

LAMPIRAN IV

SOURCE CODE

➤ index.php

```
<html xmlns="http://www.w3.org/1999/xhtml" dir="ltr" lang="en-US"
xml:lang="en">
<head>
    <meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" />
    <title> Sistem Pendukung Keputusan</title>
    <link rel="stylesheet" href="style.css" type="text/css"
media="screen" />
    <link rel="stylesheet" href="css/jquery-ui-
1.10.0.custom.min.css" type="text/css" media="screen" />
    <link rel='icon' href='admin/images/lokasi.png'
type='image/x-icon' />
    <script type="text/javascript"
src="js/jquery.min.js"></script>
    <script type="text/javascript" src="js/jquery-ui-
1.10.0.custom.min.js"></script>
    <script type="text/javascript" src="script.js"></script>
    <style type="text/css">
        .art-post .layout-item-0 { padding-right: 10px;padding-left:
10px; }
        .ie7 .art-post .art-layout-cell {border:none !important;
padding:0 !important; }
        .ie6 .art-post .art-layout-cell {border:none !important;
padding:0 !important; }
    </style>
</head>
<body>
    <div id="art-page-background-middle-texture">
    <div id="art-main">
    <div class="cleared reset-box"></div>
    <div class="art-box art-sheet">
        <div class="art-box-body art-sheet-body">
    <div class="art-header">
```

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        <div class="art-headerobject"></div>
        <div class="art-logo"><h1 class="art-logo-name"><a
href="./index.html">Sistem Pendukung Keputusan</a></h1>
<h2 class="art-logo-text">Pemilihan Lokasi Rumah Tinggal</h2>
        </div> </div>
<div class="cleared reset-box"></div>
<div class="art-bar art-nav">
<div class="art-nav-outer">
        <ul class="art-hmenu"></ul>
</div></div>
<div class="cleared reset-box"></div>
<div class="art-layout-wrapper">
        <div class="art-content-layout">
                <div class="art-content-layout-row">
                        <div class="art-layout-cell art-sidebar1">
<div class="art-box art-vmenublock">
<div class="art-box-body art-vmenublock-body">
<div class="art-box art-vmenublockcontent">
<div class="art-box-body art-vmenublockcontent-body">
                <?php include "menu.php"; ?>
<div class="cleared"></div>
        </div></div>
                <div class="cleared"></div></div></div>
                <div class="cleared"></div>
        </div>
                <div class="art-layout-cell art-content">
<div class="art-box art-post">
<div class="art-box-body art-post-body">
<div class="art-post-inner art-article">
<div class="art-postcontent">
                <div class="art-content-layout">
<div class="art-content-layout-row">
<div class="art-layout-cell layout-item-0"
style="width: 100%;">
                <?php
                if ($_GET[page]=="") {
                ?>

```

```

        <h2 class="art-postheader"><span class="art-
postheadericon">Selamat Datang </span></h2>
        <p>
        <p>Selamat datang di Sistem Informasi Pendukung Keputusan
Pemilihan Lokasi Rumah Tinggal. Sistem ini bertujuan untuk
membantu dalam merekomendasikan pilihan lokasi rumah tinggal di
wilayah Gresik dengan menggunakan metode fuzzy AHP dan Cumulative
Voting </p>
        <p> Sistem Pendukung Keputusan Pemilihan rumah tinggal ini
digunakan sebagai persyaratan menjadi Sarjana Komputer pada
Program Studi Teknik Informatika Fakultas Teknik Universitas
Muhammadiyah Gresik tahun 2013 </p>
        <?php
                }else{
                if (file_exists($_GET[page].".php")){
                require_once $_GET[page].".php";
                }}
                ?>
</div></div></div></div>
        <div class="cleared"></div>
</div>
        <div class="cleared"></div>
</div></div>
        <div class="cleared"></div>
</div></div></div></div>
        <div class="cleared"></div>
<div class="art-footer">
        <div class="art-footer-body">
<a href="#" class="art-rss-tag-icon" title="RSS"></a>
<div class="art-footer-text">
<p><span style="color: #3300CC;">Copyright © 2013. All
Rights Reserved.</span></p>
        </div>
        <div class="cleared"></div>
</div> </div>

```

```

        <div class="cleared"></div>
    </div> </div>
    <div class="cleared"></div>
    <div class="cleared"></div>
</div></div>
</body>
</html>

```

➤ **menu.php**

```

<ul class="art-vmenu">
    <li> <a href="?index.php">Home</a> </li>
    <li> <a href="?page=perbandingan">Perbandingan
Alternatif</a> </li>
    <li> <a href="?page=grafik">Rekomendasi Sistem</a> </li>
    <li> <a href="?page=perumahan">Lihat Perumahan</a> </li>
</ul>

```

➤ **koneksi.php**

```

<?php
    $host ="localhost";
    $username="root";
    $password="";
    //nama database
    $database = "sistem_spk";
    $koneksi = mysql_connect($host, $username, $password);
    $pilihdatabase = mysql_select_db($database, $koneksi);
?>

```

➤ **grafik.php**

```

<?php
include"koneksi.php";
include"FusionCharts/FC_Colors.php";
include"FusionCharts/FusionCharts_Gen.php";
include"FusionCharts/FusionCharts.php";

echo"<SCRIPT LANGUAGE='Javascript'

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SRC='FusionCharts/FusionCharts.js'></SCRIPT>";
echo"<center><div><SCRIPT LANGUAGE='Javascript'
SRC='FusionCharts/FusionCharts.js'></SCRIPT>";

    $FC = new FusionCharts("Column3D","550","350");
    $FC->setSWFPath("FusionCharts/");

    $strParam="caption=Grafik sistem pendukung keputusan
pemilihan lokasi rumah tinggal ; subcaption=Metode Fuzzy AHP dan
Comulative Voting; xAxisName=Alternatif; yAxisName=Jumlah;
numberPrefix=; decimalPrecision=3";

    $FC->setChartParams($strParam);
    $qr=mysql_query("SELECT nama_alternatif, bobot_total FROM
tbl_hasil_akhir ORDER BY id_history DESC LIMIT 0,8");
    while($data=mysql_fetch_array($qr)){
    $FC-
>addChartData("$data[bobot_total]","name=$data[nama_alternatif]");
    }
    $FC->renderChart();
echo"</div></center> </br>";

$stampil = mysql_query ("SELECT keterangan FROM peringkat");
/*
echo "<b>Hasil rekomendasi sistem :</b></br>";

$no = 1;
while ($data=mysql_fetch_array($stampil)){
echo"<tr>
    <td>$no </td>
    <td>$data[keterangan]</td>
    </tr></br> ";
$no++; }
?>

```

➤ Perbandingan.php

```
html lang="en">
<head>
<meta charset="utf-8" />
<title></title>
<link rel="stylesheet" href="/resources/demos/style.css" />

<script>
$(function() {
$( "#accordion" ).accordion({
collapsible: true });
});
</script>

