


```

</div>
                                </form>
                                </div>
                                </div>
                                </div>
                                <p>
                                <div class="submit">
                                <font
color="black" face="verdana" size="1">
                                <center>
                                COPYRIGHT &copy; 2017
by Fiki Dedi Andika
                                </center>
                                </font>
                                </div>
                                </p>
                                </div>
                                </div>
                                </body>
                                </html>

```

5. cek_login.php

```

<?php
include "koneksi/koneksi.php";
$login=mysql_query("SELECT * FROM user WHERE
id_user=$_POST[username] AND
password=$_POST[password]");
$ketemu=mysql_num_rows($login);
$r=mysql_fetch_array($login);

// Apabila username dan password ditemukan
if ($ketemu > 0) {
    session_start();
    $_SESSION[id_user] = $r[id_user];
    $_SESSION[password] = $r[password];

    // echo $_SESSION['leveluser'];
    header('location:admin/home.php');
} else {
    echo "
<link rel='stylesheet' type='text/css'
href='sweetalert/dist/sweetalert.css'>
<script type='text/javascript'
src='sweetalert/dist/sweetalert.min.js'></script>
<link rel='stylesheet' type='text/css'
href='sweetalert/themes/twitter/twitter.css'>
<script>
    setTimeout(function () {
        swal({
                                title: 'Login Gagal !',
                                text: 'Username atau
                                Password yang anda masukkan salah !',
                                type: 'error',
                                timer: 3000,
                                showConfirmButton: true
                                });
        },10);
        window.setTimeout(function(){
            window.location.replace('login.php');
        },3000);
    </script>;

```

```

// echo "<script>alert('Login gagal! Username & Password
tidak benar!'); document.location.href='login.php';</script>\n";
}
?>

```

6. logout.php

```

<?php
session_start();
session_unset();
session_destroy();
header('location:login.php');
?>

```

7. home.php

```

<?php
include('../otentikasi.php');
?>
<!DOCTYPE html>
<head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible"
content="IE=edge,chrome=1">
    <title>Aplikasi Prediksi Kelulusan</title>
    <meta name="description" content="">
    <meta name="viewport" content="width=device-width">
    <link rel="stylesheet"
href="css/bootstrap.min.css">
    <link rel="stylesheet" href="css/main.css">
    <link rel="stylesheet" href="css/leaflet.css" />
    <link rel="stylesheet" href="css/icomoon-
social.css">
    <link rel="stylesheet" href="css/forhome.css">
    <script src="js/modernizr-2.6.2-respons-
1.1.0.min.js"></script>

    </head>
    <!-- Favicon -->
    <link rel="shortcut icon" href="img/favicon.ico" />
    <body>

<!-- START NAVBAR MENU WITH LOGO N TOGGLE
BUTTON -->
<!--
note : navbar-fixed-top biar navbar tetep diatas
navbar-fixed-bottom biar navbar berada dibawah
-->
    <nav class="navbar navbar-default navbar-fixed-top"
role="navigation">
        <div class="container">
            <div class="navbar-header">
                <button type="button" class="navbar-
toggle" data-toggle="collapse" data-target=#navbar-container">
                    <span class="sr-
only">Show and Hide the Navigation</span>
                    <span class="icon-
bar"></span>
                    <span class="icon-
bar"></span>
                    <span class="icon-
bar"></span>
                    </button>

```

```

        </div>
        <div class="collapse navbar-collapse"
id="navbar-container">
            <ul class="nav navbar-
nav">
                <li
class="active"><a href="home.php"><span class="glyphicon
glyphicon-home"></span> Home</a></li>
                <li><a
href="data_training.php"><span class="glyphicon glyphicon-
tasks"></span> Data Training</a></li>
                <li><a
href="tabel_mining.php"><span class="glyphicon glyphicon-
list-alt"></span> Tabel Mining</a></li>
                <li><a
href="pohon_keputusan.php"><span class="glyphicon
glyphicon-tree-conifer"></span> Pohon Keputusan</a></li>
                <li><a
href="data_testing.php"><span class="glyphicon glyphicon-
pencil"></span> Data Testing</a></li>
                <li><a
href="tabel_testing.php"><span class="glyphicon glyphicon-
th-list"></span> Tabel Testing</a></li>
                <li><a
href="pengujian.php"><span class="glyphicon glyphicon-
retweet"></span> Pengujian</a></li>
                <li><a
href="about.php"><span class="glyphicon glyphicon-
user"></span> About</a></li>
            </ul>
            <div class="navbar-form
navbar-right">
                <a
href="..logout.php" class="btn-primary btn-sm btn-danger
glyphicon glyphicon-off" role="button"> Logout</a>
            </div>
        </div>
    </nav>
<!-- END NAVBAR -->
<div class="container">
<div style="margin-bottom:15px"></div>
<div class="alert alert-info">
<br/>
<br/>
    <h4>Selamat datang <b><?php echo $_SESSION['id_user']
?> !</h4>

