

## Config.php

```
<?php
$config["server"] = 'localhost';
$config["username"] = 'root';
$config["password"] = '';
$config["database_name"] = 'spkfahp';
```

## Database.php

```
<?php

/**
 * Class database MySQL
 */
class DB
{
    /**
     * menyimpan koneksi database
     */
    var $conn = null;
    /**
     * id auto increment
     */
    public $insert_id = 0;
    /**
     * membuat koneksi ke database
     * @param string $host Alamat host/server MySQL
     * @param string $username Username server MySQL
     * @param string $passwd Password server MySQL
     * @param string $dbname Nama database MySQL
     */
    public function __construct($host, $username, $passwd, $dbname)
    {
        $this->
        >conn = mysqli_connect($host, $username, $passwd, $dbname);
    }
    /**
     * Mengeksekusi perintah SQL
     * @param string $sql Perintah SQL yang ingin dieksekusi
     * @return mysqli_result Hasil query
     */
    public function query($sql)
```

```

    {
$query = mysqli_query($this-
>conn, $sql) or die('<pre>Error mysqli_query: ' . mysqli_error
($this->conn) . '<br />' . $sql . '</pre>');

    //jika query mengandung perintah insert atau replace
    if (preg_match("/^(insert|replace)\s+/i", $sql)) {
        $this->insert_id = @$this->conn->insert_id;
    }
    return $query;
}

public function insert($table, $fields)
{
    $this-
>query("INSERT INTO $table (" . implode(',', array_keys($field
s)) . ")
        VALUES ('" . implode("'", $fields) . "')");}
public function update($table, $fields, $id)
{
    $arr = array();
    foreach ($fields as $key => $val) {
        $arr[$key] = "$key='$val'";
    }
    $this-
>query("UPDATE $table SET " . implode(", ", $arr) . " WHERE " .
key($id) . "='" . current($id) . "'");
}

public function multi_query($table, $data)
{
    $values = array();

    $fields = array_keys(current($data));

    foreach ($data as $key => $val) {
        $values[] = "(" . implode("'", $val) . ")";
    }

    $indeks = 0;
    $max = 200;
    $arr_values = array();
    foreach ($values as $key => $val) {
        $arr_values[$indeks][] = $val;
    }
}

```

```

        if (count($arr_values[$indeks]) >= $max)
            $indeks++;
    }

    foreach ($arr_values as $key => $val) {
        $this->
>query("INSERT INTO $table (" . implode(", ", $fields) . ") VALUES " . implode(", ", $val));
    }
}
/**
 * Mengambil 1 baris data ke dari perintah SQL
 * @param string $sql Perintah SQL
 * @return object Satu baris data
 */
public function get_row($sql)
{
$query = $this->query($sql);
    return mysqli_fetch_object($query);
}
/**
 * Mengambil data ke dari perintah SQL
 * @param string $sql Perintah SQL
 * @return array Data dalam bentuk array object
 */
public function get_results($sql)
{
$query = $this->query($sql);
    $arr = array();
    while ($row = mysqli_fetch_object($query)) {
        $arr[] = $row;
    }
    return $arr;
}
/**
 * Mengambil 1 kolom data ke dari perintah SQL
 * @param string $sql Perintah SQL
 * @return object Satu kolom data
 */
public function get_var($sql)
{
    $query = $this->query($sql);
    $row = mysqli_fetch_row($query);
    if ($row)

```



```

<?php if ($_POST) include 'aksi.php' ?>
<div class="text-center mb-3">

</div>
<div class="mb-3 bg-danger-
subtle">
<input type="text" class="form
-control bg-danger-
subtle" placeholder="Username" name="user" autofocus autocompl
ete="on" />
</div>
<div class="mb-0 bg-danger-
subtle">
<input type="password" class="
form-control bg-danger-
subtle" placeholder="Password" name="pass" />
</div>
</div>
<div class="card-footer">
<button class="btn btn-danger w-
100" type="submit"><i class="fa fa-right-to-
bracket"></i> Masuk</button>
</div>
</div>
</form>
</div>
</div>
</div>
</body>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/js/
bootstrap.bundle.min.js"
integrity="sha384-
HwwvtgBNo3bZJJLYd8oVXjrBZt8cqvSpeBNS5n7C8IVInixGAoxmnlMuBnhbgr
km"
crossorigin="anonymous">
</script>
</html>

```

### Password.php

```

<div class="page-header text-danger">
<h1>Ubah Password</h1>
</div>
<div class="row">

```

```

    <div class="col-sm-5">
        <?php if ($_POST) include 'aksi.php' ?>
        <form method="post" action="?m=password&act=password_u
bah">
            <div class="form-group">
                <label>Password Lama <span class="text-
danger">*</span></label>
                <input class="form-
control" type="password" name="pass1" />
            </div>
            <div class="form-group">
                <label>Password Baru <span class="text-
danger">*</span></label>
                <input class="form-
control" type="password" name="pass2" />
            </div>
            <div class="form-group">
                <label>Konfirmasi Password Baru <span class="t
ext-danger">*</span></label>
                <input class="form-
control" type="password" name="pass3" />
            </div>
            <div class="form-group">
                <button class="btn btn-
primary"><span class="fa fa-save"></span> Simpan</button>
            </div>
        </form>
    </div>
</div>

```

### Index.php

```

<?php
include 'functions.php';
if (!_session('login'))
    header('location:login.php');
?>
<!DOCTYPE html>
<html lang="en">

<head>

    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">

```

```
<meta name="viewport" content="width=device-
width, initial-scale=1, shrink-to-fit=no">

<link rel="icon" type="image/png" href="assets/img/logo.pn
g">

<title>SPK PILMAPRES FAHP</title>

<!-- Custom fonts for this template-->
<link href="assets/vendor/fontawesome-
free/css/all.min.css" rel="stylesheet" type="text/css">
<link href="https://fonts.googleapis.com/css?family=Nunito
:200,200i,300,300i,400,400i,600,600i,700,700i,800,800i,900,900
i" rel="stylesheet">

<!-- Custom styles for this template-->
<link href="assets/css/sb-admin-
2.min.css" rel="stylesheet">
<link href="assets/vendor/select2/css/select2.min.css" rel
="stylesheet">
<link href="assets/vendor/select2-bootstrap4-
theme/select2-bootstrap4.min.css" rel="stylesheet">
<style>
    .sidebar .sidebar-brand {
        font-size: 0.8rem;
    }

    @media(min-width:768px) {
        #content-wrapper {
            position: inherit;
            margin: 0 0 0 224px;
            /* padding: 52px 0 0 30px; */
            /* for fixed menu*/
            /*padding: 0 30px;*/
            border-left: 1px solid #e7e7e7;
        }
    }
</style>
<style>
    .table-responsive {
        max-height: 430px;
        overflow-y: auto;
    }
</style>
```

```

</head>

<body id="page-top">

    <!-- Page Wrapper -->
    <div id="wrapper">

        <!-- Sidebar -->
        <ul class="navbar-nav bg-gradient-
danger sidebar fixed-top sidebar-
dark accordion" id="accordionSidebar">

            <!-- Sidebar - Brand -->
            <a class="sidebar-brand d-flex align-items-
center justify-content-center" href="#">
                <div class="sidebar-brand-icon">
                    
                </div>
                <div class="sidebar-brand-text mx-
3">SPK PILMAPRES FAHP</div>
            </a>

            <!-- Divider -->
            <hr class="sidebar-divider my-0">

            <!-- Nav Item - Dashboard -->

            <?php if (_session('login')) : ?>
            <li class="nav-item ">
                <a class="nav-link" href="?m=home">
                    <i class="fas fa-fw fa-tachometer-
alt"></i>
                    <span>Dashboard</span></a>
                </li>
                <li class="nav-item">
                    <a class="nav-link " href="?m=kriteria">
                        <i class="fas fa-fw fa-clipboard-
list"></i>
                        <span>Kriteria</span></a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" href="?m=subkriteria">

```



```

                <i class="fas fa-fw fa-clipboard-
list"></i>
                <span>Sukriteria</span></a>
            </li>
            <li class="nav-item">
                <a class="nav-link" href="?m=alternatif">
                    <i class="fas fa-fw fa-address-
book"></i>
                    <span>Alternatif</span></a>
                </li>
                <li class="nav-item">
                    <a class="nav-
link" href="?m=rel_alternatif">
                        <i class="fas fa-fw fa-award"></i>
                        <span>Penilaian</span></a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" href="?m=fahp">
                            <i class="fas fa-fw fa-
calculator"></i>
                            <span>F-AHP</span></a>
                        </li>
                        <li class="nav-item">
                            <a class="nav-link" href="?m=laporan">
                                <i class="fas fa-fw fa-calendar"></i>
                                <span>Laporan</span></a>
                            </li>
                    <?php else : ?>
                        <!-- <li class="nav-item">
                            <a class="nav-link" href="?m=home">
                                <i class="fas fa-fw fa-tachometer-
alt"></i>
                                <span>Home</span></a>
                            </li> -->
                            <li class="nav-item">
                                <a class="nav-link" href="?m=login">
                                    <i class="fas fa-fw fa-sign-in-
alt"></i>
                                    <span>Login</span></a>
                                </li>
                    <?php endif ?>

                    <!-- Divider -->
                    <hr class="sidebar-divider d-none d-md-block">

```

```

        <!-- Sidebar Toggler (Sidebar) -->
        <div class="text-center d-none d-md-inline">
            <button class="rounded-circle border-
0" id="sidebarToggle"></button>
        </div>

</ul>
<!-- End of Sidebar -->

<!-- Content Wrapper -->
<div id="content-wrapper" class="d-flex flex-column">

    <!-- Main Content -->
    <div id="content" style="min-height: 600px;">

        <!-- Topbar -->
        <nav class="navbar navbar-expand navbar-
light bg-white topbar mb-4 static-top shadow">

            <!-- Sidebar Toggle (Topbar) -->
            <button id="sidebarToggleTop" class="btn b
tn-link d-md-none rounded-circle mr-3">
                <i class="fa fa-bars"></i>
            </button>

            <!-- Topbar Navbar -->
            <ul class="navbar-nav ml-auto">

                <!--
- Nav Item - Search Dropdown (Visible Only XS) -->
                <li class="nav-item dropdown no-
arrow d-sm-none">
                    <a class="nav-link dropdown-
toggle" href="#" id="searchDropdown" role="button" data-
toggle="dropdown" aria-haspopup="true" aria-expanded="false">
                        <i class="fas fa-search fa-
fw"></i>
                    </a>
                    <!-- Dropdown - Messages -->
                    <div class="dropdown-
menu dropdown-menu-right p-3 shadow animated--grow-in" aria-
labelledby="searchDropdown">