</head>
<body>
<form method="POST" action="?page=submit">
<div id="accordion">

<h6><b>Perbandingan alternatif dengan kriteria kedekatan tempat
kerja</b></h6><div>
<table>
<tr bgcolor='#ACC8AD'> <td>1</td>
<td> Gresik Kota Baru (GKB) dengan Green Hill (GH)</td>
<td> <select name="kedekatan[GKB-GH]">
<option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
<option value="1"> Sama pentingnya </option>
<option value="2"> Pertengahan sedikit</option>
<option value="3"> Sedikit lebih penting</option>
<option value="4"> Pertengahan lebih</option>
<option value="5"> Lebih penting </option>
<option value="6"> Pertengahan sangat</option>
<option value="7"> Sangat penting </option>
<option value="8"> Pertengahan mutlak</option>
<option value="9"> Mutlak lebih penting </option>
<option disabled="disabled" value="" selected>- Pilih
```

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Kebalikan -</option>
    <option value="0.5"> Pertengahan sedikit</option>
    <option value="0.33"> Sedikit lebih penting</option>
    <option value="0.25"> Pertengahan lebih</option>
    <option value="0.20"> Lebih penting </option>
    <option value="14"> Pertengahan sangat</option>
    <option value="0.17"> Sangat penting </option>
    <option value="0.14"> Pertengahan multak</option>
    <option value="0.11"> Mutlak lebih penting </option>
</select>
</td> </tr>

<tr> <td>2</td>
<td> Gresik Kota Baru (GKB) dengan Alam Bukit Raya (ABR) </td>
    <td><select name="kedekatan[GKB-ABR]">
    <option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
    <option value="1"> Sama pentingnya </option>
    <option value="2"> Pertengahan sedikit</option>
    <option value="3"> Sedikit lebih penting</option>
    <option value="4"> Pertengahan lebih</option>
    <option value="5"> Lebih penting </option>
    <option value="6"> Pertengahan sangat</option>
    <option value="7"> Sangat penting </option>
    <option value="8"> Pertengahan mutlak</option>
    <option value="9"> Mutlak lebih penting </option>
    <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
    <option value="0.5"> Pertengahan sedikit</option>
    <option value="0.33"> Sedikit lebih penting</option>
    <option value="0.25"> Pertengahan lebih</option>
    <option value="0.20"> Lebih penting </option>
    <option value="14"> Pertengahan sangat</option>
    <option value="0.17"> Sangat penting </option>
    <option value="0.14"> Pertengahan multak</option>
    <option value="0.11"> Mutlak lebih penting </option>
</select>

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</td> </tr>

<tr bgcolor='#ACC8AD'> <td>3</td>
<td> Gresik Kota Baru (GKB) dengan Pondok Permata Suci (PPS) </td>
<td> <select name="kedekatan[GKB-PPS]">
<option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
<option value="1"> Sama pentingnya </option>
<option value="2"> Pertengahan sedikit</option>
<option value="3"> Sedikit lebih penting</option>
<option value="4"> Pertengahan lebih</option>
<option value="5"> Lebih penting </option>
<option value="6"> Pertengahan sangat</option>
<option value="7"> Sangat penting </option>
<option value="8"> Pertengahan mutlak</option>
<option value="9"> Mutlak lebih penting </option>
<option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
<option value="0.5"> Pertengahan sedikit</option>
<option value="0.33"> Sedikit lebih penting</option>
<option value="0.25"> Pertengahan lebih</option>
<option value="0.20"> Lebih penting </option>
<option value="14"> Pertengahan sangat</option>
<option value="0.17"> Sangat penting </option>
<option value="0.14"> Pertengahan multak</option>
<option value="0.11"> Mutlak lebih penting </option>
</select>
</td> </tr>

<tr><td>4</td>
<td> Gresik Kota Baru (GKB) dengan Taman Anggrek (TA) </td>
<td> <select name="kedekatan[GKB-TA]">
<option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
<option value="1"> Sama pentingnya </option>
<option value="2"> Pertengahan sedikit</option>
<option value="3"> Sedikit lebih penting</option>

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<option value="4"> Pertengahan lebih</option>
<option value="5"> Lebih penting </option>
<option value="6"> Pertengahan sangat</option>
<option value="7"> Sangat penting </option>
<option value="8"> Pertengahan mutlak</option>
<option value="9"> Mutlak lebih penting </option>
<option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
<option value="0.5"> Pertengahan sedikit</option>
<option value="0.33"> Sedikit lebih penting</option>
<option value="0.25"> Pertengahan lebih</option>
<option value="0.20"> Lebih penting </option>
<option value="14"> Pertengahan sangat</option>
<option value="0.17"> Sangat penting </option>
<option value="0.14"> Pertengahan mutlak</option>
<option value="0.11"> Mutlak lebih penting </option>
</select>
</td> </tr>

<tr bgcolor='#ACC8AD'><td>5</td>
<td>Gresik Kota Baru (GKB) dengan Platinum Regency (PR) </td>
<td><select name="kedekatan[GKB-PR]">
<option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
<option value="1"> Sama pentingnya </option>
<option value="2"> Pertengahan sedikit</option>
<option value="3"> Sedikit lebih penting</option>
<option value="4"> Pertengahan lebih</option>
<option value="5"> Lebih penting </option>
<option value="6"> Pertengahan sangat</option>
<option value="7"> Sangat penting </option>
<option value="8"> Pertengahan mutlak</option>
<option value="9"> Mutlak lebih penting </option>
<option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
<option value="0.5"> Pertengahan sedikit</option>
<option value="0.33"> Sedikit lebih penting</option>

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        <option value="0.25"> Pertengahan lebih</option>
        <option value="0.20"> Lebih penting </option>
        <option value="14"> Pertengahan sangat</option>
        <option value="0.17"> Sangat penting </option>
        <option value="0.14"> Pertengahan multak</option>
        <option value="0.11"> Mutlak lebih penting </option>
        </select>
    </td> </tr>

    <tr><td>6</td>
    <td>Gresik Kota Baru (GKB) dengan Bukit Emas Dahan Rejo (BED)</td>
        <td><select name="kedekatan[GKB-BED]">
            <option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
            <option value="1"> Sama pentingnya </option>
            <option value="2"> Pertengahan sedikit</option>
            <option value="3"> Sedikit lebih penting</option>
            <option value="4"> Pertengahan lebih</option>
            <option value="5"> Lebih penting </option>
            <option value="6"> Pertengahan sangat</option>
            <option value="7"> Sangat penting </option>
            <option value="8"> Pertengahan mutlak</option>
            <option value="9"> Mutlak lebih penting </option>
            <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
            <option value="0.5"> Pertengahan sedikit</option>
            <option value="0.33"> Sedikit lebih penting</option>
            <option value="0.25"> Pertengahan lebih</option>
            <option value="0.20"> Lebih penting </option>
            <option value="14"> Pertengahan sangat</option>
            <option value="0.17"> Sangat penting </option>
            <option value="0.14"> Pertengahan multak</option>
            <option value="0.11"> Mutlak lebih penting </option>
        </select>
    </td></tr>

    <tr bgcolor='#ACC8AD'><td>7</td>

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```

<td> Gresik Kota Baru (GKB) dengan De' Royal Kedanyang (DK)</td>
  <td><select name="kedekatan[GKB-DK]">
    <option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
    <option value="1"> Sama pentingnya </option>
    <option value="2"> Pertengahan sedikit</option>
    <option value="3"> Sedikit lebih penting</option>
    <option value="4"> Pertengahan lebih</option>
    <option value="5"> Lebih penting </option>
    <option value="6"> Pertengahan sangat</option>
    <option value="7"> Sangat penting </option>
    <option value="8"> Pertengahan mutlak</option>
    <option value="9"> Mutlak lebih penting </option>
    <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
    <option value="0.5"> Pertengahan sedikit</option>
    <option value="0.33"> Sedikit lebih penting</option>
    <option value="0.25"> Pertengahan lebih</option>
    <option value="0.20"> Lebih penting </option>
    <option value="14"> Pertengahan sangat</option>
    <option value="0.17"> Sangat penting </option>
    <option value="0.14"> Pertengahan multak</option>
    <option value="0.11"> Mutlak lebih penting </option>
  </select>
</td> </tr>

```

```

<tr><td>8</td>

```

```

<td> Green Hill (GH) dengan Alam Bukit Raya (ABR) </td>
  <td><select name="kedekatan[GH-ABR]">
    <option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
    <option value="1"> Sama pentingnya </option>
    <option value="2"> Pertengahan sedikit</option>
    <option value="3"> Sedikit lebih penting</option>
    <option value="4"> Pertengahan lebih</option>
    <option value="5"> Lebih penting </option>
    <option value="6"> Pertengahan sangat</option>

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```
<option value="7"> Sangat penting </option>
<option value="8"> Pertengahan mutlak</option>
<option value="9"> Mutlak lebih penting </option>
<option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
<option value="0.5"> Pertengahan sedikit</option>
<option value="0.33"> Sedikit lebih penting</option>
<option value="0.25"> Pertengahan lebih</option>
<option value="0.20"> Lebih penting </option>
<option value="14"> Pertengahan sangat</option>
<option value="0.17"> Sangat penting </option>
<option value="0.14"> Pertengahan multak</option>
<option value="0.11"> Mutlak lebih penting </option>
</select>
</td> </tr>
```

```
<tr bgcolor='#ACC8AD'><td>9</td>
<td>Green Hill (GH) dengan Pondok Permata Suci (PPS) </td>
<td><select name="kedekatan[GH-PPS]">
<option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
<option value="1"> Sama pentingnya </option>
<option value="2"> Pertengahan sedikit</option>
<option value="3"> Sedikit lebih penting</option>
<option value="4"> Pertengahan lebih</option>
<option value="5"> Lebih penting </option>
<option value="6"> Pertengahan sangat</option>
<option value="7"> Sangat penting </option>
<option value="8"> Pertengahan mutlak</option>
<option value="9"> Mutlak lebih penting </option>
<option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
<option value="0.5"> Pertengahan sedikit</option>
<option value="0.33"> Sedikit lebih penting</option>
<option value="0.25"> Pertengahan lebih</option>
<option value="0.20"> Lebih penting </option>
<option value="14"> Pertengahan sangat</option>
```

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        <option value="0.17"> Sangat penting </option>
        <option value="0.14"> Pertengahan multak</option>
        <option value="0.11"> Mutlak lebih penting </option>
    </select>
</td> </tr>

