin:20px auto;">
<tr>
<td>Password</td>
<td>
<input type="hidden" name="id" value="<?php echo $u->id ?>">
<input type="text" name="id" value="<?php echo $u->id ?>">
</td>
```

```

</tr>
<tr>
<td>Nip</td>
<td><input type="text" name="nip" value="<?php echo $u->nip ?>"></td>
</tr>
<tr>
<td>isi_informasi</td>
<td><input type="text" name="isi_informasi" value="<?php echo $u->isi_informasi
?>"></td>
</tr>
<tr>
<td>tanggal</td>
<td><input type="text" name="tanggal" value="<?php echo $u->tanggal ?>"></td>
</tr>
<tr>
<td></td>
<td><input type="submit" value="Simpan"></td>
</tr>
</table>
</form>
<?php } ?>

```

- **Edit Dosen**

```

<center>
<h1>Infomasi</h1>
<h3>Edit Data</h3>
</center>
<?php foreach($informasi as $u){ ?>
<form action="<?php echo base_url(). 'index.php/Crud_informasi/update'; ?>"
method="post">
<table style="margin:20px auto;">
<tr>
<td>Password</td>
<td>
<input type="hidden" name="id" value="<?php echo $u->id ?>">
<input type="text" name="id" value="<?php echo $u->id ?>">
</td>
</tr>
<tr>

```

```

<td>Nip</td>
<td><input type="text" name="nip" value="<?php echo $u->nip ?>"></td>
</tr>
<tr>
<td>isi_informasi</td>
<td><input type="text" name="isi_informasi" value="<?php echo $u->isi_informasi
?>"></td>
</tr>
<tr>
<td>tanggal</td>
<td><input type="text" name="tanggal" value="<?php echo $u->tanggal ?>"></td>
</tr>
<tr>
<td></td>
<td><input type="submit" value="Simpan"></td>
</tr>
</table>
</form>
<?php } ?>

```

- **Edit Konsultasi**

```

<center>
<h1> Konsultasi </h1>
<h3>Edit Data</h3>
</center>
<?php foreach($tabel_konsultasi as $u){ ?>
<form action="<?php echo base_url(). 'index.php/Crud_tabel_konsultasi/update'; ?>"
method="post">
<table style="margin:20px auto;">
<tr>
<td>Password</td>
<td>
<input type="hidden" name="id" value="<?php echo $u->id ?>">
<input type="text" name="id" value="<?php echo $u->id ?>">
</td>
</tr>
<tr>
<td>id</td>
<td><input type="text" name="id" value="<?php echo $u->id ?>"></td>

```

```
</tr>
<tr>
<td>Nim</td>
<td><input type="text" name="nim" value="<?php echo $u->nim ?>"></td>
</tr>
<tr>
<td>Nip</td>
<td><input type="text" name="nip" value="<?php echo $u->nip ?>"></td>
</tr>
<tr>
<td>tanggal_upload</td>
<td><input type="text" name="tanggal_upload" value="<?php echo $u->tanggal_upload
?>"></td>
</tr>
<tr>
<td>file</td>
<td><input type="text" name="file" value="<?php echo $u->file ?>"></td>
</tr>
<tr>
<td>uraian_bimbingan</td>
<td><input type="text" name="uraian_bimbingan" value="<?php echo $u-
>uraian_bimbingan ?>"></td>
</tr>
<td>bab</td>
<td><input type="text" name="bab" value="<?php echo $u->bab ?>"></td>
</tr>
<tr>
<td>status</td>
<td><input type="text" name="status" value="<?php echo $u->status ?>"></td>
</tr>
<tr>
<td></td>
<td><input type="submit" value="Simpan"></td>
</tr>
</table>
</form>
<?php } ?>
```

- **Edit Mahasiswa**