```



```

        </a>
        <a class="dropdown-
item" href="aksi.php?act=logout">
            <i class="fas fa-sign-
out-alt fa-sm fa-fw mr-2 text-gray-400"></i>
            Logout
        </a>
    </div>
</li>
<?php endif ?>

</ul>

</nav>
<!-- End of Topbar -->

<!-- Begin Page Content -->
<div class="container-fluid">
    <?php
        if (!_session('login') && !in_array($mod,
array('', 'home', 'login', 'konsultasi', 'kriteria', 'subkrite
ria', 'alternatif'))))
            $mod = 'login';

        if (file_exists($mod . '.php'))
            include $mod . '.php';
        else
            include 'home.php';
    ?>
</div>
<!-- /.container-fluid -->

</div>
<!-- End of Main Content -->

<!-- Footer -->
<footer class="sticky-footer bg-white">
    <div class="container my-auto">
        <div class="copyright text-center my-
auto">
            <span>SPK PILMAPRES POLSRI BY MUTYAS &
copy; <? = date('Y') ?></span>
        </div>
    </div>
</div>

```

```

        </footer>
        <!-- End of Footer -->

    </div>
    <!-- End of Content Wrapper -->

</div>
<!-- End of Page Wrapper -->

<!-- Scroll to Top Button-->
<a class="scroll-to-top rounded" href="#page-top">
    <i class="fas fa-angle-up"></i>
</a>

<!-- Bootstrap core JavaScript-->
<script src="assets/vendor/jquery/jquery.min.js"></script>
<script src="assets/vendor/bootstrap/js/bootstrap.bundle.m
in.js"></script>

<!-- Core plugin JavaScript-->
<script src="assets/vendor/jquery-
easing/jquery.easing.min.js"></script>

<!-- Custom scripts for all pages-->
<script src="assets/js/sb-admin-2.min.js"></script>
<script src="assets/vendor/select2/js/select2.min.js"></sc
ript>

<script>
    $(function() {
        $('#sidebarToggle').click(function(e) {
            $('#content-wrapper').css('margin-
left', $('#accordionSidebar').width());
        });
    })
</script>
<script>
    $(function() {
        $('#select').select2({
            'theme': 'bootstrap4',
        });
    })
</script>
</body>

```

```
</html>
```

## Home.php

```
<script src="https://code.highcharts.com/highcharts.js"></script>
<script src="https://code.highcharts.com/modules/series-label.js"></script>
<script src="https://code.highcharts.com/modules/exporting.js"></script>
<script src="https://code.highcharts.com/modules/export-data.js"></script>
<script src="https://code.highcharts.com/modules/accessibility.js"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/js/bootstrap.bundle.min.js" integrity="sha384-HwwvtgBNO3bZJJLYd8oVXjrBZt8cqvVSpeBNS5n7C8IVInixGAoxmnlMuBnhbgrkm" crossorigin="anonymous"></script>
```

```
<div class="text-danger"><h1>Dashboard</h1></div>
<div class="row">
```

```
    <!-- Earnings (Monthly) Card Example -->
    <div class="col-xl-4 col-md-6 mb-4">
        <div class="card border-left-danger shadow h-100 py-4">
            <div class="card-body">
                <div class="row no-gutters align-items-center">
                    <div class="col mr-2">
                        <div class="text-xx font-weight-bold text-danger text-uppercase mb-1">
                            Kriteria</div>
                        <div class="h2 mb-2 font-weight-bold text-gray-800"><?= $db->get_var("SELECT COUNT(*) FROM tb_kriteria") ?></div>
                        <div><a class="btn btn-sm btn-danger" href="?m=kriteria">Selengkapnya</a></div>
                    </div>
                    <div class="col-auto">
                        <i class="fas fa-clipboard-list fa-2x text-gray-300"></i>
```

```

        </div>
    </div>
</div>
</div>
</div>
</div>

<!-- Earnings (Monthly) Card Example -->
<div class="col-xl-4 col-md-6 mb-4">
    <div class="card border-left-danger shadow h-100 py-
4">
        <div class="card-body">
            <div class="row no-gutters align-items-
center">
                <div class="col mr-2">
                    <div class="text-xx font-weight-
bold text-danger text-uppercase mb-1">
                        Alternatif</div>
                    <div class="h2 mb-2 font-weight-
bold text-gray-800"><?= $db-
>get_var("SELECT COUNT(*) FROM tb_alternatif") ?></div>

                    <div><a class="btn btn-sm btn-
danger" href="?m=alternatif">Selengkapnya</a></div>

                </div>
                <div class="col-auto">
                    <i class="fas fa-address-book fa-
2x text-gray-300"></i>
                </div>
            </div>
        </div>
    </div>
</div>

<!-- Earnings (Monthly) Card Example -->
<div class="col-xl-4 col-md-6 mb-4">
    <div class="card border-left-danger shadow h-100 py-
4">
        <div class="card-body">
            <div class="row no-gutters align-items-
center">
                <div class="col mr-2">
                    <div class="text-xx font-weight-
bold text-danger text-uppercase mb-1">Subkriteria

```

```

        </div>
        <div class="h2 mb-2 font-weight-
bold text-gray-800"><?= $db-
>get_var("SELECT COUNT(*) FROM tb_subkriteria") ?></div>

        <div><a class="btn btn-sm btn-
danger" href="?m=subkriteria">Selengkapnya</a></div>

    </div>
    <div class="col-auto">
        <i class="fas fa-clipboard-list fa-
2x text-gray-300"></i>
    </div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
<!-- TABEL HASIL FAHP & FSAW -->

<!-- DIAGRAM FAHP -->
<div class="row">
    <div class="col-md-12">
        <div class="card">
            <div class="card-header">
                <strong>Hasil Fuzzy AHP</strong>
            </div>
            <div class="card-body">
                <div id="container1"></div>
            </div>
        </div>
        <?php
        $categories = array();
        $data_fahp = array();
        $data_fsaw = array();
        foreach ($ALTERNATIF as $row) {
            $categories[$row->kode_alternatif] = $row-
>nama_alternatif;
            $data_fahp[$row->kode_alternatif] = $row-
>fahp_total * 1;
        }
        $categories = json_encode(array_values($categories));
        $data_fahp = json_encode(array_values($data_fahp));
        ?>

```



```

<script>
  Highcharts.chart('container1', {
    chart: {
      type: 'column'
    },
    colors: ['#ff3b3b'],
    series: [{
      name: 'Seri 1',
      data: [5, 10, 7]
    }],
    title: {
      text: ''
    },
    subtitle: {
      text: ''
    },
    xAxis: {
      categories: <?=$categories ?>,
      crosshair: true
    },
    yAxis: {
      min: 0,
      title: {
        text: 'Total'
      }
    },
    tooltip: {
      headerFormat: '<span style="font-size:10px">{point.key}</span><table>',
      pointFormat: '<tr><td style="color:{series.color};padding:0">{series.name}: </td>' +
        '<td style="padding:0"><b>{point.y:.3f}</b></td></tr>',
      footerFormat: '</table>',
      shared: true,
      useHTML: true
    },
    plotOptions: {
      column: {
        pointPadding: 0.2,
        borderWidth: 0
      }
    },
    series: [{

```

```

        name: 'Total',
        data: <?= $data_fahp ?>
    }
}
});
</script>
</div>

</div>

```

### Home\_chart.php

```

<div class="card">
    <div class="card-header">
        <strong>Hasil Perhitungan</strong>
    </div>
    <div class="card-body">
        <div class="card mb-3">
            <div class="table-responsive">
                <table class="table table-bordered table-
hover table-striped m-0">
                    <thead>
                        <tr>
                            <th>No</th>
                            <th>Kode</th>
                            <th>Nama</th>
                            <th>Rank FAHP</th>
                            <th>Total FAHP</th>
                            <th>Rank FSAW</th>
                            <th>Total FSAW</th>
                        </tr>
                    </thead>
                    <?php
                    $q = esc_field(_get('q'));
                    $rows = $db-
>get_results("SELECT * FROM tb_alternatif WHERE kode_alternati
f LIKE '%$q%' OR nama_alternatif LIKE '%$q%' ORDER BY kode_alt
ernatif");
                    $no = 0;
                    foreach ($rows as $row) : ?>
                        <tr>
                            <td><?= ++$no ?></td>
                            <td><?= $row-
>kode_alternatif ?></td>

```

```

                <td><?= $row-
>nama_alternatif ?></td>
                <td><?= $row->fahp_rank ?></td>
                <td><?= round($row-
>fahp_total, 4) ?></td>
                <td><?= $row->fsaw_rank ?></td>
                <td><?= round($row-
>fsaw_total, 4) ?></td>
            </tr>
        <?php endforeach ?>
    </table>
</div>
</div>
</div>
</div>
</div>

```

### Kriteria.php

```

<div class="page-header text-danger">
    <h1>Kriteria</h1>
</div>
<?= show_msg() ?>
<div class="card mb-3">
    <div class="card-header">
        <form class="form-inline">
            <input type="hidden" name="m" value="kriteria" />
            <div class="mr-1">
                <input class="form-
control" type="text" placeholder="Pencarian. . ." name="q" val
ue="<?= _get('q') ?>" />
            </div>
            <div class="mr-1">
                <button class="btn btn-
success"><span class="fa fa-sync"></span> Refresh</a>
            </div>
            <div class="mr-1" <?= is_hidden() ?>>
                <a class="btn btn-
primary" href="?m=kriteria_tambah"><span class="fa fa-
plus"></span> Tambah</a>
            </div>
        </form>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-hover table-
striped m-0">

```

```

        <thead>
            <tr class="nw">
                <th>Kode</th>
                <th>Nama</th>
                <th>Bobot</th>
                <th <?= is_hidden() ?>>Aksi</th>
            </tr>
        </thead>
        <?php
            $q = _get('q');
            $rows = $db-
>get_results("SELECT * FROM tb_kriteria
                WHERE kode_kriteria LIKE '%$q%' OR nama_kriteria LIKE
                '%$q%'
                ORDER BY kode_kriteria");

            foreach ($rows as $row) : ?>
                <tr>

                    <td><?= $row->kode_kriteria ?></td>
                    <td><?= $row->nama_kriteria ?></td>
                    <td><?= $row->bobot ?></td>
                    <td class="nw" <?= is_hidden() ?>>
                        <a class="btn btn-sm btn-
warning" href="?m=kriteria_ubah&ID=<?= $row-
>kode_kriteria ?>"><span class="fa fa-edit"></span></a>
                        <a class="btn btn-sm btn-
danger" href="aksi.php?act=kriteria_hapus&ID=<?= $row-
>kode_kriteria ?>" onclick="return confirm('Hapus data?')"><sp
an class="fa fa-trash"></span></a>
                    </td>
                </tr>
            <?php endforeach;
            ?>
        </table>
    </div>
</div>

```

### Kriteria\_tambah.php

```

<div class="page-header text-danger">
    <h1>Tambah Kriteria</h1>
</div>
<div class="row">
    <div class="col-sm-6">