<tr><td>10</td>
<td>Green Hill (GH) dengan Taman Anggrek (TA) </td>
<td><select name="kedekatan[GH-TA]">
    <option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
    <option value="1"> Sama pentingnya </option>
    <option value="2"> Pertengahan sedikit</option>
    <option value="3"> Sedikit lebih penting</option>
    <option value="4"> Pertengahan lebih</option>
    <option value="5"> Lebih penting </option>
    <option value="6"> Pertengahan sangat</option>
    <option value="7"> Sangat penting </option>
    <option value="8"> Pertengahan mutlak</option>
    <option value="9"> Mutlak lebih penting </option>
    <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
    <option value="0.5"> Pertengahan sedikit</option>
    <option value="0.33"> Sedikit lebih penting</option>
    <option value="0.25"> Pertengahan lebih</option>
    <option value="0.20"> Lebih penting </option>
    <option value="14"> Pertengahan sangat</option>
    <option value="0.17"> Sangat penting </option>
    <option value="0.14"> Pertengahan multak</option>
    <option value="0.11"> Mutlak lebih penting </option>
</select>
</td> </tr>

<tr bgcolor='#ACC8AD'><td>11</td>
<td>Green Hill (GH) dengan Platinum Regency (PR) </td>
<td><select name="kedekatan[GH-PR]">
    <option disabled="disabled" value="" selected> - Pilih

```

Perbandingan - </option>

```
<option value="1"> Sama pentingnya </option>
<option value="2"> Pertengahan sedikit</option>
<option value="3"> Sedikit lebih penting</option>
<option value="4"> Pertengahan lebih</option>
<option value="5"> Lebih penting </option>
<option value="6"> Pertengahan sangat</option>
<option value="7"> Sangat penting </option>
<option value="8"> Pertengahan mutlak</option>
<option value="9"> Mutlak lebih penting </option>
<option disabled="disabled" value="" selected>- Pilih
```

Kebalikan -</option>

```
<option value="0.5"> Pertengahan sedikit</option>
<option value="0.33"> Sedikit lebih penting</option>
<option value="0.25"> Pertengahan lebih</option>
<option value="0.20"> Lebih penting </option>
<option value="14"> Pertengahan sangat</option>
<option value="0.17"> Sangat penting </option>
<option value="0.14"> Pertengahan mutlak</option>
<option value="0.11"> Mutlak lebih penting </option>
</select>
</td> </tr>
```

```
<tr><td>12</td>
```

<td> Green Hill (GH) dengan Bukit Emas Dahan Rejo (BED) </td>

```
<td><select name="kedekatan[GH-BED]">
<option disabled="disabled" value="" selected> - Pilih
```

Perbandingan - </option>

```
<option value="1"> Sama pentingnya </option>
<option value="2"> Pertengahan sedikit</option>
<option value="3"> Sedikit lebih penting</option>
<option value="4"> Pertengahan lebih</option>
<option value="5"> Lebih penting </option>
<option value="6"> Pertengahan sangat</option>
<option value="7"> Sangat penting </option>
<option value="8"> Pertengahan mutlak</option>
<option value="9"> Mutlak lebih penting </option>
```

```

        <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
        <option value="0.5"> Pertengahan sedikit</option>
        <option value="0.33"> Sedikit lebih penting</option>
        <option value="0.25"> Pertengahan lebih</option>
        <option value="0.20"> Lebih penting </option>
        <option value="14"> Pertengahan sangat</option>
        <option value="0.17"> Sangat penting </option>
        <option value="0.14"> Pertengahan multak</option>
        <option value="0.11"> Mutlak lebih penting </option>
</select>
</td></tr>

```

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<tr bgcolor='#ACC8AD'><td>13</td>
<td> Green Hill (GH) dengan De' Royal Kedayang </td>
        <td><select name="kedekatan[GH-DK]">
                <option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
                <option value="1"> Sama pentingnya </option>
                <option value="2"> Pertengahan sedikit</option>
                <option value="3"> Sedikit lebih penting</option>
                <option value="4"> Pertengahan lebih</option>
                <option value="5"> Lebih penting </option>
                <option value="6"> Pertengahan sangat</option>
                <option value="7"> Sangat penting </option>
                <option value="8"> Pertengahan mutlak</option>
                <option value="9"> Mutlak lebih penting </option>
                <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
                <option value="0.5"> Pertengahan sedikit</option>
                <option value="0.33"> Sedikit lebih penting</option>
                <option value="0.25"> Pertengahan lebih</option>
                <option value="0.20"> Lebih penting </option>
                <option value="14"> Pertengahan sangat</option>
                <option value="0.17"> Sangat penting </option>
                <option value="0.14"> Pertengahan multak</option>
                <option value="0.11"> Mutlak lebih penting </option>

```

```

        </select>
    </td></tr>

    <tr><td>14</td>
<td> Alam Bukit Raya (ABR) dengan Pondok Permata Suci (PPS)</td>
    <td> <select name="kedekatan[ABR-PPS]">
        <option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
        <option value="1"> Sama pentingnya </option>
        <option value="2"> Pertengahan sedikit</option>
        <option value="3"> Sedikit lebih penting</option>
        <option value="4"> Pertengahan lebih</option>
        <option value="5"> Lebih penting </option>
        <option value="6"> Pertengahan sangat</option>
        <option value="7"> Sangat penting </option>
        <option value="8"> Pertengahan mutlak</option>
        <option value="9"> Mutlak lebih penting </option>
        <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
        <option value="0.5"> Pertengahan sedikit</option>
        <option value="0.33"> Sedikit lebih penting</option>
        <option value="0.25"> Pertengahan lebih</option>
        <option value="0.20"> Lebih penting </option>
        <option value="14"> Pertengahan sangat</option>
        <option value="0.17"> Sangat penting </option>
        <option value="0.14"> Pertengahan multak</option>
        <option value="0.11"> Mutlak lebih penting </option>
    </select>
    </td></tr>

<tr bgcolor='#ACC8AD'><td>15</td>
<td> Alam Bukit Raya (ABR) dengan Taman Anggrek (TA) </td>
<td><select name="kedekatan[ABR-TA]">
    <option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
        <option value="1"> Sama pentingnya </option>
        <option value="2"> Pertengahan sedikit</option>

```



```

        <option value="3"> Sedikit lebih penting</option>
        <option value="4"> Pertengahan lebih</option>
        <option value="5"> Lebih penting </option>
        <option value="6"> Pertengahan sangat</option>
        <option value="7"> Sangat penting </option>
        <option value="8"> Pertengahan mutlak</option>
        <option value="9"> Mutlak lebih penting </option>
        <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
        <option value="0.5"> Pertengahan sedikit</option>
        <option value="0.33"> Sedikit lebih penting</option>
        <option value="0.25"> Pertengahan lebih</option>
        <option value="0.20"> Lebih penting </option>
        <option value="14"> Pertengahan sangat</option>
        <option value="0.17"> Sangat penting </option>
        <option value="0.14"> Pertengahan multak</option>
        <option value="0.11"> Mutlak lebih penting </option>
    </select>
</td></tr>

<tr><td>16</td>
<td>Alam Bukit Raya (ABR) dengan Platinum Regency (PR) </td>
    <td><select name="kedekatan[ABR-PR]">
        <option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
        <option value="1"> Sama pentingnya </option>
        <option value="2"> Pertengahan sedikit</option>
        <option value="3"> Sedikit lebih penting</option>
        <option value="4"> Pertengahan lebih</option>
        <option value="5"> Lebih penting </option>
        <option value="6"> Pertengahan sangat</option>
        <option value="7"> Sangat penting </option>
        <option value="8"> Pertengahan mutlak</option>
        <option value="9"> Mutlak lebih penting </option>
        <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
        <option value="0.5"> Pertengahan sedikit</option>

```

```

<option value="0.33"> Sedikit lebih penting</option>
<option value="0.25"> Pertengahan lebih</option>
<option value="0.20"> Lebih penting </option>
<option value="14"> Pertengahan sangat</option>
<option value="0.17"> Sangat penting </option>
<option value="0.14"> Pertengahan mutlak</option>
<option value="0.11"> Mutlak lebih penting </option>
</select>
</td></tr>

<tr bgcolor='#ACC8AD'><td>17</td>
<td>Alam Bukit Raya (ABR) dengan Bukit Emas Dahan Rejo (BED) </td>
<td><select name="kedekatan[ABR-BED]">
<option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
<option value="1"> Sama pentingnya </option>
<option value="2"> Pertengahan sedikit</option>
<option value="3"> Sedikit lebih penting</option>
<option value="4"> Pertengahan lebih</option>
<option value="5"> Lebih penting </option>
<option value="6"> Pertengahan sangat</option>
<option value="7"> Sangat penting </option>
<option value="8"> Pertengahan mutlak</option>
<option value="9"> Mutlak lebih penting </option>
<option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
<option value="0.5"> Pertengahan sedikit</option>
<option value="0.33"> Sedikit lebih penting</option>
<option value="0.25"> Pertengahan lebih</option>
<option value="0.20"> Lebih penting </option>
<option value="14"> Pertengahan sangat</option>
<option value="0.17"> Sangat penting </option>
<option value="0.14"> Pertengahan mutlak</option>
<option value="0.11"> Mutlak lebih penting </option>
</select>
</td></tr>