```

Website ini digunakan untuk memprediksi kelulusan mahasiswa Informatics And Business Instite Darmajaya dengan menerapkan metode Algoritma C4.5

```

</div>
<div class="row-fluid home-menu">
    <a href="data_training.php" class="span3" style="margin-
bottom:10px">
        <div class="text-center box masyarakat">
            <p></p>
            <h4>Data Training</h4>
            <p>

```

Fitur untuk membuka data training. Data ini berisi data-data mahasiswa yang sudah lulus atau alumni.

```

        </p>
    </div>
    <a href="data_testing.php" class="span3" style="margin-
bottom:10px">
        <div class="text-center box sekolah">
            <p></p>
            <h4>Data Testing</h4>
            <p>
                Fitur untuk membuka data testing. Data ini berisi
                data-data mahassiswa yang masih aktif atau belum lulus.
            </p>
        </div>
    </a>
    <a href="pohon_keputusan.php" class="span3"
style="margin-bottom:10px">
        <div class="text-center box siswa">
            <p></p>
            <h4>Pohon Keputusan</h4>
            <p>
                Fitur untuk melihat pohon keputusan dan rule yang
                dihasilkan dari proses mining data.
            </p>
        </div>
    </a>
    <a href="tabel_testing.php" class="span3" style="margin-
bottom:10px">
        <div class="text-center box mahasiswa">
            <p></p>
            <h4>Hasil Prediksi</h4>
            <p>
                Fitur untuk melihat hasil prediksi kelulusan
                mahasiswa berdasarkan metode Algoritma C4.5
            </p>
        </div>
    </div>
</div>
</div>
</div>
<div class="container">

```

```

        <div class="footer-main-
home navbar navbar-fixed-bottom">

```

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```

        </div>
        <!-- Javascripts -->
        <script>window.jQuery || document.write('<script
src="js/jquery-1.9.1.min.js"></script>')</script>
        <script src="js/bootstrap.min.js"></script>
        <script src="js/jquery.sequence-min.js"></script>
    </body>
</html>

```

```

8. data_training.php
<?php
include('../otentikasi.php');

```

```

?>
<!DOCTYPE html>
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible"
content="IE=edge,chrome=1">
  <title>Aplikasi Prediksi Kelulusan</title>
  <meta name="description" content="">
  <meta name="viewport" content="width=device-width">
  <link rel="stylesheet"
href="css/bootstrap.min.css">
  <link rel="stylesheet" href="css/main.css">
  <link rel="stylesheet" href="css/leaflet.css" />
  <link rel="stylesheet" href="css/icomoon-
social.css">
  <link rel="stylesheet" href="css/forhome.css">
  <script src="js/modernizr-2.6.2-respond-
1.1.0.min.js"></script>
  <style type="text/css"> <!--ini untuk rubah warna
navbar inverse bootstrap -->
      .navbar-inverse{
          background-color:
#3b5998;
      }
</style>
</head>
<!-- Favicon -->
<link rel="shortcut icon" href="img/favicon.ico" />
<body>

<!-- START NAVBAR MENU -->
<!--
note : navbar-fixed-top biar navbar tetep diatas
navbar-fixed-bottom biar navbar berada dibawah
-->
<nav class="navbar navbar-default navbar-fixed-top"
role="navigation">
  <div class="container">
    <div class="navbar-header">
      <button type="button" class="navbar-
toggle" data-toggle="collapse" data-target=#navbar-container">
        <span class="sr-
only">Show and Hide the Navigation</span>
        <span class="icon-
bar"></span>
        <span class="icon-
bar"></span>
        <span class="icon-
bar"></span>
      </button>
    </div>
    <div class="collapse navbar-collapse"
id="navbar-container">
      <ul class="nav navbar-
nav">
        <li
class="active"><a href="home.php"><span class="glyphicon
glyphicon-home"></span> Home</a></li>
        <li><a
href="data_training.php"><span class="glyphicon glyphicon-
tasks"></span> Data Training</a></li>

```