```

```

        <?php if ($_POST) include 'aksi.php' ?>
        <form method="post">
            <div class="form-group">
                <label>Kode <span class="text-
danger">*</span></label>
                <input class="form-
control" type="text" readonly="readonly" name="kode" value="<?
= set_value('kode', kode_oto('kode_kriteria', 'tb_kriteria', '
C', 2)) ?>" />
            </div>
            <div class="form-group">
                <label>Nama Kriteria <span class="text-
danger">*</span></label>
                <input class="form-
control" type="text" name="nama" value="<?= set_value('nama')
?>" />
            </div>
            <div class="form-group">
                <label>Bobot <span class="text-
danger"></span></label>
                <input class="form-
control" type="text" name="bobot" value="<?= set_value('bobot'
) ?>" />
            </div>
            <div class="form-group">
                <button class="btn btn-
primary"><span class="fa fa-save"></span> Simpan</button>
                <a class="btn btn-
danger" href="?m=kriteria"><span class="fa fa-arrow-
left"></span> Kembali</a>
            </div>
        </form>
    </div>
</div>

```

### **Kriteria\_ubah.php**

```

<?php
$row = $db-
>get_row("SELECT * FROM tb_kriteria WHERE kode_kriteria='$_GET
[ID]'");
?>
<div class="page-header text-danger">
    <h1>Ubah Kriteria</h1>
</div>

```

```

<div class="row">
  <div class="col-sm-6">
    <?php if ($_POST) include 'aksi.php' ?>
    <form method="post">
      <div class="form-group">
        <label>Kode <span class="text-
danger">*</span></label>
        <input class="form-
control" type="text" name="kode" value="<?= $row-
>kode_kriteria ?>" readonly="" />
      </div>
      <div class="form-group">
        <label>Nama Kriteria <span class="text-
danger">*</span></label>
        <input class="form-
control" type="text" name="nama" value="<?= set_value('nama',
$row->nama_kriteria) ?>" />
      </div>
      <div class="form-group">
        <label>Bobot <span class="text-
danger"></span></label>
        <input class="form-
control" type="text" name="bobot" value="<?= set_value('bobot'
, $row->bobot) ?>" />
      </div>
      <div class="form-group">
        <button class="btn btn-
primary"><span class="fa fa-save"></span> Simpan</button>
        <a class="btn btn-
danger" href="?m=kriteria"><span class="fa fa-arrow-
left"></span> Kembali</a>
      </div>
    </form>
  </div>
</div>

```

### Subkriteria.php

```

<div class="page-header text-danger">
  <h1>Subkriteria</h1>
</div>
<?= show_msg() ?>
<div class="card mb-3">
  <div class="card-header">
    <form class="form-inline">

```

```

        <input type="hidden" name="m" value="subkriteria"
/>
        <div class="mr-1">
            <input class="form-
control" type="text" name="q" value="<?=$_get('q') ?>" placeho
lder="Pencarian...">
        </div>
        <div class="mr-1">
            <button class="btn btn-
success"><span class="fa fa-sync"></span> Refresh</button>
        </div>
        <div class="mr-1" <?=$_is_hidden() ?>>
            <a class="btn btn-
primary" href="?m=subkriteria_tambah"><span class="fa fa-
plus"></span> Tambah</a>
        </div>

    </form>
</div>
<div class="table-responsive">
    <table class="table table-bordered table-hover table-
striped m-0">
        <thead>
            <tr>
                <th>Kode</th>
                <th>Kriteria</th>
                <th>Nama</th>
                <th>Atribut</th>
                <th>Nilai</th>
                <th <?=$_is_hidden() ?>>Aksi</th>
            </tr>
        </thead>
        <?php
        $q = esc_field($_get('q'));
        $rows = $db-
>get_results("SELECT * FROM tb_subkriteria c INNER JOIN tb_kri
teria k ON k.kode_kriteria=c.kode_kriteria WHERE k.nama_kriter
ia LIKE '%$q%' ORDER BY k.kode_kriteria, kode_subkriteria");
        foreach ($rows as $row) : ?>
            <tr>
                <td><?=$_$row->kode_subkriteria ?></td>
                <td><?=$_$row->nama_kriteria ?></td>
                <td><?=$_$row->nama_subkriteria ?></td>
                <td><?=$_$row->atribut ?></td>

```

```

                <td><?= $row->nilai ?></td>
                <td <?= is_hidden() ?>>
                    <a class="btn btn-sm btn-
warning" href="?m=subkriteria_ubah&ID=<?= $row-
>kode_subkriteria ?>"><span class="fa fa-edit"></span></a>
                    <a class="btn btn-sm btn-
danger" href="aksi.php?act=subkriteria_hapus&ID=<?= $row-
>kode_subkriteria ?>" onclick="return confirm('Hapus data?')">
<span class="fa fa-trash"></span></a>
                </td>
            </tr>
        <?php endforeach ?>
    </table>
</div>
</div>

```

### Subkriteria\_tambah.php

```

<div class="page-header text-danger">
    <h1>Tambah Subkriteria</h1>
</div>
<div class="row">
    <div class="col-sm-6">
        <?php if ($_POST) include 'aksi.php' ?>
        <form method="post">
            <div class="form-group">
                <label>Kode <span class="text-
danger">*</span></label>
                <input class="form-
control" type="text" name="kode_subkriteria" value="<?= set_va
lue('kode_subkriteria', kode_oto('kode_subkriteria', 'tb_subkr
iteria', 'S', 2)) ?>" />
            </div>
            <div class="form-group">
                <label>Kriteria <span class="text-
danger">*</span></label>
                <select class="form-
control" name="kode_kriteria"><?= get_kriteria_option(set_valu
e('kode_kriteria')) ?></select>
            </div>
            <div class="form-group">
                <label>Keterangan <span class="text-
danger">*</span></label>

```



```

        <input class="form-
control" type="text" name="nama_subkriteria" value="<?= set_va
lue('nama_subkriteria') ?>" />
    </div>
    <div class="form-group">
        <label>Atribut <span class="text-
danger">*</span></label>
        <select class="form-control" name="atribut">
            <option value="">&nbsp;</option>
            <?= get_atribut_option(set_value('atribut'
)) ?>
        </select>
    </div>
    <div class="form-group">
        <label>Nilai <span class="text-
danger">*</span></label>
        <input class="form-
control" type="text" name="nilai" value="<?= set_value('nilai'
) ?>" />
    </div>
    <div class="form-group">
        <button class="btn btn-
primary"><span class="fa fa-save"></span> Simpan</button>
        <a class="btn btn-
danger" href="?m=subkriteria"><span class="fa fa-arrow-
left"></span> Kembali</a>
    </div>
</form>
</div>
</div>

```

### Subkriteria\_ubah.php

```

<?php
$row = $db-
>get_row("SELECT * FROM tb_subkriteria WHERE kode_subkriteria=
'$_GET[ID]'");
?>
<div class="page-header text-danger">
    <h1>Ubah Subkriteria</h1>
</div>
<div class="row">
    <div class="col-sm-6">
        <?php if ($_POST) include 'aksi.php' ?>
        <form method="post">

```

```

        <div class="form-group">
            <label>Kode <span class="text-
danger">*</span></label>
            <input class="form-
control" type="text" name="kode_subkriteria" value="<?=$row-
>kode_subkriteria ?>" readonly />
        </div>
        <div class="form-group">
            <label>Kriteria <span class="text-
danger">*</span></label>
            <select class="form-
control" name="kode_kriteria"><?=$get_kriteria_option(set_valu
e('kode_kriteria', $row->kode_kriteria)) ?></select>
        </div>
        <div class="form-group">
            <label>Keterangan <span class="text-
danger">*</span></label>
            <input class="form-
control" type="text" name="nama_subkriteria" value="<?=$set_va
lue('nama_subkriteria', $row->nama_subkriteria) ?>" />
        </div>
        <div class="form-group">
            <label>Atribut <span class="text-
danger">*</span></label>
            <select class="form-control" name="atribut">
                <option value="">&nbsp;</option>
                <?=$get_atribut_option(set_value('atribut'
, $row->atribut)) ?>
            </select>
        </div>
        <div class="form-group">
            <label>Nilai <span class="text-
danger">*</span></label>
            <input class="form-
control" type="text" name="nilai" value="<?=$set_value('nilai'
, $row->nilai) ?>" />
        </div>
        <div class="form-group">
            <button class="btn btn-
primary"><span class="fa fa-save"></span> Simpan</button>
            <a class="btn btn-
danger" href="?m=subkriteria"><span class="fa fa-arrow-
left"></span> Kembali</a>
        </div>

```

```

        </form>
    </div>
</div>

```

### Alternatif.php

```

<div class="page-header text-danger">
    <h1>Alternatif</h1>
</div>
<?= show_msg() ?>
<div class="card mb-3">
    <div class="card-header">
        <form class="form-inline">
            <input type="hidden" name="m" value="alternatif" /
        >
            <div class="mr-1">
                <input class="form-
control" type="text" placeholder="Pencarian. . ." name="q" val
ue="<?= _get('q') ?>" />
            </div>
            <div class="mr-1">
                <button class="btn btn-
success"><span class="fa fa-sync"></span> Refresh</button>
            </div>
            <div class="mr-1" <?= is_hidden() ?>>
                <a class="btn btn-
primary" href="?m=alternatif_tambah"><span class="fa fa-
plus"></span> Tambah</a>
            </div>
        </form>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-hover table-
striped m-0">
            <thead>
                <tr>
                    <th>No</th>
                    <th>Kode</th>
                    <th>NIM</th>
                    <th>Nama</th>
                    <th>Keterangan</th>
                    <th <?= is_hidden() ?>>Aksi</th>
                </tr>
            </thead>

```

```

        <?php
            $q = esc_field(_get('q'));
            $rows = $db-
>get_results("SELECT * FROM tb_alternatif WHERE kode_alternati
f LIKE '%$q%' OR nama_alternatif LIKE '%$q%' ORDER BY kode_alt
ernatif");
            $no = 0;
            foreach ($rows as $row) : ?>
                <tr>
                    <td><?= ++$no ?></td>
                    <td><?= $row->kode_alternatif ?></td>
                    <td><?= $row->nim ?></td>
                    <td><?= $row->nama_alternatif ?></td>
                    <td><?= $row->keterangan ?></td>
                    <td <?= is_hidden() ?>>
                        <a class="btn btn-sm btn-
warning" href="?m=alternatif_ubah&ID=<?= $row-
>kode_alternatif ?>"><span class="fa fa-edit"></span></a>
                        <a class="btn btn-sm btn-
danger" href="aksi.php?act=alternatif_hapus&ID=<?= $row-
>kode_alternatif ?>" onclick="return confirm('Hapus data?')"><
span class="fa fa-trash"></span></a>
                    </td>
                </tr>
            <?php endforeach ?>
        </table>
    </div>
</div>

```

### Alternatif\_tambah.php

```

<div class="page-header text-danger">
    <h1>Tambah Alternatif</h1>
</div>
<div class="row">
    <div class="col-sm-6">
        <?php if ($_POST) include 'aksi.php' ?>
        <form method="post" enctype="multipart/form-data">
            <div class="form-group">
                <label>Kode <span class="text-
danger">*</span></label>
                <input class="form-
control" type="text" name="kode_alternatif" value="<?= set_val
ue('kode_alternatif', kode_oto('kode_alternatif', 'tb_alternat
if', 'A', 3)) ?>" />