```

```

<tr><td>18</td>
<td>Alam Bukit Raya (ABR) dengan De' Royal Kedanyang </td>
<td><select name="kedekatan[ABR-DK]">
<option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
<option value="1"> Sama pentingnya </option>
<option value="2"> Pertengahan sedikit</option>
<option value="3"> Sedikit lebih penting</option>
<option value="4"> Pertengahan lebih</option>
<option value="5"> Lebih penting </option>
<option value="6"> Pertengahan sangat</option>
<option value="7"> Sangat penting </option>
<option value="8"> Pertengahan mutlak</option>
<option value="9"> Mutlak lebih penting </option>
<option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
<option value="0.5"> Pertengahan sedikit</option>
<option value="0.33"> Sedikit lebih penting</option>
<option value="0.25"> Pertengahan lebih</option>
<option value="0.20"> Lebih penting </option>
<option value="14"> Pertengahan sangat</option>
<option value="0.17"> Sangat penting </option>
<option value="0.14"> Pertengahan multak</option>
<option value="0.11"> Mutlak lebih penting </option>
</select>
</td></tr>

```

```

<tr bgcolor='#ACC8AD'><td>19</td>
<td>Pondok Permata Suci (PPS) dengan Taman Anggrek (TA) </td>
<td><select name="kedekatan[PPS-TA]">
<option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
<option value="1"> Sama pentingnya </option>
<option value="2"> Pertengahan sedikit</option>
<option value="3"> Sedikit lebih penting</option>
<option value="4"> Pertengahan lebih</option>
<option value="5"> Lebih penting </option>

```

```

        <option value="6"> Pertengahan sangat</option>
        <option value="7"> Sangat penting </option>
        <option value="8"> Pertengahan mutlak</option>
        <option value="9"> Mutlak lebih penting </option>
        <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
        <option value="0.5"> Pertengahan sedikit</option>
        <option value="0.33"> Sedikit lebih penting</option>
        <option value="0.25"> Pertengahan lebih</option>
        <option value="0.20"> Lebih penting </option>
        <option value="14"> Pertengahan sangat</option>
        <option value="0.17"> Sangat penting </option>
        <option value="0.14"> Pertengahan mutlak</option>
        <option value="0.11"> Mutlak lebih penting </option>
</select>
</td></tr>

<tr><td>20</td>
<td>Pondok Permata Suci (PPS) dengan Platinum Regency (PR)</td>
        <td><select name="kedekatan[PPS-PR]">
                <option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
                <option value="1"> Sama pentingnya </option>
                <option value="2"> Pertengahan sedikit</option>
                <option value="3"> Sedikit lebih penting</option>
                <option value="4"> Pertengahan lebih</option>
                <option value="5"> Lebih penting </option>
                <option value="6"> Pertengahan sangat</option>
                <option value="7"> Sangat penting </option>
                <option value="8"> Pertengahan mutlak</option>
                <option value="9"> Mutlak lebih penting </option>
                <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
                <option value="0.5"> Pertengahan sedikit</option>
                <option value="0.33"> Sedikit lebih penting</option>
                <option value="0.25"> Pertengahan lebih</option>
                <option value="0.20"> Lebih penting </option>

```

```

<option value="14"> Pertengahan sangat</option>
<option value="0.17"> Sangat penting </option>
<option value="0.14"> Pertengahan multak</option>
<option value="0.11"> Mutlak lebih penting </option>
</select>
</td></tr>

<tr bgcolor="#ACC8AD"><td>21</td>
<td>Pondok Permata Suci (PPS) dengan Bukit Emas Dahan Rejo (BED)
</td>
<td><select name="kedekatan[PPS-BED]">
<option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
<option value="1"> Sama pentingnya </option>
<option value="2"> Pertengahan sedikit</option>
<option value="3"> Sedikit lebih penting</option>
<option value="4"> Pertengahan lebih</option>
<option value="5"> Lebih penting </option>
<option value="6"> Pertengahan sangat</option>
<option value="7"> Sangat penting </option>
<option value="8"> Pertengahan mutlak</option>
<option value="9"> Mutlak lebih penting </option>
<option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
<option value="0.5"> Pertengahan sedikit</option>
<option value="0.33"> Sedikit lebih penting</option>
<option value="0.25"> Pertengahan lebih</option>
<option value="0.20"> Lebih penting </option>
<option value="14"> Pertengahan sangat</option>
<option value="0.17"> Sangat penting </option>
<option value="0.14"> Pertengahan multak</option>
<option value="0.11"> Mutlak lebih penting </option>
</select>
</td> </tr>

<tr><td>22</td>
<td>Pondok Permata Suci (PPS) dengan De' Royal Kedanyang </td>

```

```
<td><select name="kedekatan[PPS-DK]">
    <option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
    <option value="1"> Sama pentingnya </option>
    <option value="2"> Pertengahan sedikit</option>
    <option value="3"> Sedikit lebih penting</option>
    <option value="4"> Pertengahan lebih</option>
    <option value="5"> Lebih penting </option>
    <option value="6"> Pertengahan sangat</option>
    <option value="7"> Sangat penting </option>
    <option value="8"> Pertengahan mutlak</option>
    <option value="9"> Mutlak lebih penting </option>
    <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
    <option value="0.5"> Pertengahan sedikit</option>
    <option value="0.33"> Sedikit lebih penting</option>
    <option value="0.25"> Pertengahan lebih</option>
    <option value="0.20"> Lebih penting </option>
    <option value="14"> Pertengahan sangat</option>
    <option value="0.17"> Sangat penting </option>
    <option value="0.14"> Pertengahan multak</option>
    <option value="0.11"> Mutlak lebih penting </option>
</select>
</td></tr>
```

```
<tr bgcolor='#ACC8AD'><td>23</td>
<td>Taman Anggrek (TA) dengan Platinum Regency (PR)
</td>
```

```
<td><select name="kedekatan[TA-PR]">
    <option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
    <option value="1"> Sama pentingnya </option>
    <option value="2"> Pertengahan sedikit</option>
    <option value="3"> Sedikit lebih penting</option>
    <option value="4"> Pertengahan lebih</option>
    <option value="5"> Lebih penting </option>
    <option value="6"> Pertengahan sangat</option>
```

```

        <option value="7"> Sangat penting </option>
        <option value="8"> Pertengahan mutlak</option>
        <option value="9"> Mutlak lebih penting </option>
        <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
        <option value="0.5"> Pertengahan sedikit</option>
        <option value="0.33"> Sedikit lebih penting</option>
        <option value="0.25"> Pertengahan lebih</option>
        <option value="0.20"> Lebih penting </option>
        <option value="14"> Pertengahan sangat</option>
        <option value="0.17"> Sangat penting </option>
        <option value="0.14"> Pertengahan multak</option>
        <option value="0.11"> Mutlak lebih penting </option>
</select>
</td></tr>

<tr><td>24</td>
<td>Taman Anggrek (TA) dengan Bukit Emas Dahan Rejo
(BED) </td>
<td><select name="kedekatan[TA-BED]">
<option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
<option value="1"> Sama pentingnya </option>
<option value="2"> Pertengahan sedikit</option>
<option value="3"> Sedikit lebih penting</option>
<option value="4"> Pertengahan lebih</option>
<option value="5"> Lebih penting </option>
<option value="6"> Pertengahan sangat</option>
<option value="7"> Sangat penting </option>
<option value="8"> Pertengahan mutlak</option>
<option value="9"> Mutlak lebih penting </option>
<option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
<option value="0.5"> Pertengahan sedikit</option>
<option value="0.33"> Sedikit lebih penting</option>
<option value="0.25"> Pertengahan lebih</option>
<option value="0.20"> Lebih penting </option>