```
<center>
<h1> Mahasiswa </h1>
<h3>Edit Data</h3>
</center>
<?php foreach($tabel_mahasiswa as $u){ ?>
<form action="<?php echo base_url(). 'index.php/Crud_tabel_mahasiswa/update'; ?>"
method="post">
<table style="margin:20px auto;">
<tr>
<td>Password</td>
<td>
<input type="hidden" name="nim" value="<?php echo $u->nim ?>">
<input type="text" name="password" value="<?php echo $u->password ?>">
</td>
</tr>
<tr>
<td>Nama</td>
<td><input type="text" name="nama" value="<?php echo $u->nama ?>"></td>
</tr>
<tr>
<td>Kelas</td>
<td><input type="text" name="kelas" value="<?php echo $u->kelas ?>"></td>
</tr>
<tr>
<td>nip1</td>
<td><input type="text" name="nip1" value="<?php echo $u->nip1 ?>"></td>
</tr>
<tr>
<td>nip2</td>
<td><input type="text" name="nip2" value="<?php echo $u->nip2 ?>"></td>
</tr>
<tr>
<td>judul_ta</td>
<td><input type="text" name="judul_ta" value="<?php echo $u->judul_ta?>"></td>
</tr>
<tr>
<td></td>
<td><input type="submit" value="Simpan"></td>
</tr>
```

```
</table>
</form>
<?php } ?>
```

Lampiran Coding Program Android

- **Splashscreen**

```
package polsri.mikhays.myabita;
import android.app.Activity;
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 SplashActivity 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(SplashActivity.this,Login.class);
        startActivity (pindah);
        finish();
    }
};
waktu_tunggu.start();
}
}

```

- **Login**

```

package polsri.mikhays.myabita;

```

```

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.AdapterView;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Spinner;
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.google.firebase.FirebaseApp;
import com.google.firebase.messaging.FirebaseMessaging;

import org.json.JSONException;
import org.json.JSONObject;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

import polsri.mikhays.myabita.Bantuan.AppConfig;

```



```

import polsri.mikhays.myabita.Bantuan.MyApplication;
import polsri.mikhays.myabita.services.MyFirebaseMessagingService;

public class Login extends AppCompatActivity {

    ProgressDialog pDialog;
    Button btn_login, btn_change_password;
    EditText txt_nim, txt_password;
    Intent intent;
    Spinner spinnerpilih;

    int success;
    ConnectivityManager conMgr;

    private String url = AppConfig.SERVER_DATA + "login.php";

    private static final String TAG = Login.class.getSimpleName();

    private static final String TAG_SUCCESS = "success";
    private static final String TAG_MESSAGE = "message";

    public final static String TAG_nim = "nim";
    public final static String TAG_nama = "nama";
    public final static String TAG_kelas = "kelas";
    public final static String TAG_nip1 = "nip1";
    public final static String TAG_nip2 = "nip2";
    public final static String TAG_judul_ta = "judul_ta";
    public final static String TAG_ID = "id";
    public final static String TAG_nip = "nip";
    public final static String TAG_status = "status";

    String tag_json_obj = "json_obj_req";

    SharedPreferences sharedpreferences;
    Boolean session = false;
    String id, nim;
    public static final String my_shared_preferences = "my_shared_preferences";
    public static final String session_status = "session_status";

    @SuppressWarnings("MissingPermission")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.login);
    }
}

```

```

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_change_password = (Button) findViewById(R.id.btn_change_password);
txt_nim = (EditText) findViewById(R.id.textnim);
txt_password = (EditText) findViewById(R.id.textpassword);
final List<String> spinnerArray = new ArrayList<>();
spinnerArray.add("Mahasiswa");
spinnerArray.add("Dosen");

ArrayAdapter<String> adapter = new ArrayAdapter<String>(
    this, android.R.layout.simple_spinner_item, spinnerArray);

adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
spinnerpilih = (Spinner) findViewById(R.id.spinnerpilih);
spinnerpilih.setAdapter(adapter);

sharedpreferences = getSharedPreferences(my_shared_preferences,
Context.MODE_PRIVATE);
session = sharedpreferences.getBoolean(session_status, false);
id = sharedpreferences.getString(TAG_ID, null);
nim = sharedpreferences.getString(TAG_nim, null);

btn_change_password.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        if (spinnerpilih.getSelectedItem().toString().equals("Mahasiswa")) {
            Intent pindah = new Intent(Login.this,
                change_password_mahasiswa.class);
            startActivity(pindah);
        } else {
            Intent pindah = new Intent(Login.this,
                change_password_dosen.class);
            startActivity(pindah);
        }
    }
}

```