```

```

        </div>
        <div class="form-group">
            <label>NIM <span class="text-
danger">*</span></label>
            <input class="form-
control" type="text" name="nim" value="<? = set_value('nim') ?>
" />
        </div>
        <div class="form-group">
            <label>Nama Alternatif <span class="text-
danger">*</span></label>
            <input class="form-
control" type="text" name="nama_alternatif" value="<? = set_val
ue('nama_alternatif') ?>" />
        </div>
        <div class="form-group">
            <label>Keterangan </label>
            <textarea class="form-
control editor" name="keterangan"><? = set_value('keterangan')
?></textarea>
        </div>
        <div class="form-group">
            <button class="btn btn-
primary"><span class="fa fa-save"></span> Simpan</button>
            <a class="btn btn-
danger" href="?m=alternatif"><span class="fa fa-arrow-
left"></span> Kembali</a>
        </div>
    </form>
</div>
</div>

```

### Alternatif\_ubah.php

```

<?php
$row = $db-
>get_row("SELECT * FROM tb_alternatif WHERE kode_alternatif='$_$
_GET[ID]'");
?>
<div class="page-header text-danger">
    <h1>Ubah Alternatif</h1>
</div>
<div class="row">
    <div class="col-sm-6">
        <?php if ($_POST) include 'aksi.php' ?>
    </div>

```

```

        <form method="post" enctype="multipart/form-data">
            <div class="form-group">
                <label>Kode <span class="text-
danger">*</span></label>
                <input class="form-
control" type="text" name="kode_alternatif" readonly="readonly
" value="<?= $row->kode_alternatif ?>" />
            </div>
            <div class="form-group">
                <label>NIM <span class="text-
danger">*</span></label>
                <input class="form-
control" type="text" name="nim" value="<?= set_value('nim', $r
ow->nim) ?>" />
            </div>
            <div class="form-group">
                <label>Nama Alternatif <span class="text-
danger">*</span></label>
                <input class="form-
control" type="text" name="nama_alternatif" value="<?= set_val
ue('nama_alternatif', $row->nama_alternatif) ?>" />
            </div>
            <div class="form-group">
                <label>Keterangan </label>
                <textarea class="form-
control editor" name="keterangan"><?= set_value('keterangan',
$row->keterangan) ?></textarea>
            </div>
            <div class="form-group">
                <button class="btn btn-
primary"><span class="fa fa-save"></span> Simpan</button>
                <a class="btn btn-
danger" href="?m=alternatif"><span class="fa fa-arrow-
left"></span> Kembali</a>
            </div>
        </form>
    </div>
</div>

```

### Rel\_alternatif.php

```

<div class="page-header text-danger">
    <h1>Nilai Bobot Alternatif</h1>
</div>
<div class="card mb-3">

```

```

<div class="card-header text-danger">
    <form class="form-inline">
        <input type="hidden" name="m" value="rel_alternati
f" />
        <div class="mr-1">
            <input class="form-
control" type="text" name="q" value="<?= _get('q') ?>" placeho
lder="Pencarian..." />
        </div>
        <div class="mr-1">
            <button class="btn btn-
success"><span class="fa fa-sync"></span> Refresh</a>
        </div>
    </form>
</div>
<div class="table-responsive">
    <table class="table table-bordered table-hover table-
striped m-0">
        <thead>
            <tr>
                <th>Kode</th>
                <th>Nama Alternatif</th>
                <?php foreach ($SUBKRITERIA as $key => $va
1) : ?>
                    <th><?= $val->nama_subkriteria ?></th>
                <?php endforeach ?>
                <th>Aksi</th>
            </tr>
        </thead>
        <tbody>
            <?php

                $q = esc_field(_get('q'));
                $rows = $db-
>get_results("SELECT * FROM tb_alternatif
                WHERE
                    kode_alternatif LIKE '%$q%'
                    OR nama_alternatif LIKE '%$q%'
                    OR keterangan LIKE '%$q%'
                ORDER BY kode_alternatif");
                $rel_alternatif = get_rel_alternatif();

                foreach ($rows as $row) : ?>
                    <tr class="nw">

```

```

        <td><?= $row->kode_alternatif ?></td>
        <td><?= $row->nama_alternatif; ?></td>
        <?php foreach ($rel_alternatif[$row-
>kode_alternatif] as $k => $v) : ?>
            <td><?= $v ?></td>
        <?php endforeach ?>
        <td>
            <a class="btn btn-sm btn-
warning" href="?m=rel_alternatif_ubah&ID=<?= $row-
>kode_alternatif ?>"><span class="fa fa-edit"></span> Ubah</a>
        </td>
    </tr>
    <?php endforeach; ?>
</tbody>
</table>
</div>
</div>

```

### Rel\_alternatif\_ubah.php

```

<?php
$row = $db-
>get_row("SELECT * FROM tb_alternatif WHERE kode_alternatif='$
_GET[ID]'");
?>
<div class="page-header text-danger">
    <h1>Ubah nilai bobot &raquo; <small><?= $row-
>nama_alternatif ?></small></h1>
</div>
<div class="row">
    <div class="col-sm-4">
        <form method="post" action="aksi.php?act=rel_alternati
f_ubah&ID=<?= $row->kode_alternatif ?>">
            <?php
                $rows = $db-
>get_results("SELECT * FROM tb_rel_alternatif WHERE kode_alte
rnatif='$_GET[ID]' ORDER BY kode_subkriteria");
                foreach ($rows as $row) : ?>
                    <div class="form-group">
                        <label><?= $SUBKRITERIA[$row-
>kode_subkriteria]->nama_kriteria ?> - <?= $SUBKRITERIA[$row-
>kode_subkriteria]->nama_subkriteria ?></label>
                        <input class="form-
control" name="nilai[<?= $row->ID ?>]" value="<?= $row-
>nilai ?>" />

```



```

        </div>
        <?php endforeach ?>
        <div class="form-group">
            <button class="btn btn-
primary"><span class="fa fa-save"></span> Simpan</button>
            <a class="btn btn-
danger" href="?m=rel_alternatif"><span class="fa fa-arrow-
left"></span> Kembali</a>
        </div>
    </form>
</div>
</div>
</div>

```

### **Fahp.php**

```

<div class="page-header text-danger">
    <h1>Perhitungan Fuzzy AHP</h1>
</div>
<?php
$bobot_kriteria = array();
foreach ($KRITERIA as $key => $val) {
    $bobot_kriteria[$key] = $val->bobot;
}
$bobot_subkriteria = array();
foreach ($SUBKRITERIA as $key => $val) {
    $bobot_subkriteria[$val->kode_kriteria][$val-
>kode_subkriteria] = $val->nilai;
    $atribut[$key] = $val->atribut;
}
$rel_alternatif = get_rel_alternatif();
$fahp = new FAHPAuto($bobot_kriteria, $bobot_subkriteria, $rel
_alternatif);
$ahp = new AHP($fahp->konversi_kriteria);

?>
<div class="card mb-3">
    <div class="card-header">
        <a href="#fahp_kriteria" data-
toggle="collapse" class="text-
danger">FAHP KRITERIA (Klik untuk lihat detail)</a>
    </div>
    <div class="card-body collapse show1" id="fahp_kriteria">
        <?php include 'fahp_kriteria.php'; ?>
    </div>

```

```

</div>
<?php foreach ($KRITERIA as $key_kriteria => $val_kriteria) :
?>
    <div class="card mb-3">
        <div class="card-header">
            <a href="#fahp_subkriteria_<?=$key_kriteria ?>" data-
            toggle="collapse" class="text-
            danger">FAHP <?=$val_kriteria-
            >nama_kriteria ?> (Klik untuk lihat detail)</a>
        </div>
        <div class="card-
        body collapse show1" id="fahp_subkriteria_<?=$key_kriteria ?>
        ">
            <?php include 'fahp_subkriteria.php'; ?>
        </div>
    </div>
<?php endforeach ?>

<div class="card mb-3">
    <div class="card-header text-danger">
        <strong>Nilai Alternatif</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
        striped table-hover m-0">
            <thead>
                <tr>
                    <th>Kode</th>
                    <?php foreach ($SUBKRITERIA as $key => $va
                    l) : ?>
                        <th><?=$key ?> (<?=$round($fahp-
                        >w_lokal_subkriteria[$key], 3) ?>)</th>
                    <?php endforeach ?>
                </tr>
            </thead>
            <?php foreach ($fahp-
            >rel_alternatif as $key => $val) : ?>
                <tr>
                    <td><?=$key ?></td>
                    <?php foreach ($val as $k => $v) : ?>
                        <td><?=$round($v, 3) ?></td>
                    <?php endforeach ?>
                </tr>
            <?php endforeach ?>
        </table>
    </div>

```

```

        </table>
    </div>
</div>

<div class="card mb-3">
    <div class="card-header text-danger">
        <strong>Terbobot Subkriteria</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Kode</th>
                    <?php foreach ($SUBKRITERIA as $key => $va
1) : ?>
                        <th><?= $key ?> </th>
                    <?php endforeach ?>
                </tr>
            </thead>
            <?php foreach ($fahp-
>terbobot_sub as $key => $val) : ?>
                <tr>
                    <td><?= $key ?></td>
                    <?php foreach ($val as $k => $v) : ?>
                        <td><?= round($v, 3) ?></td>
                    <?php endforeach ?>
                </tr>
            <?php endforeach ?>
        </table>
    </div>
</div>

<div class="card mb-3">
    <div class="card-header text-danger">
        <strong>Rekap Per Kriteria</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Kode</th>

```

```

                <?php foreach ($KRITERIA as $key => $val)
: ?>
                    <th><?= $key ?> (<?= round($fahp-
>fahp->w_lokal[$key], 4) ?>)</th>
                <?php endforeach ?>
            </tr>
        </thead>
        <?php foreach ($fahp-
>terbobot_sub_rekap as $key => $val) : ?>
            <tr>
                <td><?= $key ?></td>
                <?php foreach ($val as $k => $v) : ?>
                    <td><?= round($v, 3) ?></td>
                <?php endforeach ?>
            </tr>
        <?php endforeach ?>
    </table>
</div>
</div>

```

```

<div class="card mb-3">
    <div class="card-header text-danger">
        <strong>Terbobot Kriteria</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Kode</th>
                    <?php foreach ($KRITERIA as $key => $val)
: ?>
                        <th><?= $key ?></th>
                    <?php endforeach ?>
                </tr>
            </thead>
            <?php foreach ($fahp-
>terbobot_kriteria as $key => $val) : ?>
                <tr>
                    <td><?= $key ?></td>
                    <?php foreach ($val as $k => $v) : ?>
                        <td><?= round($v, 3) ?></td>
                    <?php endforeach ?>
                </tr>
            </tr>
        </table>
    </div>