```

```

<option value="14"> Pertengahan sangat</option>
<option value="0.17"> Sangat penting </option>
<option value="0.14"> Pertengahan multak</option>
<option value="0.11"> Mutlak lebih penting </option>
</select>
</td></tr>

<tr bgcolor='#ACC8AD'><td>25</td>
<td>Taman Anggrek (TA) dengan De' Royal Kedanyang</td>
<td><select name="kedekatan[TA-DK]">
<option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
<option value="1"> Sama pentingnya </option>
<option value="2"> Pertengahan sedikit</option>
<option value="3"> Sedikit lebih penting</option>
<option value="4"> Pertengahan lebih</option>
<option value="5"> Lebih penting </option>
<option value="6"> Pertengahan sangat</option>
<option value="7"> Sangat penting </option>
<option value="8"> Pertengahan mutlak</option>
<option value="9"> Mutlak lebih penting </option>
<option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
<option value="0.5"> Pertengahan sedikit</option>
<option value="0.33"> Sedikit lebih penting</option>
<option value="0.25"> Pertengahan lebih</option>
<option value="0.20"> Lebih penting </option>
<option value="14"> Pertengahan sangat</option>
<option value="0.17"> Sangat penting </option>
<option value="0.14"> Pertengahan multak</option>
<option value="0.11"> Mutlak lebih penting </option>
</select>
</td></tr>
<tr><td>26</td>
<td> Platinum Regency (PR) dengan Bukit Emas Dahan
Rejo (BED)</td>
<td><select name="kedekatan[PR-BED]">

```



```

        <option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
        <option value="1"> Sama pentingnya </option>
        <option value="2"> Pertengahan sedikit</option>
        <option value="3"> Sedikit lebih penting</option>
        <option value="4"> Pertengahan lebih</option>
        <option value="5"> Lebih penting </option>
        <option value="6"> Pertengahan sangat</option>
        <option value="7"> Sangat penting </option>
        <option value="8"> Pertengahan mutlak</option>
        <option value="9"> Mutlak lebih penting </option>
        <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
        <option value="0.5"> Pertengahan sedikit</option>
        <option value="0.33"> Sedikit lebih penting</option>
        <option value="0.25"> Pertengahan lebih</option>
        <option value="0.20"> Lebih penting </option>
        <option value="14"> Pertengahan sangat</option>
        <option value="0.17"> Sangat penting </option>
        <option value="0.14"> Pertengahan mutlak</option>
        <option value="0.11"> Mutlak lebih penting </option>
</select>
</td></tr>

<tr bgcolor='#ACC8AD'><td>27</td>
<td> Platinum Regency (PR) dengan De' Royal Kedayang </td>
<td><select name="kedekatan[PR-DK]">
        <option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
        <option value="1"> Sama pentingnya </option>
        <option value="2"> Pertengahan sedikit</option>
        <option value="3"> Sedikit lebih penting</option>
        <option value="4"> Pertengahan lebih</option>
        <option value="5"> Lebih penting </option>
        <option value="6"> Pertengahan sangat</option>
        <option value="7"> Sangat penting </option>
        <option value="8"> Pertengahan mutlak</option>

```

```

        <option value="9"> Mutlak lebih penting </option>
        <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
        <option value="0.5"> Pertengahan sedikit</option>
        <option value="0.33"> Sedikit lebih penting</option>
        <option value="0.25"> Pertengahan lebih</option>
        <option value="0.20"> Lebih penting </option>
        <option value="14"> Pertengahan sangat</option>
        <option value="0.17"> Sangat penting </option>
        <option value="0.14"> Pertengahan mutlak</option>
        <option value="0.11"> Mutlak lebih penting </option>
        </select>
    </td> </tr>

    <tr><td>28</td>
    <td> Bukit Emas Dahan Rejo (BED) dengan De' Royal
</td>

    <td><select name="kedekatan[BED-DK]">
        <option disabled="disabled" value="" selected> - Pilih
Perbandingan - </option>
        <option value="1"> Sama pentingnya </option>
        <option value="2"> Pertengahan sedikit</option>
        <option value="3"> Sedikit lebih penting</option>
        <option value="4"> Pertengahan lebih</option>
        <option value="5"> Lebih penting </option>
        <option value="6"> Pertengahan sangat</option>
        <option value="7"> Sangat penting </option>
        <option value="8"> Pertengahan mutlak</option>
        <option value="9"> Mutlak lebih penting </option>
        <option disabled="disabled" value="" selected>- Pilih
Kebalikan -</option>
        <option value="0.5"> Pertengahan sedikit</option>
        <option value="0.33"> Sedikit lebih penting</option>
        <option value="0.25"> Pertengahan lebih</option>
        <option value="0.20"> Lebih penting </option>
        <option value="14"> Pertengahan sangat</option>
        <option value="0.17"> Sangat penting </option>

```

```

        <option value="0.14"> Pertengahan multak</option>
        <option value="0.11"> Mutlak lebih penting </option>
    </select>
</td> </tr>
</TABLE>

```

➤ perumahan.php

```

<html>
<head><title></title>
    <style type="text/css">
        .gambar {
            float: left;
            margin-top: 0px;
            margin-right: 10px;
            margin-bottom: 10px;
            margin-left: 0px;
        }
        #isi p {
            margin-top: 0px;
            text-align: justify;
            line-height: 20px;
        }
    </style>
</head>
<body>
</body>
</html>

<?php
include"koneksi.php";
$hasil=mysql_query("SELECT * FROM new_hasil2");
$no = 1;
while($row=mysql_fetch_array($hasil)){

    echo "<p> <b> $no. Perumahan ".$row['nama_perumahan'].<b>
</b></p>
    <img src='admin/$row[gambar_1]' alt='' id='gambar_1' class

```

```

='gambar' name='gambar_1' width='270' height='300' />
    <p><td>Pengembang ".$row['nama_pengembang']."</p>
    <p><td>Tipe Perumahan ".$row['type_rumah']."</p>
    <p><td>Keterangan ".$row['keterangan']."</p>
    <p><td>Persyaratan ".$row['persyaratan']."</p>
    <p><td>Marketing ".$row['marketing']."</p>
    <hr>;
    $no++;
}
?>

```

➤ perhitungan_ahp_balik.php

```

<?php
//fuzzy dengan ahp

class ahp{
    private $perumahan =
array("GKB", "GH", "ABR", "PPS", "TA", "PR", "BED", "DK");
    private $konstanta =
array("1"=>array("asli"=>array("1"=>"1", "m"=>"1", "u"=>"1"), "keba
likan"=>array("1"=>"1", "m"=>"1", "u"=>"1")),
        "2"=>array("asli"=>array("1"=>"0.5", "m"=>"1", "u"=>"1.5"), "ke
balikan"=>array("1"=>"0.67", "m"=>"1", "u"=>"2")),
        "3"=>array("asli"=>array("1"=>"1", "m"=>"1.5", "u"=>"2"), "keba
likan"=>array("1"=>"0.5", "m"=>"0.67", "u"=>"1")),
        "4"=>array("asli"=>array("1"=>"1.5", "m"=>"2", "u"=>"2.5"), "ke
balikan"=>array("1"=>"0.4", "m"=>"0.5", "u"=>"0.67")),
        "5"=>array("asli"=>array("1"=>"2", "m"=>"2.5", "u"=>"3"), "keba
likan"=>array("1"=>"0.33", "m"=>"0.4", "u"=>"0.5")),
        "6"=>array("asli"=>array("1"=>"2.5", "m"=>"3", "u"=>"3.5"), "ke
balikan"=>array("1"=>"0.29", "m"=>"0.33", "u"=>"0.4")),

```

```

    "7"=>array("asli"=>array("l"=>"3", "m"=>"3.5", "u"=>"4"), "keba
likan"=>array("l"=>"0.25", "m"=>"0.29", "u"=>"0.33")),

    "8"=>array("asli"=>array("l"=>"3.5", "m"=>"4", "u"=>"4.5"), "ke
balikan"=>array("l"=>"0.22", "m"=>"0.25", "u"=>"0.29")),

    "9"=>array("asli"=>array("l"=>"4", "m"=>"4.5", "u"=>"4.5"), "ke
balikan"=>array("l"=>"0.22", "m"=>"0.22", "u"=>"0.25")),

        //balik

    "0.5"=>array("asli"=>array("l"=>"0.67", "m"=>"1", "u"=>"2"), "k
ebalikan"=>array("l"=>"0.5", "m"=>"1", "u"=>"1.5")),

    "0.33"=>array("asli"=>array("l"=>"0.5", "m"=>"0.67", "u"=>"1")
, "kebalikan"=>array("l"=>"1", "m"=>"1.5", "u"=>"2")),

    "0.25"=>array("asli"=>array("l"=>"0.4", "m"=>"0.5", "u"=>"0.67
"), "kebalikan"=>array("l"=>"1.5", "m"=>"2", "u"=>"2.5")),

    "0.20"=>array("asli"=>array("l"=>"0.33", "m"=>"0.4", "u"=>"0.5
"), "kebalikan"=>array("l"=>"2", "m"=>"2.5", "u"=>"3")),

    "0.17"=>array("asli"=>array("l"=>"0.29", "m"=>"0.33", "u"=>"0.
4"), "kebalikan"=>array("l"=>"2.5", "m"=>"3", "u"=>"3.5")),

    "0.14"=>array("asli"=>array("l"=>"0.25", "m"=>"0.29", "u"=>"0.
33"), "kebalikan"=>array("l"=>"3", "m"=>"3.5", "u"=>"4")),

    "0.13"=>array("asli"=>array("l"=>"0.22", "m"=>"0.25", "u"=>"0.
29"), "kebalikan"=>array("l"=>"3.5", "m"=>"4", "u"=>"4.5")),

    "0.11"=>array("asli"=>array("l"=>"0.22", "m"=>"0.22", "u"=>"0.
25"), "kebalikan"=>array("l"=>"4", "m"=>"4.5", "u"=>"4.5"))
);

private $balikan_ci =
array("1"=>"1", "2"=>"0.5", "3"=>"0.33", "4"=>"0.25", "5"=>"0.20", "6"=
>"0.17", "7"=>"0.14", "8"=>"0.13", "9"=>"0.11",