```
    }  
  }}  
);
```

```
btn_login.setOnClickListener(new View.OnClickListener()
```

```
{  
  
    @SuppressWarnings("MissingPermission")  
    @Override  
    public void onClick (View v){  
        // TODO Auto-generated method stub  
        String nim = txt_nim.getText().toString();  
        String password = txt_password.getText().toString();  
  
        if (nim.trim().length() > 0 && password.trim().length() > 0) {  
            if (conMgr.getActiveNetworkInfo() != null  
                && conMgr.getActiveNetworkInfo().isAvailable()  
                && conMgr.getActiveNetworkInfo().isConnected()) {  
                checkLogin(nim, password);  
            } else {  
                Toast.makeText(getApplicationContext(), "No Internet Connection",  
                    Toast.LENGTH_LONG).show();  
            }  
        } else {  
  
            Toast.makeText(getApplicationContext(), "Kolom tidak boleh kosong",  
                Toast.LENGTH_LONG).show();  
        }  
    }  
});  
}
```

```
private void checkLogin ( final String nim, 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) {
        if (spinnerpilih.getSelectedItem().toString().equals("Mahasiswa")) {
            String nim = jsonObj.getString(TAG_nim);
            String nama = jsonObj.getString(TAG_nama);
            String kelas = jsonObj.getString(TAG_kelas);
            String nip1 = jsonObj.getString(TAG_nip1);
            String nip2 = jsonObj.getString(TAG_nip2);
            String judul_ta = jsonObj.getString(TAG_judul_ta);
            MenuActivity.nim = nim;
            MenuActivity.nama = nama;
            MenuActivity.kelas = kelas;
            MenuActivity.nip1 = nip1;
            MenuActivity.nip2 = nip2;
            MenuActivity.judul_ta = judul_ta;
            MenuActivity.status = "Mahasiswa";

            FirebaseMessaging.getInstance().subscribeToTopic(nip1);
            FirebaseMessaging.getInstance().subscribeToTopic(nip2);

        } else {
            String nama = jsonObj.getString(TAG_nama);
            String nip = jsonObj.getString(TAG_nip);
            String status = jsonObj.getString(TAG_status);
            MenuActivity.nama = nama;
            MenuActivity.nip = nip;
            MenuActivity.status = status;
        }
    }
}
```

```
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_nim, nim);
editor.commit();
```

```

        Intent intent = new Intent(Login.this, MenuActivity.class);

        Toast.makeText(getApplicationContext(),
            "SUKSES", Toast.LENGTH_LONG).show();
        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("nim", nim);
        params.put("password", password);
        params.put("jenis", spinnerpilih.getSelectedItem().toString());

        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();
    }
}

```

- **Menu Activity**

```
package polsri.mikhays.myabita;
```

```

import android.app.Activity;
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;
import android.widget.ImageView;

```

```
import polsri.mikhays.myabita.Model.Model_Mahasiswa;
```

```

public class MenuActivity extends AppCompatActivity {
    Button btn_Lihat_Bimbingan;
    ImageView imageViewDaftarNama , imageView_Bimbingan , imageView_Pengumuman
, imageView_Exit;

```

```

    public static String nim;
    public static String nama;
    public static String kelas;
    public static String nip1;
    public static String nip2;
    public static String judul_ta;
    public static String nip;
    public static String status;

```

```
@Override
```

```

protected void onCreate(@Nullable Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);

```

```

setContentView(R.layout.layarmenu);
imageViewDaftarNama = (ImageView) findViewById(R.id.imageView_DaftarNama);
imageView_Bimbingan = (ImageView) findViewById(R.id.imageView_Bimbingan);
btn_Lihat_Bimbingan = (Button) findViewById(R.id.Lihat_Bimbingan);
imageView_Pengumuman = (ImageView)
findViewById(R.id.imageView_Pengumuman);
imageView_Exit = (ImageView) findViewById(R.id.imageView_Exit);

if (status.equals("Mahasiswa")){
    imageViewDaftarNama.setVisibility(View.GONE);
    btn_Lihat_Bimbingan.setVisibility(View.GONE);
}else{
    btn_Lihat_Bimbingan.setVisibility(View.GONE);
    imageView_Bimbingan.setVisibility(View.GONE);
}