```

```

        <?php endforeach ?>
    </table>
</div>
</div>
</div>

<div class="card mb-3">
    <div class="card-header text-danger">
        <strong>Perangkingan Fuzzy AHP</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Rank</th>
                    <th>Kode</th>
                    <th>Nama</th>
                    <th>Total</th>
                </tr>
            </thead>
            <?php
foreach ($fahp->rank as $key => $val) :
    $db-
>query("UPDATE tb_alternatif SET fahp_total='{ $fahp-
>total[$key]}' , fahp_rank='$val' WHERE kode_alternatif='$key'"
);
        ?>
                <tr>
                    <td><?= $val ?></td>
                    <td><?= $key ?></td>
                    <td><?= $ALTERNATIF[$key]-
>nama_alternatif ?></td>
                    <td><?= round($fahp-
>total[$key], 3) ?></td>
                </tr>
            <?php endforeach ?>
        </table>
    </div>
    <div class="card-footer">
        <a class="btn btn-
info" target="_blank" href="cetak.php?m=fahp"><span class="fa
fa-print"></span> Cetak</a>
    </div>
</div>

```

## Fahp\_kriteria.php

```
<div class="card mb-3">
  <div class="card-header text-danger">
    <strong>Data Kriteria</strong>
  </div>
  <div class="table-responsive">
    <table class="table table-bordered table-
striped table-hover m-0">
      <thead>
        <tr>
          <th>Kode</th>
          <th>Nama</th>
          <th>Bobot</th>
          <?php foreach ($KRITERIA as $key => $val)
: ?>
            <th><?= $key ?></th>
          <?php endforeach ?>
        </tr>
      </thead>
      <?php foreach ($fahp-
>matrix_kriteria as $key => $val) : ?>
        <tr>
          <td><?= $key ?></td>
          <td><?= $KRITERIA[$key]-
>nama_kriteria ?></td>
          <td><?= $KRITERIA[$key]->bobot ?></td>
          <?php foreach ($val as $k => $v) : ?>
            <td><?= round($v, 3) ?></td>
          <?php endforeach ?>
        </tr>
      <?php endforeach ?>
    </table>
  </div>
</div>

<div class="card mb-3">
  <div class="card-header text-danger">
    <strong>Konversi AHP</strong>
  </div>
  <div class="table-responsive">
    <table class="table table-bordered table-
striped table-hover m-0">
      <thead>
```

```

        <tr>
            <th>Kode</th>
            <?php foreach ($KRITERIA as $key => $val)
: ?>
                <th><?= $key ?></th>
            <?php endforeach ?>
        </tr>
    </thead>
    <?php foreach ($fahp-
>konversi_kriteria as $key => $val) : ?>
        <tr>
            <td><?= $key ?></td>
            <?php foreach ($val as $k => $v) : ?>
                <td><?= round($v, 3) ?></td>
            <?php endforeach ?>
        </tr>
    <?php endforeach ?>
    <tfoot>
        <tr>
            <td>Total</td>
            <?php foreach ($ahp-
>baris_total as $key => $val) : ?>
                <td><?= round($val, 3) ?></td>
            <?php endforeach ?>
        </tr>
    </tfoot>
</table>
</div>
<div class="card-body text-danger">
    Normalisasi Matriks AHP
</div>
<div class="table-responsive">
    <table class="table table-bordered table-
striped table-hover m-0">
        <thead>
            <tr>
                <th>Kode</th>
                <?php foreach ($KRITERIA as $key => $val)
: ?>
                    <th><?= $key ?></th>
                <?php endforeach ?>
                <th>Eigen Vector</th>
                <th>Consistency Measure</th>
            </tr>

```

```

</thead>
<?php foreach ($ahp->normal as $key => $val) : ?>
    <tr>
        <td><?= $key ?></td>
        <?php foreach ($val as $k => $v) : ?>
            <td><?= round($v, 3) ?></td>
        <?php endforeach ?>
        <td><?= round($ahp-
>prioritas[$key], 3) ?></td>
        <td><?= round($ahp->cm[$key], 3) ?></td>
    </tr>
<?php endforeach ?>
</table>
<div class="card-footer">
    CI = <?= round($ahp->CI, 4) ?><br />
    RI = <?= round($ahp->RI, 4) ?><br />
    CR = <?= round($ahp->CR, 4) ?> (<?= $ahp-
>konsistensi ?>)<br />
</div>
</div>
</div>

<div class="card mb-3">
    <div class="card-header text-danger">
        <strong>Konversi FAHP</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Kode</th>
                    <?php foreach ($KRITERIA as $key => $val)
: ?>
                        <th colspan="3"><?= $key ?></th>
                    <?php endforeach ?>
                    <th colspan="3">Total</th>
                </tr>
                <tr>
                    <th>&nbsp;</th>
                    <?php foreach ($KRITERIA as $key => $val)
: ?>
                        <th>L</th>
                        <th>M</th>

```



```

                <th>U</th>
                <?php endforeach ?>
                <th>L</th>
                <th>M</th>
                <th>U</th>
            </tr>
        </thead>
        <?php foreach ($fahp->fahp-
>mfahp as $key => $val) : ?>
            <tr>
                <td><?=$key ?></td>
                <?php foreach ($val as $k => $v) : ?>
                    <?php foreach ($v as $a => $b) : ?>
                        <td><?=$round($b, 3) ?></td>
                    <?php endforeach ?>
                <?php endforeach ?>
                <?php foreach ($fahp->fahp-
>lmu[$key] as $a => $b) : ?>
                    <td><?=$round($b, 3) ?></td>
                <?php endforeach ?>
            </tr>
        <?php endforeach ?>
        <tr>
            <td colspan="<?=$count($KRITERIA) * 3 + 1 ?>">
Total</td>
            <?php foreach ($fahp->fahp-
>lmu_total as $a => $b) : ?>
                <td><?=$round($b, 3) ?></td>
            <?php endforeach ?>
        </tr>
    </table>
</div>
</div>

<div class="card mb-3">
    <div class="card-header text-danger">
        <strong>Nilai Sintesis</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Kode</th>

```



```

                <th>d = b-c</th>
                <th>e = a/d</th>
                <th>d'</th>
            </tr>
        </thead>
        <?php foreach ($val as $k => $v) : ?>
            <tr>
                <td><?= $k ?></td>
                <?php foreach ($v as $a => $b) : ?>
                    <td><?= round($b, 3) ?></td>
                <?php endforeach ?>
            </tr>
        <?php endforeach ?>
    <tfoot>
        <tr>
            <td colspan="6">Nilai Minimum (W)</td>
            <td><?= round($fahp->fahp->w[$key], 3) ?></td>
        </tr>
    </tfoot>
</table>
</div>
</div>
<?php endforeach ?>
</div>
</div>

<div class="card mb-3">
    <div class="card-header text-danger">
        <strong>Nilai Vektor W</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Kode</th>
                    <th>W</th>
                    <th>W Lokal</th>
                </tr>
            </thead>
            <?php foreach ($fahp->fahp-
>w as $key => $val) : ?>
                <tr>
                    <td><?= $key ?></td>

```

```

                <td><?= round($val, 3) ?></td>
                <td><?= round($fahp->fahp-
>w_lokal[$key], 3) ?></td>
            </tr>
        <?php endforeach ?>
    </table>
</div>
</div>

```

### Fahp\_subkriteria.php

```

<?php
$fahp_sub = $fahp->fahp_sub[$key_kriteria];
$ahp = new AHP($fahp->konversi_subkriteria[$key_kriteria]);
?>
<div class="card mb-3">
    <div class="card-header text-danger">
        <strong>Data Subkriteria</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Kode</th>
                    <th>Nama</th>
                    <th>Bobot</th>
                    <?php foreach ($bobot_subkriteria[$key_kri
teria] as $key => $val) : ?>
                        <th><?= $key ?></th>
                    <?php endforeach ?>
                </tr>
            </thead>
            <?php foreach ($fahp-
>matrix_subkriteria[$key_kriteria] as $key => $val) : ?>
                <tr>
                    <td><?= $key ?></td>
                    <td><?= $SUBKRITERIA[$key]-
>nama_subkriteria ?></td>
                    <td><?= $SUBKRITERIA[$key]->nilai ?></td>
                    <?php foreach ($val as $k => $v) : ?>
                        <td><?= round($v, 3) ?></td>
                    <?php endforeach ?>
                </tr>
            <?php endforeach ?>

```

```

        </table>
    </div>
</div>

<div class="card mb-3">
    <div class="card-header text-danger">
        <strong>Konversi AHP</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Kode</th>
                    <?php foreach ($bobot_subkriteria[ $key_kri
teria] as $key => $val) : ?>
                        <th><?= $key ?></th>
                    <?php endforeach ?>
                </tr>
            </thead>
            <?php foreach ($fahp-
>konversi_subkriteria[ $key_kriteria] as $key => $val) : ?>
                <tr>
                    <td><?= $key ?></td>
                    <?php foreach ($val as $k => $v) : ?>
                        <td><?= round($v, 3) ?></td>
                    <?php endforeach ?>
                </tr>
            <?php endforeach ?>
            <tfoot>
                <tr>
                    <td>Total</td>
                    <?php foreach ($ahp-
>baris_total as $key => $val) : ?>
                        <td><?= round($val, 3) ?></td>
                    <?php endforeach ?>
                </tr>
            </tfoot>
        </table>
    </div>
    <div class="card-body text-danger">
        Normalisasi Matriks AHP
    </div>
    <div class="table-responsive">

```

```

        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Kode</th>
                    <?php foreach ($bobot_subkriteria[$key_kri
teria] as $key => $val) : ?>
                        <th><?= $key ?></th>
                    <?php endforeach ?>
                    <th>Eigen Vector</th>
                    <th>Consistency Measure</th>
                </tr>
            </thead>
            <?php foreach ($ahp->normal as $key => $val) : ?>
                <tr>
                    <td><?= $key ?></td>
                    <?php foreach ($val as $k => $v) : ?>
                        <td><?= round($v, 3) ?></td>
                    <?php endforeach ?>
                    <td><?= round($ahp-
>prioritas[$key], 3) ?></td>
                    <td><?= round($ahp->cm[$key], 3) ?></td>
                </tr>
            <?php endforeach ?>
        </table>
        <div class="card-footer">
            CI = <?= round($ahp->CI, 4) ?><br />
            RI = <?= round($ahp->RI, 4) ?><br />
            CR = <?= round($ahp->CR, 4) ?> (<?= $ahp-
>konsistensi ?>)<br />
        </div>
    </div>
</div>

<div class="card mb-3">
    <div class="card-header text-danger">
        <strong>Konversi FAHP</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Kode</th>