```

```
"0.5"=>"2","0.33"=>"3","0.25"=>"4","0.20"=>"5","0.17"=>"6","  
0.14"=>"7","0.13"=>"8","0.11"=>"9");
```

```
public $display_perhitungan = false;  
public $presentasi = "";  
public $vektor_normal_semua="";  
public $matriks_hasil = "";  
var $nilai_user="";
```

```
function  
__construct($nilai_user,$presentasi,$display_perhitungan = false){  
    $this->display_perhitungan = $display_perhitungan;  
    // inputkan nilai awal  
    $this->nilai_user = $nilai_user;  
    $this->presentasi = $presentasi;  
    $this->proses();  
}
```

```
function array_solusi_awal($nilai_user_kriteria){  
    $arr_solusi = array();
```

```
// membangun solusi awal berdasarkan inputan user  
    $perum_temp = $this->perumahan;  
    foreach($this->perumahan as $perum){  
        foreach($perum_temp as $t_perum){  
            // buat index dengan susunan seperti GKB-GH  
            $index_temp = $perum."-".$t_perum;  
            $index_balik = $t_perum."-".$perum;  
            if($perum == $t_perum){  
                $arr_solusi[$perum][$t_perum] = $this->nilai_asli(1);  
            }  
            else  
if(isset($nilai_user_kriteria[$index_temp])){  
                $arr_solusi[$perum][$t_perum] = $this->nilai_asli($nilai_user_kriteria[$index_temp]);  
            }  
        }  
    }  
}
```

```

        else{
            $arr_solusi[$perum][$t_perum] = $this->
nilai_kebalikan($nilai_user_kriteria[$index_balik]);
        }
    }

    return $arr_solusi;
}

function tabel_ci($nilai_user_kriteria){
    $arr_solusi = array();
    // bangun solusi awal berdasarkan inputan user
    $perum_temp = $this->perumahan;
    foreach($this->perumahan as $perum){
        foreach($perum_temp as $t_perum){
            // buat index dengan susunan seperti GKB-GH
            $index_temp = $perum."-".$t_perum;
            $index_balik = $t_perum."-".$perum;
            if($perum == $t_perum){
                $arr_solusi[$perum][$t_perum] = 1;
            }
            else
            if(isset($nilai_user_kriteria[$index_temp])){
                $arr_solusi[$perum][$t_perum] =
$nilai_user_kriteria[$index_temp];
            }
            else{
                $arr_solusi[$perum][$t_perum] = $this->
balikan_ci($nilai_user_kriteria[$index_balik]);
            }
        }
    }

    return $arr_solusi;
}

```

```

function normalisasi_tabel_ci($tabel_ci){
    $perkolom = array();
    $perbaris = array();
    $total_normalisasi = array();
    $t_hasil = array();
    $tabel_ci_normal = array();
    $batas_konsisten = 0.1;

    foreach($tabel_ci as $perum => $nilai_arr){
        foreach($nilai_arr as $t_perum => $nilai){
            $perkolom[$t_perum][] = $nilai;
        }
    }

    // hitung normalisasinya
    foreach($tabel_ci as $perum => $nilai_arr){
        $t_perbaris = 0;
        foreach($nilai_arr as $t_perum => $nilai){
            $t_hasil[$perum][$t_perum] = $nilai /
array_sum($perkolom[$t_perum]);
            $t_perbaris += $nilai /
array_sum($perkolom[$t_perum]);
        }

        $perbaris[$perum] = $t_perbaris;
    }

    $tabel_ci_normal = $t_hasil;
    // normalisasi jumlah perbaris saja
    $perbaris = $this->normalisasi_vektor($perbaris,false);
    // hitung nilai max
    $n = 8; // sudah ditetapkan
    $ri = 1.41; //sudah diteteapkan
    $n_max = 0;

    foreach($perbaris as $indexnya => $nilai){
        $n_max += ($nilai * array_sum($perkolom[$indexnya]));
        //echo "$n_max <br>";
    }
}

```



```

//total lamda
$ci = ($n_max+ - $n)/($n - 1);
$scr = $ci / $ri;

// tampilkan tabel ci
echo $this->susun_tabel($tabel_ci,"tabel ci");
echo $this->susun_tabel($tabel_ci_normal,"tabel ci dengan nilai
sudah normal");

echo "nilai lamda maksimal = ".$n_max."<br />";
echo "nilai CI = ".$ci."<br />";
echo "nilai CR = ".$scr."<br />";
if($scr <= $batas_konsisten){
echo "<div style='color:green;text-
weight:bolder'>Konsisten</div>";
}
else {
echo "<div style='color:red;text-
weight:bolder'>Tidak konsisten</div>";
}
}

function cari_sintesis($arr_solusi_kriteria){
$tabel_hitung = "";
$jml_semua_l = $jml_semua_m = $jml_semua_u = 0;
$jml_data = 0;
$tabel_hitung .= "<table border='1'>";
$tabel_hitung .= "<tr>";
$tabel_hitung .= "<td></td>";
foreach($arr_solusi_kriteria as $indexnya => $nilai_arr){
$tabel_hitung .= "<td colspan='3'>".$indexnya."</td>";
}
$tabel_hitung .= "<td colspan='3'>Jumlah Baris</td>";
$tabel_hitung .= "</tr>";
$tabel_hitung .= "<tr>";
$tabel_hitung .= "<td></td>";

```

```

        foreach($arr_solusi_kriteria as $indexnya){
            $jml_data += 3;
            $tabel_hitung .= "<td>l</td>";
            $tabel_hitung .= "<td>m</td>";
            $tabel_hitung .= "<td>u</td>";
        }

        $tabel_hitung .= "<td >l</td>";
        $tabel_hitung .= "<td>m</td>";
        $tabel_hitung .= "<td>u</td>";

        $tabel_hitung .= "</tr>";
        foreach($arr_solusi_kriteria as $indexnya => $nilai_arr){
            $jml_perbaris_l = $jml_perbaris_m = $jml_perbaris_u = 0;
            $tabel_hitung .= "<tr>";
            $tabel_hitung .= "<td>".$indexnya."</td>";
            foreach($nilai_arr as $nilai){
                $tabel_hitung .= "<td>".$nilai["l"]."</td>";
                $tabel_hitung .= "<td>".$nilai["m"]."</td>";
                $tabel_hitung .= "<td>".$nilai["u"]."</td>";
                $jml_perbaris_l += $nilai["l"];
                $jml_perbaris_m += $nilai["m"];
                $jml_perbaris_u += $nilai["u"];
            }
            $tabel_hitung .= "<td>".$jml_perbaris_l."</td>";
            $tabel_hitung .= "<td>".$jml_perbaris_m."</td>";
            $tabel_hitung .= "<td>".$jml_perbaris_u."</td>";
            $jml_semua_l += $jml_perbaris_l;
            $jml_semua_m += $jml_perbaris_m;
            $jml_semua_u += $jml_perbaris_u;

            // simpan total perbaris dalam array
            $jml_perbaris_arr[$indexnya]=
            array("l"=>$jml_perbaris_l,"m"=>$jml_perbaris_m,"u"=>$jml_perbaris
            _u);

            $tabel_hitung .= "</tr>";
        }