imageViewDaftarNama.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        TampilListNama.nim = nim;
        Intent pindah = new Intent(MenuActivity.this,
            TampilListNama.class);
        startActivity(pindah);
    }
});
imageView_Bimbingan.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        Model_Mahasiswa mhs = new Model_Mahasiswa();
        mhs.setNim(nim);
        TampilListKeteranganBimbingan.mahasiswa_tepilih=mhs;
        Intent pindah = new Intent(MenuActivity.this,
            TampilListPembimbing.class);
        startActivity(pindah);
    }
});
btn_Lihat_Bimbingan.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        Intent pindah = new Intent(MenuActivity.this,
            TampilListKeteranganBimbingan.class);
        startActivity(pindah);
    }
});

```

```

imageView_Pengumuman.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        Intent pindah = new Intent(MenuActivity.this,
            TampilListPengumuman.class);
        startActivity(pindah);
    }
});
imageView_Exit.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        Intent pindah = new Intent(MenuActivity.this,
            Login.class);
        startActivity(pindah);
    }
});

}
}

```

- **Tampil List Mahasiswa**

```

package polsri.mikhays.myabita;

```

```

import android.app.Activity;
import android.content.Intent;
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.Button;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.JsonArrayRequest;
import com.google.gson.Gson;
import com.google.gson.reflect.TypeToken;
import org.json.JSONArray;
import java.util.ArrayList;
import java.util.List;
import polsri.mikhays.myabita.Adapter.AdapterMahasiswa;

```



```

import polsri.mikhays.myabita.Bantuan.AppConfig;
import polsri.mikhays.myabita.Bantuan.MyApplication;
import polsri.mikhays.myabita.Model.Model_Mahasiswa;
import polsri.mikhays.myabita.Model.Model_Pilih_Pembimbing;

public class TampilListNama extends AppCompatActivity {
    ListView list_bimbingan;
    TextView textnip;
    Button btn_kembali ;
    public static String nim;

    ArrayList<Model_Mahasiswa> dataModels;
    private static AdapterMahasiswa adapter;

    @Override
    protected void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.layar_list_nama);
        list_bimbingan = (ListView) findViewById(R.id.List_bimbingan);

        dataModels = new ArrayList<>();
        adapter = new AdapterMahasiswa(this, dataModels);

        ambil_data_mahasiswa();
        list_bimbingan.setAdapter(adapter);

        list_bimbingan.setOnClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
                Model_Mahasiswa Mahasiswa_Terpilih = dataModels.get(position);
                Model_Pilih_Pembimbing pembimbing = new Model_Pilih_Pembimbing();
                pembimbing.setNip(MenuActivity.nip);
                TampilListKeteranganBimbingan.Pembimbing_Terpilih = pembimbing;
                TampilListKeteranganBimbingan.mahasiswa_tepilih=Mahasiswa_Terpilih;
                Intent pindah = new
                Intent(TampilListNama.this,TampilListKeteranganBimbingan.class);
                startActivity(pindah);
            }
        });
    }
    private static final String TAG = "Tampil List Nama";
    private static final String URL = AppConfig.SERVER_DATA + "TampilListNama.php";
    private void ambil_data_mahasiswa() {

        JSONArrayRequest request= new JSONArrayRequest(URL + "?q=" + MenuActivity.nip ,
            new Response.Listener<JSONArray>() {

```

```

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

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

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

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

```

- **Tampil List Dosen**

```

package polsri.mikhays.myabita;

import android.app.Activity;
import android.content.Intent;
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.Button;
import android.widget.ListView;
import android.widget.Toast;

```

```

import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.JsonArrayRequest;
import com.google.gson.Gson;
import com.google.gson.reflect.TypeToken;
import org.json.JSONArray;
import java.util.ArrayList;
import java.util.List;
import polsri.mikhays.myabita.Adapter.AdapterPilihPembimbing;
import polsri.mikhays.myabita.Bantuan.AppConfig;
import polsri.mikhays.myabita.Bantuan.MyApplication;
import polsri.mikhays.myabita.Model.Model_Pilih_Pembimbing;

public class TampilListPembimbing extends AppCompatActivity {
    ListView list_pembimbing;
    Button btn_kembali;