```

```

                <?php foreach ($bobot_subkriteria[$key_kri
teria] as $key => $val) : ?>
                    <th colspan="3"><?= $key ?></th>
                <?php endforeach ?>
                <th colspan="3">Total</th>
            </tr>
            <tr>
                <th>&nbsp;</th>
                <?php foreach ($bobot_subkriteria[$key_kriteria] a
s $key => $val) : ?>
                    <th>L</th>
                    <th>M</th>
                    <th>U</th>
                <?php endforeach ?>
                <th>L</th>
                <th>M</th>
                <th>U</th>
            </tr>
        </thead>
        <?php foreach ($fahp_sub-
>mfahp as $key => $val) : ?>
            <tr>
                <td><?= $key ?></td>
                <?php foreach ($val as $k => $v) : ?>
                    <?php foreach ($v as $a => $b) : ?>
                        <td><?= round($b, 3) ?></td>
                    <?php endforeach ?>
                <?php endforeach ?>
                <?php foreach ($fahp_sub-
>lmulmu[$key] as $a => $b) : ?>
                    <td><?= round($b, 3) ?></td>
                <?php endforeach ?>
            </tr>
        <?php endforeach ?>
        <tr>
            <td colspan="4"><?= count($bobot_subkriteria[$key
_kriteria]) * 3 + 1 ?>>Total</td>
            <?php foreach ($fahp_sub-
>lmulmu_total as $a => $b) : ?>
                <td><?= round($b, 3) ?></td>
            <?php endforeach ?>
        </tr>
    </table>
</div>

```

```

</div>

<div class="card mb-3">
  <div class="card-header text-danger">
    <strong>Nilai Sintesis</strong>
  </div>
  <div class="table-responsive">
    <table class="table table-bordered table-
striped table-hover m-0">
      <thead>
        <tr>
          <th>Kode</th>
          <th colspan="3">Nilai Sintesis</th>
        </tr>
        <tr>
          <th>&nbsp;</th>
          <th>L</th>
          <th>M</th>
          <th>U</th>
        </tr>
      </thead>
      <?php foreach ($fahp_sub->si as $key => $val) : ?>
        <tr>
          <td><?= $key ?></td>
          <?php foreach ($val as $a => $b) : ?>
            <td><?= round($b, 3) ?></td>
          <?php endforeach ?>
        </tr>
      <?php endforeach ?>
    </table>
  </div>
</div>

<div class="card mb-3">
  <div class="card-header text-danger">
    <strong>Penentuan Nilai Vektor (V) dan Nilai Ordinat D
efuzzifikasi (d')</strong>
  </div>
  <div class="card-body">
    <?php

    foreach ($fahp_sub-
>defuzzifikasi as $key => $val) : ?>
      <div class="card mb-3">

```



```

        <div class="card-header text-
danger"><?= $SUBKRITERIA[$key]->nama_subkriteria ?></div>
        <div class="table-responsive">
            <table class="table table-bordered table-
striped table-hover m-0">
                <thead>
                    <tr>
                        <th>Kode</th>
                        <th>a = l-u<?= $key ?></th>
                        <th>b = m<?= $key ?>-
u<?= $key ?></th>
                        <th>c = m-l</th>
                        <th>d = b-c</th>
                        <th>e = a/d</th>
                        <th>d'</th>
                    </tr>
                </thead>
                <?php foreach ($val as $k => $v) : ?>
                    <tr>
                        <td><?= $k ?></td>
                        <?php foreach ($v as $a => $b)
: ?>
                            <td><?= round($b, 3) ?></t
d>
                                <?php endforeach ?>
                            </tr>
                        <?php endforeach ?>
                    <tfoot>
                        <tr>
                            <td colspan="6">Nilai Minimum
(W)</td>
                            <td><?= round($fahp_sub-
>w[$key], 3) ?></td>
                        </tr>
                    </tfoot>
                </table>
            </div>
        </div>
    <?php endforeach ?>
</div>
<div class="card mb-3">
    <div class="card-header text-danger">

```

```

        <strong>Nilai Vektor W</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Kode</th>
                    <th>W</th>
                    <th>W Lokal</th>
                </tr>
            </thead>
            <?php foreach ($fahp_sub->w as $key => $val) : ?>
                <tr>
                    <td><?= $key ?></td>
                    <td><?= round($val, 3) ?></td>
                    <td><?= round($fahp_sub-
>w_lokal[$key], 3) ?></td>
                </tr>
            <?php endforeach ?>
        </table>
    </div>
</div>

```

### **Fahp\_cetak.php**

```

<div class="page-header text-danger">
    <h1>Perhitungan Fuzzy AHP</h1>
</div>
<?php
$bobot_kriteria = array();
foreach ($KRITERIA as $key => $val) {
    $bobot_kriteria[$key] = $val->bobot;
}
$bobot_subkriteria = array();
foreach ($SUBKRITERIA as $key => $val) {
    $bobot_subkriteria[$val->kode_kriteria][$val-
>kode_subkriteria] = $val->nilai;
    $atribut[$key] = $val->atribut;
}
$rel_alternatif = get_rel_alternatif();
$fahp = new FAHPAuto($bobot_kriteria, $bobot_subkriteria, $rel
_alternatif);
$aahp = new AHP($fahp->konversi_kriteria);

```

```

?>
<div class="card mb-3">
    <div class="card-header">
        <a href="#fahp_kriteria" data-
toggle="collapse">FAHP KRITERIA</a>
    </div>
    <div class="card-body collapse show" id="fahp_kriteria">
        <?php include 'fahp_kriteria.php'; ?>
    </div>
</div>
<?php foreach ($KRITERIA as $key_kriteria => $val_kriteria) :
?>
    <div class="card mb-3">
        <div class="card-header">
            <a href="#fahp_subkriteria_<?= $key_kriteria ?>" d
ata-toggle="collapse">FAHP <?= $val_kriteria-
>nama_kriteria ?></a>
        </div>
        <div class="card-
body collapse show" id="fahp_subkriteria_<?= $key_kriteria?>">
            <?php include 'fahp_subkriteria.php'; ?>
        </div>
    </div>
<?php endforeach ?>

<div class="card mb-3">
    <div class="card-header">
        <strong>Nilai Alternatif</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Kode</th>
                    <?php foreach ($SUBKRITERIA as $key => $val) : ?>
                        <th><?= $key ?> (<?= round($fahp-
>w_lokal_subkriteria[$key], 3) ?>)</th>
                    <?php endforeach ?>
                </tr>
            </thead>
            <?php foreach ($fahp->rel_alternatif as $key => $val) : ?>
                <tr>
                    <td><?= $key ?></td>

```

```

                <?php foreach ($val as $k => $v) : ?>
                    <td><?= round($v, 3) ?></td>
                <?php endforeach ?>
            </tr>
        <?php endforeach ?>
    </table>
</div>
</div>

```

```

<div class="card mb-3">
    <div class="card-header">
        <strong>Terbobot Subkriteria</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Kode</th>
                    <?php foreach ($SUBKRITERIA as $key => $val) : ?>
                        <th><?= $key ?> </th>
                    <?php endforeach ?>
                </tr>
            </thead>
            <?php foreach ($fahp-
>terbobot_sub as $key => $val) : ?>
                <tr>
                    <td><?= $key ?></td>
                    <?php foreach ($val as $k => $v) : ?>
                        <td><?= round($v, 3) ?></td>
                    <?php endforeach ?>
                </tr>
            <?php endforeach ?>
        </table>
    </div>
</div>

```

```

<div class="card mb-3">
    <div class="card-header">
        <strong>Rekap Per Kriteria</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">

```

```

        <thead>
            <tr>
                <th>Kode</th>
                <?php foreach ($KRITERIA as $key => $val)
: ?>
                    <th><?= $key ?> (<?= round($fahp-
>fahp->w_lokal[$key], 4) ?></th>
                <?php endforeach ?>
            </tr>
        </thead>
        <?php foreach ($fahp-terbobot_sub_rekap as $key => $val) : ?>
            <tr>
                <td><?= $key ?></td>
                <?php foreach ($val as $k => $v) : ?>
                    <td><?= round($v, 3) ?></td>
                <?php endforeach ?>
            </tr>
        <?php endforeach ?>
    </table>
</div>
</div>

```

```

<div class="card mb-3">
    <div class="card-header">
        <strong>Terbobot Kriteria</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Kode</th>
                    <?php foreach ($KRITERIA as $key => $val) : ?>
                        <th><?= $key ?></th>
                    <?php endforeach ?>
                </tr>
            </thead>
            <?php foreach ($fahp-
>terbobot_kriteria as $key => $val) : ?>
                <tr>
                    <td><?= $key ?></td>
                    <?php foreach ($val as $k => $v) : ?>
                        <td><?= round($v, 3) ?></td>
                    <?php endforeach ?>
                </tr>
            </tbody>
        </table>
    </div>
</div>

```

```

                </tr>
            <?php endforeach ?>
        </table>
    </div>
</div>

<div class="card mb-3">
    <div class="card-header">
        <strong>Perangkingan Fuzzy AHP</strong>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-
striped table-hover m-0">
            <thead>
                <tr>
                    <th>Rank</th>
                    <th>Kode</th>
                    <th>Nama</th>
                    <th>Total</th>
                </tr>
            </thead>
            <?php
                foreach ($fahp->rank as $key => $val) :
                    $db-
>query("UPDATE tb_alternatif SET fahp_total='{ $fahp-
>total[$key]}' , fahp_rank='$val' WHERE kode_alternatif='$key'"
);
                ?>
                <tr>
                    <td><?= $val ?></td>
                    <td><?= $key ?></td>
                    <td><?= $ALTERNATIF[$key]->nama_alternatif ?></td>
                    <td><?= round($fahp->total[$key], 3) ?></td>
                </tr>
            <?php endforeach ?>
        </table>
    </div>
</div>

```

### Laporan.php

```

<div class="page-header text-danger">
    <h1>Laporan Hasil Perhitungan</h1>
</div>
<div class="card mb-3">

```

```

<div class="card-header">
  <form class="form-inline">
    <input type="hidden" name="m" value="laporan" />
    <div class="mr-1">
      <input class="form-
control" type="text" placeholder="Pencarian. . ." name="q" val
ue="<?=$_get('q') ?>" />
    </div>
    <div class="mr-1">
      <button class="btn btn-
success"><span class="fa fa-sync"></span> Refresh</button>
    </div>
    <div class="mr-1" <?=$_is_hidden() ?>>
      <a class="btn btn-
info" href="cetak.php?m=laporan_faahp&q=<?=$_get('q') ?>" targe
t="_blank"><span class="fa fa-print"></span> Cetak FAHP</a>
    </div>
  </form>
</div>
<div class="table-responsive">
  <table class="table table-bordered table-hover table-
striped m-0">
    <thead>
      <tr>
        <th>No</th>
        <th>Kode</th>
        <th>Nama</th>
        <th>Keterangan</th>
        <th>Rank FAHP</th>
        <th>Total FAHP</th>
      </tr>
    </thead>
    <?php
    $q = esc_field($_get('q'));
    $rows = $db-
>get_results("SELECT * FROM tb_alternatif WHERE kode_alternati
f LIKE '%$q%' OR nama_alternatif LIKE '%$q%' ORDER BY kode_alt
ernatif");
    $no = 0;
    foreach ($rows as $row) : ?>
      <tr>
        <td><?=$_++$no ?></td>
        <td><?=$_$row->kode_alternatif ?></td>
        <td><?=$_$row->nama_alternatif ?></td>