```

```

        $jml_data += 1;    // karena ada satu kolom kosong
didepan
        $tabel_hitung .= "<tr><td
colspan='". $jml_data. "'>Total semua</td>";
        $tabel_hitung .= "<td>". $jml_semua_l. "</td>";
        $tabel_hitung .= "<td>". $jml_semua_m. "</td>";
        $tabel_hitung .= "<td>". $jml_semua_u. "</td>";

// simpan semua totalnya dalam array
        $total_semua_nilai =
array("l"=>$jml_semua_l, "m"=>$jml_semua_m, "u"=>$jml_semua_u);
        $tabel_hitung .= "</tr>";
        $tabel_hitung .= "</table> </br>";

// buat perhitungan untuk sintesis
        $sintesis = array();
        foreach($jml_perbaris_arr as $indexnya => $nilai_arr){
            $sintesis[$indexnya] =
array("l"=>$nilai_arr["l"]/$total_semua_nilai["u"], "m"=>$nilai_arr
["m"]/$total_semua_nilai["m"], "u"=>$nilai_arr["u"]/$total_semua_ni
lai["l"]);
        }
// display sintesisnya
        $tabel_hitung .= "<table border='1'>";
        $tabel_hitung .= "<b>Nilai Sintesis</b>";
        $tabel_hitung .= "<tr>";
        $tabel_hitung .=
"<td></td><td>l</td><td>m</td><td>u</td>";
        $tabel_hitung .= "</tr>";
        foreach($sintesis as $indexnya => $nilainya){
            $tabel_hitung .= "<tr>";
            $tabel_hitung .= "<td>". $indexnya. "</td>";
            foreach($nilainya as $nilai){
                $tabel_hitung .= "<td>". $nilai. "</td>";
            }
            $tabel_hitung .= "</tr>";
        }

```

```

$tabel_hitung .= "</table> </br>";
if($this->display_perhitungan){
    echo $tabel_hitung;
}
return $sintesis;
}

function cari_vektor($sintesis_kriteria){
    // bandingkan sintesis tiap perumahan
    $t_sintesis = $sintesis_kriteria;
    $tabel_hitung = "";
    $arr_hasil = array();
    foreach($t_sintesis as $index_t => $nilai_t){
        $t_hasil = array();
        foreach($sintesis_kriteria as $index => $nilai){
            if($index == $index_t) continue;
            array_push($t_hasil,$this-
>bandingkan_nilai_vektor($nilai_t,$nilai));
        }
        // cari nilai yang terkecil dari array $t_hasil dan masukkan
ke dalam array $arr_hasil
        $arr_hasil[$index_t] = min($t_hasil);
    }

    // tampilkan dalam bentuk tabel
    $tabel_hitung .= "<table border='1'>";
    $tabel_hitung .= "<b> Hasil perbandingan</b>";
    foreach($arr_hasil as $indexnya =>$nilai){
        $tabel_hitung .=
"<tr><td>".$indexnya."</td><td>".$nilai."</td></tr>";
    }
    $tabel_hitung .= "</table></br>";
    if($this->display_perhitungan){
        echo $tabel_hitung;
    }
    return $arr_hasil;
}

```

```

function normalisasi_vektor($arr_hasil_kriteria,$stampil =
true){
    $t_vektor = array();
    $tabel_hitung = "";
    foreach($arr_hasil_kriteria as $index => $vektor){
        $t_vektor[$index] = $vektor /
array_sum($arr_hasil_kriteria);
    }

    //untuk menampilkan tabel hasil akhir pada sistem
    $this->vektor_normal = $t_vektor;

    // tampilkan dalam bentuk tabel
    $tabel_hitung .= "<table border='1'>";
    $tabel_hitung .= "<b> Hasil normalisasi</b>";
    foreach($t_vektor as $indexnya =>$nilai){
        $tabel_hitung .=
"<tr><td>".$indexnya."</td><td>".$nilai."</td></tr>";
    }
    $tabel_hitung .= "</table> </br>";
    if($this->display_perhitungan && $stampil == true){
        echo $tabel_hitung;
    }
    return $t_vektor;
}

function proses(){
    echo "<h3><center style='color:blue'> Hasil Proses
perhitungan </center></h3>";
    echo "<center style='color:#8A8A8A'>silahkan klik
untuk melihat hasilnya </center> </br>";
    $vektor_normal_semua = array();
    foreach($this->nilai_user as $kriteria => $nilai_user){
        //membuat kriteria
        echo"<b>";
        echo "<div onclick='show_hide(this) '

```

```

style='cursor:pointer'>".$kriteria."</div>";
        echo "<div id='".$kriteria."' class='det_hitung'
style='border:1px solid
gray;overflow:auto;width:700px;display:none'> <b> Perhitungan
untuk kriteria ".$kriteria."</b>";

        $solusi_kriteria = $this->array_solusi_awal($nilai_user);
        $sintesis_kriteria = $this->cari_sintesis($solusi_kriteria);
        $vektor_perum = $this->cari_vektor($sintesis_kriteria);
        $vektor_normal = $this->normalisasi_vektor($vektor_perum);
        // hitung ci dsb
        $tabel_ci = $this->tabel_ci($nilai_user);
        $this->normalisasi_tabel_ci($tabel_ci);
        $vektor_normal_semua[$kriteria] = $vektor_normal;
        echo "</div>";
        echo "<hr />";
    }

    // tambahkan harga dan fasilitas secara langsung karena ini
sudah ditentukan
        $vektor_normal_semua["harga"] =
array("GKB"=>"0.142857143", "GH"=>"0.142811018", "ABR"=>"0.116358959
", "PPS"=>"0.141714431", "TA"=>"0.115676975", "PR"=>"0.116661301", "BE
D"=>"0.10827769", "DK"=>"0.115642484");
        $vektor_normal_semua["fasilitas"] =
array("GKB"=>"0.315789474", "GH"=>"0.157894737", "ABR"=>"0.157894737
", "PPS"=>"0.210526316", "TA"=>"0.052631579", "PR"=>"0", "BED"=>"0", "D
K"=>"0.105263158");
        // simpan ke variabel vektor_normal_semua
        $this->vektor_normal_semua = $vektor_normal_semua;

// tampilkan seluruh hasil vektor yang telah dinormalisasi
        $tabel_hitung = $this-
>susun_tabel($vektor_normal_semua, "Tampilkan seluruh hasil vektor
yang telah dinormalisasi");

// balik susunan matriknya, kolom jadi baris dan baris jadi kolom

```

```

        $vektor_normal_semua = $this-
>balik_matriknya($vektor_normal_semua);

        $tabel_hitung .= $this-
>susun_tabel($vektor_normal_semua,"Hasil matriks yang telah
diinvers");

// kalikan matriks yang telah dibalik dengan presntasi
        $matriks_hasil = array();
        $t_normalisasi = array();
        foreach($vektor_normal_semua as $indexnya => $nilai_arr){
            $total_perbaris = 0;

            foreach($nilai_arr as $index_kriteria => $nilai){
                $matriks_hasil[$indexnya][$index_kriteria] = $nilai *
$this->presentasi[$index_kriteria];
                $total_perbaris +=
$matriks_hasil[$indexnya][$index_kriteria];
            }
            // tambahkan index total ke array
            $matriks_hasil[$indexnya]["total"] = $total_perbaris;
            $t_normalisasi[$indexnya] = $total_perbaris;
        }
        $t_normalisasi = $this-
>normalisasi_vektor($t_normalisasi,false);
        // tambahkan hasil normalisasi kedalam matriks_hasil

        echo "<div onclick='show_hide(this)'
style='cursor:pointer' >hasil_perhitungan_akhir</div>";
        echo "<div id='hasil_perhitungan_akhir'
class='det_hitung' style='border:1px solid
gray;overflow:auto;width:700px;display:none'>";
        //$matriks_hasil->set_nama("Rakhmad Maulidi");

        foreach($t_normalisasi as $indexnya => $nilai){
            $matriks_hasil[$indexnya]["normalisasi"] = $nilai;
        }

```

```

        $tabel_hitung .= $this-
>susun_tabel($matriks_hasil,"Hasil perhitungan fuzzy AHP dengan
Comulative Voting");

        // urutkan berdasarkan totalnya
        $matriks_hasil = $this-
>urutkan_matriks($matriks_hasil,"normalisasi");

        $tabel_hitung .= $this-
>susun_tabel($matriks_hasil,"Hasil perhitungan yang sudah
diurutkan berdasarkan nilai normalisasi");

        if($this->display_perhitungan){
            echo $tabel_hitung;
        }
        $this->matriks_hasil = $matriks_hasil;
    }
    function matriks_ci($solusi_kriteria,$normal_vektor){
        $matriks_ci = array();
        foreach($solusi_kriteria as $perum => $nilai_arr){
            foreach($nilai_arr as $t_perum => $nilai){
                if($normal_vektor[$t_perum] == 0){
                    $matriks_ci[$perum][$t_perum] = 0;

                }
                else {
                    $matriks_ci[$perum][$t_perum] = $this-
>geomean($nilai)*($normal_vektor[$perum]/$normal_vektor[$t_perum])
;

                }
            }
        }

        $tabel_hitung = "";
        $tabel_hitung .= "<table border='1'>";
        $tabel_hitung .= "<caption>Mengecek nilai CI</caption>";
        $tabel_hitung .= "<tr>";
        $tabel_hitung .= "<td></td>";
    }
}