    ArrayList<Model_Pilih_Pembimbing> dataModels;
    private static AdapterPilihPembimbing adapter;

    @Override
    protected void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.layar_list_pembimbing);
        list_pembimbing = (ListView) findViewById(R.id.List_bimbingan);

        dataModels = new ArrayList<>();
        adapter = new AdapterPilihPembimbing(this, dataModels);

        ambil_data_pilih_pembimbing();
        list_pembimbing.setAdapter(adapter);
        list_pembimbing.setOnClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
                Model_Pilih_Pembimbing Pembimbing_Terpilih = dataModels.get(position);
                TampilListKeteranganBimbingan.Pembimbing_Terpilih=Pembimbing_Terpilih;
                Intent pindah = new
Intent(TampilListPembimbing.this,TampilListKeteranganBimbingan.class);
                startActivity(pindah);
            }
        });
    }
    private static final String TAG = "Tampil List Pembimbing";
    private static final String URL = AppConfig.SERVER_DATA +
    "TampilListPilihPembimbing.php";

```

```

private void ambil_data_pilih_pembimbing() {

    JSONArrayRequest request= new JSONArrayRequest(URL + "?q="+MenuActivity.nim,
        new Response.Listener<JSONArray>() {
            @Override
            public void onResponse(JSONArray response) {
                if (response == null) {
                    Toast.makeText(TampilListPembimbing.this, "Couldn't fetch the store items!
Pleas try again.", Toast.LENGTH_LONG).show();
                    return;
                }
                List<Model_Pilih_Pembimbing> items = new
Gson().fromJson(response.toString(), new TypeToken<List<Model_Pilih_Pembimbing>>() {
                    }.getType());
                dataModels.clear();
                dataModels.addAll(items);
                dataModels.get(0).setDosbing("Pembimbing1");
                dataModels.get(1).setDosbing("Pembimbing2");
                adapter.notifyDataSetChanged();
            }
        }, new Response.ErrorListener() {
            @Override
            public void onErrorResponse(VolleyError error) {
                Log.e(TAG, "Error: " + error.getMessage());
                Toast.makeText(TampilListPembimbing.this, "Error: " + error.getMessage(),
Toast.LENGTH_SHORT).show();
            }
        }
    );

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

```

- **Tampil List Bimbingan**

```

package polsri.mikhays.myabita;
import android.app.Activity;
import android.os.Bundle;
import android.support.annotation.Nullable;
import android.support.v7.app.AppCompatActivity;
import android.util.Log;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.JsonArrayRequest;

```

```

import com.google.gson.Gson;
import com.google.gson.reflect.TypeToken;
import org.json.JSONArray;
import java.net.ResponseCache;
import java.util.ArrayList;
import java.util.List;
import polsri.mikhays.myabita.Adapter.AdapterListBimbingan;
import polsri.mikhays.myabita.Bantuan.AppConfig;
import polsri.mikhays.myabita.Bantuan.MyApplication;
import polsri.mikhays.myabita.Model.Model_Bimbingan;

public class TampilList extends AppCompatActivity {
    ListView list_bimbingan;

    ArrayList<Model_Bimbingan>dataModels;
    private static AdapterListBimbingan adapter;

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

        list_bimbingan = (ListView) findViewById(R.id.List_bimbingan);
        dataModels = new ArrayList<>();
        adapter = new AdapterListBimbingan(this, dataModels);

        ambil_data_bimbingan();
        list_bimbingan.setAdapter(adapter);
    }
    private static final String TAG = "Tampil List";
    private static final String URL = AppConfig.SERVER_DATA + "TampilList.php";
    private void ambil_data_bimbingan() {

        JSONArrayRequest request= new JSONArrayRequest(URL + "?q=1234",
            new Response.Listener<JSONArray>() {
                @Override
                public void onResponse(JSONArray response) {
                    if (response == null) {
                        Toast.makeText(TampilList.this, "Couldn't fetch the store items! Pleas try again.", Toast.LENGTH_LONG).show();
                        return;
                    }
                    List<Model_Bimbingan> items = new Gson().fromJson(response.toString(),
new TypeToken<List<Model_Bimbingan>>() {
                        }.getType());

```