```

```

                <td><?= $row->keterangan ?></td>
                <td><?= $row->fahp_rank ?></td>
                <td><?= round($row->fahp_total, 4) ?></td>
            </tr>
        <?php endforeach ?>
    </table>
</div>
</div>

```

### Laporan\_fahp\_cetak.php

```

<style>
    h1 {
        border: none;
    }
</style>
<div style="border-bottom: 4px double black;">
    <div style="width: 30%; float: left;">
        
    </div>
    <div style="width: 70%; float: right;text-align: center;">
        <h2 style="margin: 0; ">
            KEMENTERIAN PENDIDIKAN, KEBUDAYAAN<br />
            RISET, DAN TEKNOLOGI<br />
            POLITEKNIK NEGERI SRIWIJAYA
        </h2>
        <p style="margin: 10px 0;">
            Jalan Sriwijaya Negara Bukit Besar - Palembang 301
            39 Telepon (0711) 353414 <br />
            Halaman : http://polsri.ac.id, Pos El : info@polsr
            i.ac.id
        </p>
    </div>
    <div style="clear: both;"></div>
</div>
<p>Dengan rekapitulasi nilai sebagai berikut :</p>
<h1>Laporan Hasil Perangkingan FAHP</h1>
<table style="width: 100%;">
    <thead>
        <tr>
            <th>Rank</th>
            <th>Kode</th>
            <th>Nama</th>
            <th>Keterangan</th>
        <?php foreach ($SUBKRITERIA as $key => $val) : ?>

```



```

                <th><?= $key ?></th>
            <?php endforeach ?>
            <th>Total</th>
        </tr>
    </thead>
    <?php
    $rows = $db-
>get_results("SELECT * FROM tb_alternatif ORDER BY fahp_rank"
);
    $rel_alternatif = get_rel_alternatif();
    foreach ($rows as $row) : ?>
        <tr>
            <td><?= $row->fahp_rank ?></td>
            <td><?= $row->kode_alternatif ?></td>
            <td><?= $row->nama_alternatif ?></td>
            <td><?= $row->keterangan ?></td>
            <?php foreach ($rel_alternatif[$row-
>kode_alternatif] as $k => $v) : ?>
                <td><?= $v ?></td>
            <?php endforeach ?>
            <td><?= round($row->fahp_total, 4) ?></td>
        </tr>
    <?php endforeach ?>
</table>
<p>Demikian Berita Acara penilaian seleksi dalam acara Pemilih
an Mahasiswa Berprestasi Tingkat
    Polsri Tahun <?= date('Y') ?> dibuat untuk dipergunakan se
bagaimanamestinya.</p>

<div>
    <div style="float: right; text-align: center; margin-
top: 20px;">
        Kota Anda, <?= tgl_indo(date('Y-m-d')) ?><br />
        Mengetahui<br />
        <br />
        <br />
        <br />
        <br />
        Nama Pimpinan Anda
    </div>
</div>

```

LEMBAR DISPOSISI

Dari: WAKIL DIREKTUR I

Kepada:

- WADIR I
- WADIR II
- WADIR III
- Kepala Jurusan
- 

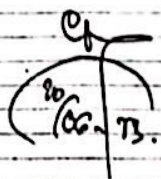
- Kepala Administrasi dan Pembinaan
- Kepala Umum, Keuangan dan Perencanaan
- Ka. PIR

Keputusan:

- untuk diketahui
- untuk diteliti
- untuk ditinjau
- untuk dimanfaatkan
- harap tanggapan
- untuk didakan
- untuk dipertimbangkan
- surikan konsep perjanjian
- harap segera diteliti
- koordinasikan dengan

SUB. HOOD. KEMAHARISWAN.

Agar ditindaklanjuti pengambilan data tsb.



yth. WDBK

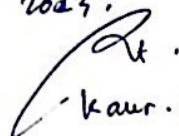
- 1) Mohon arahan, apakah dapat kita acc terkait pengambilan data ini.
  - 2) Dan mohon ijin untuk mengarahkan mahasiswa tersebut untuk diarahkan ke UKM Mars.
- 14/1/23  
Ruman. Silakan hubungi Sub D UKM Mars.  
Gedung Apiter 79 Street  
Kampus Poltek  
Via. Kemahasiswaan 1/23

Kepala kehu UKM MARS (PANGGILIH)

Mohon dibantu untuk pengambilan data yang dibutuhkan.

Agar berkoordinasi dg kehu Panitia dari UKM Mars / Pengambilan data tersebut.

14/Jan 2023.

  
Kaur. Kemahasiswaan.



Nomor : 832/PL.6.1.15/AK/2023

16 Juni 2023

Lamp : 1 (dua) berkas

Perihal : Izin Pengambilan Data

Kepada Yth.  
Wakil Direktur I  
Politeknik Negeri Sriwijaya

Dengan Hormat,

Sesuai dengan Kurikulum Program D-III pada Politeknik Negeri Sriwijaya Jurusan Teknik Komputer bahwa Tugas Akhir (TA) merupakan mata kuliah wajib. Untuk itu, mahasiswa kami memerlukan data untuk penyusunan Tugas Akhir tersebut. Sehubungan dengan hal diatas, kami mohon agar dapat diberikan Izin dan membantu mahasiswa kami ini untuk mengumpulkan data Pemilihan Mahasiswa Berprestasi (Pilmapres). Adapun data-data yang dibutuhkan adalah sebagai berikut :

1. Data Prosedur Pendaftaran
2. Data Prosedur Pelaksanaan
3. Data Pengelolaan Penilaian
4. Data Excel Perhitungan Hasil Penilaian

Berikut daftar nama mahasiswa tersebut yang akan melaksanakan Tugas Akhir :

No.	Nama	NIM	Kelas	Judul Tugas Akhir
1.	Mutiara Ayu Dasilpha	062030701652	6CC	Penerapan Metode <i>Fuzzy Ahp</i> Dalam Sistem Pendukung Keputusan Aplikasi Pemilihan Mahasiswa Berprestasi Di Politeknik Negeri Sriwijaya
2.	Nyayu Yasmin Nailufar	062030701653	6CC	Aplikasi Sistem Pendukung Keputusan Pada Pemilihan Mahasiswa Berprestasi Di Politeknik Negeri Sriwijaya Dengan Metode <i>Fuzzy Simple Additive Weighting (Saw)</i>

Demikianlah surat izin pengambilan data ini kami buat, atas bantuan dan kerjasamanya kami ucapkan terima kasih.

Hormat Kami,  
Ketua Jurusan Teknik Komputer,

Azwardi, S.T., M.T  
NIP. 197005232005011004





**KEMENTERIAN PENDIDIKAN, KEBUDAYAAN  
RISET DAN TEKNOLOGI  
POLITEKNIK NEGERI SRIWIJAYA**



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Telp. 0711-353414 Fax. 0711-355918  
Website : www.polisriwijaya.ac.id E-mail : info@polsri.ac.id



**LEMBAR BIMBINGAN LAPORAN TUGAS AKHIR**

Nama Mahasiswa	: Mutiara Ayu Dasilpha
NIM	: 062030701652
Jurusan/Program Studi	: Teknik Komputer/D3 Teknik Komputer
Dosen Pembimbing	: Ir. Alan Novi Tompunu, S.T., M.T., IPM.
Judul	: Penerapan Metode Fuzzy AHP Dalam Sistem Pendukung Keputusan Aplikasi Pemilihan Mahasiswa Berprestasi Di Politeknik Negeri Sriwijaya

NO	TANGGAL	URAIAN	PARAF PEMBIMBING
1.	28-Feb-2023	ACC Judul	
2.	8-Mar-2023	Laporan Proposal Bab I, Bab II, Bab III Bab IV dan lampiran	
3.	14-Mar-2023	Proposal disetujui	
4.	24-Mei-2023	Perbaiki latar Belakang	
5.	29-Mei-2023	-Perbaiki kata awalan yang monoton pada batasan masalah, tujuan dan manfaat. -Tambah Narasi tinjauan pustaka pada Xampp -Uraikan cara pengutipan	
6.	15-Juni-2023	- Penelitian terdahulu dibuat dlm bentuk paragraf	
7.	5-Juli-2023	- ACC Bab I, Bab II dan Bab III - Lanjut ke Bab IV	
8.	20-Juli-2023	-Revisi Bab IV dan Bab V -Lengkapi data pendukung Tugas Akhir yang diambil dari panitia Pilmapres Polsri 2023	

9.	24/07 - 2023	Revisi Bab <u>V</u> dan aplikasi	
10.	26/07 - 2023	ACC dan direkomendasikan sidang	

Palembang, Juli 2023

Mengetahui,  
Ketua Jurusan



Azwardi, S.T., M.T

NIP.197005232005011004





KEMENTERIAN PENDIDIKAN, KEBUDAYAAN  
RISET DAN TEKNOLOGI  
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Website : www.polisriwijaya.ac.id E-mail : info@polsri.ac.id



LEMBAR BIMBINGAN LAPORAN TUGAS AKHIR

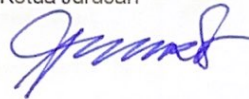
Nama Mahasiswa	:	Mutiara Ayu Dasilpha
NIM	:	062030701652
Jurusan/Program Studi	:	Teknik Komputer/D3 Teknik Komputer
Dosen Pembimbing	:	Ica Admirani, S.Kom., M.Kom.
Judul	:	Penerapan Metode Fuzzy AHP Dalam Sistem Pendukung Keputusan Aplikasi Pemilihan Mahasiswa Berprestasi Di Politeknik Negeri Sriwijaya

NO	TANGGAL	URAIAN	PARAF PEMBIMBING
1.	16-Mei-2023	Revisi Bab 1, 2 dan 3	
2.	29 Mei 2023	- Revisi latar belakang - Perbaiki citasi dan lampir - Perbaiki blok diagram disosai dengan metode - Perbaiki perancangan database - Perbaiki perancangan web	
3.	7 Juni 2023	ACC bab 1, 2, 3 lanjutkan bab 4	
4.	20 Juli 2023	Revisi Aplikasi	
5.	26/7-2023	Revisi Aplikasi	
6.	31/7-2023	ACC Aplikasi Bahasa dan lampir disosai dengan metode yg dibahas	
7.	2/8-2023	- Revisi Bab 4 pembahasa - Revisi Kesimpulan	
8.	4/8-2023	- ACC Laporan Akhir	

--	--	--	--

Palembang, Juli 2023

Mengetahui,  
Ketua Jurusan



Azwardi, S.T., M.T  
NIP.197005232005011004



**KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET DAN TEKNOLOGI  
POLITEKNIK NEGERI SRIWIJAYA JURUSAN  
TEKNIK KOMPUTER**