```



```

$perkolom = array();
foreach($matriks_ci as $perum => $nilai_arr){
    $tabel_hitung .= "<td>".$perum."</td>";
}
foreach($matriks_ci as $perum => $nilai_arr){
    $tabel_hitung .= "<tr>";
    $tabel_hitung .= "<td>".$perum."</td>";
    foreach($nilai_arr as $t_perum => $nilai){
        $tabel_hitung .= "<td>".$nilai."</td>";
        $perkolom[$t_perum][] = $nilai;
    }
    $tabel_hitung .= "</tr>";
}
$tabel_hitung .="<tr>";
$tabel_hitung .= "<td>Total</td>";
foreach($perkolom as $index => $arr){
    $tabel_hitung .= "<td>".array_sum($arr)."</td>";
}
$tabel_hitung .="</tr>";
$tabel_hitung .="</table>";
echo $tabel_hitung;
}

function tampilkan_hasil(){
    echo $this->susun_tabel($this->matriks_hasil);
}

function balik_matriknya($matriks){
    $t_matriks = array();
    foreach($matriks as $indexnya => $nilai_arr){
        foreach($nilai_arr as $index_perum => $nilai){
            $t_matriks[$index_perum][$indexnya] = $nilai;
        }
    }
    return $t_matriks;
}

```

```

function susun_tabel($matriks,$judul=""){
    $tabel_hitung = "";
    $tabel_hitung .= "<table border='1'>";
    $tabel_hitung .= "<b>".$judul."<b>";
    foreach($matriks as $indexnya => $nilai_arr){
        $tabel_hitung .= "<tr>";
        $tabel_hitung .= "<td></td>";
        foreach($nilai_arr as $index_perum => $nilai){
            $tabel_hitung .= "<td>".$index_perum."</td>";
        }
        $tabel_hitung .= "</tr>";
    }
    break;
}

foreach($matriks as $indexnya => $nilai_arr){
    $tabel_hitung .= "<tr>";
    $tabel_hitung .= "<td>".$indexnya."</td>";
    foreach($nilai_arr as $nilai){
        $tabel_hitung .= "<td>".$nilai."</td>";
    }
    $tabel_hitung .= "</tr>";
}

$tabel_hitung .= "</table> </br>";
return $tabel_hitung;
}

function bandingkan_nilai_vektor($perum_base,$perum_lain){
    if($perum_lain["m"] >= $perum_base["m"]){
        return 1;
    }
    else if($perum_base["l"] >= $perum_lain["u"]){
        return 0;
    }
    else {
        return ($perum_base["l"] -
$perum_lain["u"])/(($perum_lain["m"] - $perum_lain["u"]) -
($perum_base["m"] - $perum_base["l"]));
    }
}

```

```

function nilai_asli($nilai){
return $this->konstanta[$nilai]["asli"];
}

function nilai_kebalikan($nilai){
return $this->konstanta[$nilai]["kebalikan"];
}

function urutkan_matriks($a,$subkey) {
foreach($a as $k=>$v) {
$b[$k] = $v[$subkey];
}
arsort($b);
foreach($b as $key=>$val) {
$c[$key] = $a[$key];
}
return $c;
}
}
}
?>

```

➤ **submit.php**

```

<?php
include "koneksi.php";
include "perhitungan_ahp_berbalik.php";
// ambil data dari form inputan
$user_nilai['kedekatan'] = array();
foreach($_POST['kedekatan'] as $index => $nilai){
$user_nilai['kedekatan'][$index] = $nilai;
}

$user_nilai['air'] = array();
foreach($_POST['air'] as $index => $nilai){
$user_nilai['air'][$index] = $nilai;
}

```

```

$user_nilai['angkutan'] = array();
foreach($_POST['angkutan'] as $index => $nilai){
$user_nilai['angkutan'][$index] = $nilai;
}

$user_nilai['banjir'] = array();
foreach($_POST['banjir'] as $index => $nilai){
$user_nilai['banjir'][$index] = $nilai;
}

$user_nilai['polusi'] = array();
foreach($_POST['polusi'] as $index => $nilai){
$user_nilai['polusi'][$index] = $nilai;
}

$user_nilai['penghijauan'] = array();
foreach($_POST['penghijauan'] as $index => $nilai){
$user_nilai['penghijauan'][$index] = $nilai;
}

$user_nilai['keamanan'] = array();
foreach($_POST['keamanan'] as $index => $nilai){
$user_nilai['keamanan'][$index] = $nilai;
}

$user_nilai['lingkungan'] = array();
foreach($_POST['lingkungan'] as $index => $nilai){
$user_nilai['lingkungan'][$index] = $nilai;
}

//nilai pada perhitungan comulative voting
$presentasi["kedekatan"] = 0.9522;
$presentasi["air"] = 0.13844;
$presentasi["angkutan"] = 0.10222;
$presentasi["banjir"] = 0.9522;
$presentasi["polusi"] = 0.13844;
$presentasi["penghijauan"] = 0.10222;
$presentasi["keamanan"] = 0.9522;

```

```

$presentasi["lingkungan"] = 0.9522;
$presentasi["harga"] = 0.13844;
$presentasi["fasilitas"] = 0.10222;

$tes = new ahp($user_nilai,$presentasi,true);
$vektor_normal = $tes->vektor_normal_semua;
//var_dump($vektor_normal);
$matriks_hasil = $tes->matriks_hasil;
//var_dump($matriks_hasil);
// buat query untuk menyimpan vektor yang telah dinormalisasi

$sql = "INSERT INTO sistem_spk.tbl_normalisasi_alternatif
(kriteria,normalisasi_gkb,normalisasi_gh,normalisasi_abr,normalisa
si_pps,normalisasi_ta,normalisasi_pr,
normalisasi_bed,normalisasi_dk)";
$value = " VALUES ";
foreach($vektor_normal as $indexnya => $nilai_arr){
    $t_value = "";
    $t_value .=" ('".$indexnya."',";
    foreach($nilai_arr as $nilai){
        $t_value .="".$nilai."',";
    }
    $t_value = substr($t_value,0,strlen($t_value) - 1);
    $t_value .= "),";
    $value .= $t_value;
}
// hapus tanda koma terakhir
$value = substr($value,0,strlen($value) -1);
$sql = $sql.$value;
//echo $sql;
//memasukan nilai normalisasi alternatif kedalam tabel normalisasi
alternatif
$exe=mysql_query($sql);
echo"</br>";
$sql = "INSERT INTO sistem_spk.tbl_hasil_akhir (nama_alternatif,
bobot_kedekatan, bobot_air, bobot_angkutan, bobot_banjir,
bobot_polusi, bobot_penghijauan,bobot_keamanan, bobot_lingkungan,

```

```

bobot_harga, bobot_fasilitas, bobot_total)";
$value = " VALUES ";
foreach($matriks_hasil as $indexnya => $nilai_arr){
    $t_value = "";
    $t_value .= " ('".$indexnya."',";
    foreach($nilai_arr as $key => $nilai){
        if($key == "total") continue;
        $t_value .= "'".$nilai."',";
    }
    $t_value = substr($t_value,0,strlen($t_value) - 1);
    $t_value .= "),"";
    $value .= $t_value;
}
// hapus tanda koma terakhir
$value = substr($value,0,strlen($value) -1);
$sql = $sql.$value;
//echo $sql;
//memasukan nilai hasil kedalam tabel hasil normalisasi
$exe2=mysql_query($sql);

?>
<script >
function show_hide(elm){
    var id =$ (elm).text();
    $(".det_hitung").hide();
    $("div#" +id).show();
}
</script>

```

Coding untuk membuat view pada SQL

➤ View peringkat

```

CREATE VIEW peringkat AS SELECT akhir.nama_alternatif,
akhir.id_history, tbl_alternatif.keterangan FROM akhir,
tbl_alternatif
WHERE akhir.nama_alternatif= tbl_alternatif.nama_alternatif ORDER
BY id_history LIMIT 0,3

```

➤ **View new_hasil2**

```
CREATE VIEW new_hasil2 AS SELECT peringkat.nama_alternatif,  
tbl_detail_rumah.nama_perumahan, tbl_detail_rumah.nama_pengembang,  
tbl_detail_rumah.type_rumah,  
tbl_detail_rumah.keterangan, tbl_detail_rumah.persyaratan,  
tbl_detail_rumah.marketing, tbl_detail_rumah.gambar_1,  
tbl_detail_rumah.gambar_2  
FROM peringkat, tbl_detail_rumah  
WHERE peringkat.nama_alternatif = tbl_detail_rumah.nama_alternatif  
GROUP BY peringkat.id_history;
```