```

        dataModels.clear();
        dataModels.addAll(items);
        adapter.notifyDataSetChanged();
    }
}, new Response.ErrorListener() {
    @Override
    public void onErrorResponse(VolleyError error) {
        Log.e(TAG, "Error: " + error.getMessage());
        Toast.makeText(TampilList.this, "Error: " + error.getMessage(),
Toast.LENGTH_SHORT).show();
    }
}
);

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

}

```

- **Tampil List Pengumuman**

```

package polsri.mikhays.myabita;
import android.annotation.SuppressLint;
import android.app.Activity;
import android.content.Intent;
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.Button;
import android.widget.ListView;
import android.widget.Toast;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.JsonArrayRequest;
import com.google.gson.Gson;
import com.google.gson.reflect.TypeToken;
import org.json.JSONArray;
import java.util.ArrayList;
import java.util.List;
import polsri.mikhays.myabita.Adapter.AdapterPengumuman;
import polsri.mikhays.myabita.Bantuan.AppConfig;
import polsri.mikhays.myabita.Bantuan.MyApplication;
import polsri.mikhays.myabita.Model.Model_Pengumuman;

```

```

public class TampilListPengumuman extends AppCompatActivity {
    ListView list_pengumuman;
    Button btn_kembali;
    Button btn_tambah;

    public static Model_Pengumuman Pengumuman_Terpilih;
    ArrayList<Model_Pengumuman> dataModels;
    private static AdapterPengumuman adapter;

    @Override
    protected void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.layar_list_pengumuman);
        list_pengumuman= (ListView) findViewById(R.id.List_pengumuman);
        btn_tambah = (Button)findViewById(R.id.btn_tambah);
        btn_tambah.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent pindah = new Intent(TampilListPengumuman.this,
                    proses_pengumuman.class);
                startActivity(pindah);
            }
        });
        if (MenuActivity.status.equals("Mahasiswa")){
            btn_tambah.setVisibility(View.GONE);

        }
        dataModels = new ArrayList<>();
        adapter = new AdapterPengumuman(this, dataModels);
        ambil_data_pengumuman();
        list_pengumuman.setAdapter(adapter);
    }
    private static final String TAG = "Tampil List Pengumuman";
    private static final String URL = AppConfig.SERVER_DATA +
    "TampilListPengumuman.php";
    private void ambil_data_pengumuman() {
        JsonRequest request = new JsonRequest (URL +
        "?q="+MenuActivity.nip1+"&p="+MenuActivity.nip2,
        new Response.Listener<JSONArray>() {
            @Override
            public void onResponse(JSONArray response) {
                if (response == null) {
                    Toast.makeText(TampilListPengumuman.this, "Couldn't fetch the store
                    items! Pleas try again.", Toast.LENGTH_LONG).show();
                    return;
                }
            }
        }
    }
}

```

```

        List<Model_Pengumuman> items = new Gson().fromJson(response.toString(),
new TypeToken<List<Model_Pengumuman>>() {
    }.getType());

        dataModels.clear();
        dataModels.addAll(items);
        adapter.notifyDataSetChanged();
    }
    }, new Response.ErrorListener() {
@Override
public void onErrorResponse(VolleyError error) {
    Log.e(TAG, "Error: " + error.getMessage());
    Toast.makeText(TampilListPengumuman.this, "Error: " + error.getMessage(),
Toast.LENGTH_SHORT).show();
    }
    }
);

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

```

- **Notification**

```

package polsri.mikhays.myabita.services;

import android.content.Intent;
import android.util.Log;
import com.google.firebase.messaging.FirebaseMessagingService;
import com.google.firebase.messaging.RemoteMessage;
import java.util.Map;
import polsri.mikhays.myabita.MainActivity;
import polsri.mikhays.myabita.TampilListPengumuman;
import polsri.mikhays.myabita.utils.NotificationUtils;
import polsri.mikhays.myabita.vo.NotificationVO;

public class MyFirebaseMessagingService extends FirebaseMessagingService {
    private static final String TAG = "MyFirebaseMsgingService";
    private static final String TITLE = "title";
    private static final String EMPTY = "";
    private static final String MESSAGE = "message";
    private static final String IMAGE = "image";
    private static final String ACTION = "action";
    private static final String DATA = "data";
    private static final String ACTION_DESTINATION = "action_destination";

```