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Website : [www.polsri.ac.id](http://www.polsri.ac.id) E-mail : [info@polsri.ac.id](mailto:info@polsri.ac.id)



**REKOMENDASI UJIAN TUGAS AKHIR**

Pembimbing Laporan Tugas Akhir, memberikan rekomendasi ujian laporan tugas akhir kepada,

Nama Mahasiswa	:	Mutiara Ayu Dasilpha
NIM	:	062030701652
Jurusan/Program Studi	:	Teknik Komputer/D3 Teknik Komputer
Judul Tugas Akhir	:	Penerapan Metode <i>Fuzzy</i> AHP Dalam Sistem Pendukung Keputusan Aplikasi Pemilihan Mahasiswa Berprestasi Di Politeknik Negeri Sriwijaya

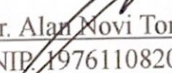
Mahasiswa tersebut telah memenuhi persyaratan dan dapat mengikuti Ujian Laporan Tugas Akhir, pada Tahun Akademik 2023/2024

Palembang, Juli 2023

Disetujui oleh,

Pembimbing I

Pembimbing II

  
Ir. Alan Novi Tompunu, S.T.,M.T.,IPM.  
NIP. 197611082000031002

  
Ica Admirani, S.Kom.,M.Kom.  
NIP. 197903282005012001





KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI

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JURUSAN TEKNIK KOMPUTER

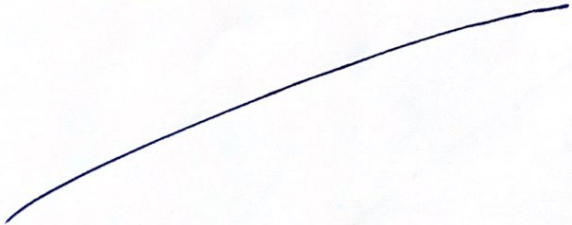

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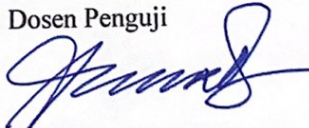
REVISI UJIAN TUGAS AKHIR

Ruang : 1  
Dosen Penguji : Azwardi, S.T., M.T.  
Nama Mahasiswa : Muriara Ayu Dasilpha  
NIM : 062030701652  
Jurusan/Program Studi : Teknik Komputer/D3 Teknik Komputer  
Judul Tugas Akhir : Penerapan Metode *Fuzzy* AHP Dalam Sistem Pendukung Keputusan Aplikasi Pemilihan Mahasiswa Berprestasi Di Politeknik Negeri Sriwijaya

No	Uraian Revisi	Paraf
		

Palembang, 8 Agustus 2023

Dosen Penguji



Azwardi, S.T., M.T.

NIP. 197005232005011004



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI

POLITEKNIK NEGERI SRIWIJAYA

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REVISI UJIAN TUGAS AKHIR

Ruang : 1  
Dosen Penguji : Ir. A Bahri Joni Malyan, M.Kom.  
Nama Mahasiswa : Muriara Ayu Dasilpha  
NIM : 062030701652  
Jurusan/Program Studi : Teknik Komputer/D3 Teknik Komputer  
Judul Tugas Akhir : Penerapan Metode *Fuzzy* AHP Dalam Sistem Pendukung Keputusan Aplikasi Pemilihan Mahasiswa Berprestasi Di Politeknik Negeri Sriwijaya

No	Uraian Revisi	Paraf

Palembang, 8 Agustus 2023

Dosen Penguji

Ir. A Bahri Joni Malyan, M.Kom.

NIP. 196007101991031001





KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI  
POLITEKNIK NEGERI SRIWIJAYA

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REVISI UJIAN TUGAS AKHIR

Ruang : 1  
Dosen Penguji : Indarto, S.T., M.Cs.  
Nama Mahasiswa : Muriara Ayu Dasilpha  
NIM : 062030701652  
Jurusan/Program Studi : Teknik Komputer/D3 Teknik Komputer  
Judul Tugas Akhir : Penerapan Metode *Fuzzy* AHP Dalam Sistem Pendukung Keputusan Aplikasi Pemilihan Mahasiswa Berprestasi Di Politeknik Negeri Sriwijaya

No	Uraian Revisi	Paraf
—	2.1 Hapus.	
—	Bab 2. Testi tgg Metode Pengembangan App. SDLC mis: waterfall, RAD, Spiral dll.	
—	Bab 3. Harusnya ikut metode yg anda pilih.	

Palembang, 8 Agustus 2023

Dosen Penguji

Indarto, S.T., M.Cs.

NIP. 197307062005011003





KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI

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Jalan Sriwijaya Negara, Palembang 30139 Telp. 0711-353414

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REVISI UJIAN TUGAS AKHIR

Ruang : 1  
Dosen Penguji : Ali Firdaus, S.Kom., M.Kom.  
Nama Mahasiswa : Muriara Ayu Dasilpha  
NIM : 062030701652  
Jurusan/Program Studi : Teknik Komputer/D3 Teknik Komputer  
Judul Tugas Akhir : Penerapan Metode *Fuzzy* AHP Dalam Sistem Pendukung Keputusan Aplikasi Pemilihan Mahasiswa Berprestasi Di Politeknik Negeri Sriwijaya

No	Uraian Revisi	Paraf
	<i>Persali Caporan</i>	

Palembang, 8 Agustus 2023

Dosen Penguji

Ali Firdaus, S.Kom., M.Kom.

NIP. 197010112001121001



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI

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JURUSAN TEKNIK KOMPUTER

Jalan Srijaya Negara, Palembang 30139 Telp. 0711-353414

Website : [www.polsri.ac.id](http://www.polsri.ac.id) E-mail : [info@polsri.ac.id](mailto:info@polsri.ac.id)



REVISI UJIAN TUGAS AKHIR

Ruang : 1  
Dosen Penguji : Ica Admirani, S.Kom., M.Kom.  
Nama Mahasiswa : Muriara Ayu Dasilpha  
NIM : 062030701652  
Jurusan/Program Studi : Teknik Komputer/D3 Teknik Komputer  
Judul Tugas Akhir : Penerapan Metode *Fuzzy* AHP Dalam Sistem Pendukung Keputusan Aplikasi Pemilihan Mahasiswa Berprestasi Di Politeknik Negeri Sriwijaya

No	Uraian Revisi	Paraf

Palembang, 8 Agustus 2023

Dosen Penguji

Ica Admirani, S.Kom., M.Kom.

NIP. 19790328200502001





KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI

POLITEKNIK NEGERI SRIWIJAYA

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Website : www.polsri.ac.id E-mail : info@polsri.ac.id



PELAKSANAAN REVISI UJIAN TUGAS AKHIR (TA)

Mahasiswa berikut,

Nama : Mutiara Ayu Dasilpha  
NIM : 062030701652  
Jurusan/Program Studi : Teknik Komputer/DIII-Teknik Komputer  
Judul Tugas Akhir : Penerapan Metode *Fuzzy* AHP Dalam Sistem Pendukung Keputusan Aplikasi Pemilihan Mahasiswa Berprestasi Di Politeknik Negeri Sriwijaya

Telah melaksanakan revisi terhadap Laporan Tugas Akhir yang telah diujikan pada hari Selasa tanggal 8 bulan Agustus tahun 2023 Pelaksanaan revisi terhadap Laporan Tugas Akhir tersebut telah disetujui oleh Dosen Penguji yang memberikan revisi:

No.	Komentar	Nama Dosen Penguji *)	Tanggal	Tanda Tangan
1.	Disetujui	Azwardi, S.T., M.T.	14/8 -2023	
2.	Revisi	Ir. A Bahri Joni Malyan, M.Kom.	15/8/2023	
3.	Ok	Indarto, S.T., M.Cs.	16/8/23	
4.	Ok	Ali Firdaus, S.Kom., M.Kom.	27/8-23	
5.	Acc	Ica Admirani, S.Kom., M.Kom.	14/8-2023	

Palembang, Agustus 2023

Ketua Penguji






Azwardi, S.T., M.T.

NIP. 197005232005011004









**LOGBOOK**  
**KEGIATAN TUGAS AKHIR**

Nama : Mutiara Ayu Dasilpha  
 NIM : 062030701652  
 Judul Tugas Akhir : Penerapan Metode *Fuzzy* AHP Dalam Sistem Pendukung Keputusan Aplikasi Pemilihan Mahasiswa Berprestasi Di Politeknik Negeri Sriwijaya  
 Pembimbing Tugas Akhir : Ir. Alan Novi Tompunu, S.T., M.T., IPM.

No	Hari/Tanggal	Kegiatan	Hasil	Paraf Dosen
1	Rabu, 24 Mei 2023	Pembuatan <i>software</i> dan mencari data pilmapres 2023	Program <i>software</i> dengan progres 30% dan data pilmapres 2023	
2	Jum'at, 26 Mei 2023	Pembuatan <i>software</i> dan laporan tugas akhir	Program <i>software</i> dengan progres 40% dan laporan tugas bab 1	
3	Senin, 29 Mei 2023	Pembuatan <i>software</i> dan bimbingan laporan TA bab 1 - bab 3	Program <i>software</i> dengan progres 50% dan revisi laporan TA bab 1 - bab 3	
4	Selasa, 30 Mei 2023	Pembuatan laporan TA bab 1 - bab 3	Revisi laporan TA bab 1 - bab 3	
5	Rabu, 31 Mei 2023	Mempelajari rumus <i>fuzzy ahp</i> dan menambahkan dalam program <i>software</i>	Pemahaman rumus <i>fuzzy ahp</i> dan program <i>software</i>	



No	Hari/Tanggal	Kegiatan	Hasil	Paraf Dosen
6	Rabu, 14 Juni 2023	Perbaikan <i>database</i> dan tampilan aplikasi	<i>Database</i> dan tampilan aplikasi	
7	Kamis, 15 Juni 2023	Perbaikan <i>software</i> dan bimbingan laporan TA bab 1-bab 3	Program <i>software</i> dengan progress 55% dan revisi laporan TA bab 2	
8	Rabu, 05 Juli 2023	Bimbingan laporan TA bab 1-bab 3 dan <i>software</i>	Program <i>software</i> dengan progress 85% dan acc bab 1-bab 3	
9	Kamis, 20 Juli 2023	Bimbingan laporan TA bab 4-bab 5 dan <i>software</i>	Program <i>software</i> dengan progress 95% dan revisi laporan TA bab 4-bab 5	
10	Senin, 24 Juli 2023	Bimbingan laporan TA bab 4-bab 5 dan <i>software</i>	Program <i>software</i> 100% dan revisi laporan TA bab 5	
11	Selasa, 25 Juli 2023	Bimbingan laporan TA bab 5 dan <i>software</i>	Pengecekan ulang program dan revisi bab 5	
12	Rabu, 26 Juli 2023	Bimbingan laporan TA bab 5 dan <i>software</i>	Program dan laporan di acc rekomendasi sidang	