```

@Override
public void onMessageReceived(RemoteMessage remoteMessage) {

    Log.d(TAG, "From: " + remoteMessage.getFrom());

    // Check if message contains a data payload.
    if (remoteMessage.getData().size() > 0) {
        Log.d(TAG, "Message data payload: " + remoteMessage.getData());
        Map<String, String> data = remoteMessage.getData();
        handleData(data);

    } else if (remoteMessage.getNotification() != null) {
        Log.d(TAG, "Message Notification Body: " +
remoteMessage.getNotification().getBody());
        handleNotification(remoteMessage.getNotification());
    } // Check if message contains a notification payload.

}

private void handleNotification(RemoteMessage.Notification RemoteMsgNotification) {
    String message = RemoteMsgNotification.getBody();
    String title = RemoteMsgNotification.getTitle();
    NotificationVO notificationVO = new NotificationVO();
    notificationVO.setTitle(title);
    notificationVO.setMessage(message);

    Intent resultIntent = new Intent(getApplicationContext(), MainActivity.class);
    NotificationUtils notificationUtils = new NotificationUtils(getApplicationContext());
    notificationUtils.displayNotification(notificationVO, resultIntent);
    notificationUtils.playNotificationSound();
}

private void handleData(Map<String, String> data) {
    String title = data.get(TITLE);
    String message = data.get(MESSAGE);
    String iconUrl = data.get(IMAGE);
    String action = data.get(ACTION);
    String actionDestination = data.get(ACTION_DESTINATION);
    NotificationVO notificationVO = new NotificationVO();
    notificationVO.setTitle(title);
    notificationVO.setMessage(message);
    notificationVO.setIconUrl(iconUrl);
    notificationVO.setAction(action);
    notificationVO.setActionDestination(actionDestination);

    Intent resultIntent = new Intent(getApplicationContext(), TampilListPengumuman.class);






```

```
NotificationUtils notificationUtils = new NotificationUtils(getApplicationContext());  
notificationUtils.displayNotification(notificationVO, resultIntent);  
notificationUtils.playNotificationSound();  
  
    }  
}
```

	KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN POLITEKNIK NEGERI SRIWIJAYA Jalan Srijaya Negara, Palembang 30139 Telp. 0711-353414 Fax. 0711-355918 Website : www.polisriwijaya.ac.id E-mail : info@polsri.ac.id	
	PELAKSANAAN REVISI TUGAS AKHIR	

Mahasiswa berikut,
 Nama : Hermika Yuliana Sitompul
 NIM : 061540352249
 Jurusan/Program Studi : Teknik Elektro/Teknik Telekomunikasi
 Judul Laporan Akhir : Aplikasi Bimbingan Tugas Akhir Menggunakan Notifikasi Berbasis Android

Telah melaksanakan revisi terhadap Tugas Akhir yang diujikan pada hari Rabu tanggal 17 bulan Juli tahun 2019 Pelaksanaan revisi terhadap Tugas Akhir tersebut telah disetujui oleh Dosen Penguji yang memberikan revisi:

No.	Komentar	Nama Dosen Penguji ^{*)}	Tanggal	Tanda Tangan
1	Acc.	Dr.Ing. Ahmad Taqwa, M.T. NIP 196812041997031001	17/7	
2	Acc	Ir. Abdul Rakhman, M.T. NIP 196006241990031002	20/7-2019	
4	Acc, sdh direvisi	Hj. Sarjana, S.T., M.Kom. NIP 196911061995032001	22/7-2019	
5	Acc	R.A. Halimatussa'diyah, S.T., M.Kom. NIP 197406022005012002	21/7 2019	
6	Acc.	Martinus Mujur Rose, S.T., M.T. NIP. 197412022008121002	22/7-2019	

Palembang,
 Ketua Penguji ^{**)},


 (Dr. Dipl. Ing. Ahmad Taqwa, M.T.)
 NIP 196812041997031001

Catatan:

*) Dosen penguji yang memberikan revisi saat ujian laporan akhir.
 **) Dosen penguji yang ditugaskan sebagai Ketua Penguji saat ujian LA.
 Lembaran pelaksanaan revisi ini harus dilampirkan dalam Laporan Akhir.