```

        <li><a
href="tabel_mining.php"><span class="glyphicon glyphicon-
list-alt"></span> Tabel Mining</a></li>
        <li><a
href="pohon_keputusan.php"><span class="glyphicon
glyphicon-tree-conifer"></span> Pohon Keputusan</a></li>
        <li><a
href="data_testing.php"><span class="glyphicon glyphicon-
pencil"></span> Data Testing</a></li>
        <li><a
href="tabel_testing.php"><span class="glyphicon glyphicon-
th-list"></span> Tabel Testing</a></li>
        <li><a
href="pengujian.php"><span class="glyphicon glyphicon-
retweet"></span> Pengujian</a></li>
        <li><a
href="about.php"><span class="glyphicon glyphicon-
user"></span> About</a></li>
      </ul>
    </div class="navbar-form
navbar-right">
      <a
href="..logout.php" class="btn-primary btn-sm btn-danger
glyphicon glyphicon-off" role="button"> Logout</a>
    </div>
  </nav>
<!-- END NAVBAR -->

<div class="container">
<div style="margin-bottom:15px"></div>
<div class="alert alert-info">
<br/>
<br/>
<ul class="breadcrumb">
  <li><a href="home.php">Home</a></li>
  <li class="active">Data Training</li>
</ul>
</div>

<div class="section">
  <div class="container">
    <div class="row">
      <!-- Full Input & Tabel -->
      <div class="col-sm-12">
        <div
class="tabbable">
          <!--
          Tabs -->
          <ul class="nav nav-tabs product-details-nav">
            <li class="active"><a href="#tab1" data-
toggle="tab">Tabel Data Training</a></li>
            <li><a href="#tab2" data-toggle="tab">Input
Data Training</a></li>
          </ul>

```

```

<!-- Tab Content (Full Tabel) -->
<div class="tab-content
product-detail-info">
<div class="tab-
pane active" id="tab1">
<!--
Data Training -->
<br>
class="contact-form-wrapper">
<?php
"../koneksi/koneksi.php";
href=./proses.php?module=data_training&act=hapus_semua_d
ata_training>Hapus Semua Data</a><br><hr>";
include
"modul/tabel_data_training.php";
?>
</div>

<!-- End Data Training -->
<!-- End Full Description &
Specification -->
</div>
</div>
</div>
<div class="container">
<div class="footer-main">
Copyright &copy 2017<a href="#"> by Fiki Dedi
Andika</a>
</div>
</div>
<!-- Javascripts -->
<script>window.jQuery || document.write('<script
src="js/jquery-1.9.1.min.js"></script>')</script>
<script src="js/bootstrap.min.js"></script>
</body>
</html>

9. data_testing.php
<?php
include('../otentikasi.php');
?>
<!DOCTYPE html>
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible"
content="IE=edge,chrome=1">
<title>Aplikasi Prediksi Kelulusan</title>
<meta name="description" content="">
<meta name="viewport" content="width=device-width">
<link rel="stylesheet"
href="css/bootstrap.min.css">
<link rel="stylesheet" href="css/main.css">
<link rel="stylesheet" href="css/leaflet.css" />
<link rel="stylesheet" href="css/icomoon-
social.css">
<link rel="stylesheet" href="css/forhome.css">
<script src="js/modernizr-2.6.2-respond-
1.1.0.min.js"></script>
<style type="text/css"><!--ini untuk rubah warna navbar
inverse bootstrap -->
.navbar-inverse{
background-color:
#3b5998;
}
</style>
</head>
<!-- Favicon -->
<link rel="shortcut icon" href="img/favicon.ico" />
</head>
<body>
<!-- START NAVBAR MENU -->
<!--
note : navbar-fixed-top biar navbar tetep diatas
navbar-fixed-bottom biar navbar berada dibawah
-->
<nav class="navbar navbar-default navbar-fixed-top"
role="navigation">
<div class="container">
<div class="navbar-header">
<button type="button" class="navbar-
toggle" data-toggle="collapse" data-target="#navbar-container">
<span class="sr-
only">Show and Hide the Navigation</span>
<span class="icon-
bar"></span>
<span class="icon-
bar"></span>
<span class="icon-
bar"></span>
</div>
</div>
<div class="collapse navbar-collapse"
id="navbar-container">
<ul class="nav navbar-
nav">
<li
class="active"><a href="home.php"><span class="glyphicon
glyphicon-home"></span> Home</a></li>
<li><a
href="data_training.php"><span class="glyphicon glyphicon-
tasks"></span> Data Training</a></li>
<li><a
href="tabel_mining.php"><span class="glyphicon glyphicon-
list-alt"></span> Tabel Mining</a></li>
<li><a
href="pohon_keputusan.php"><span class="glyphicon
glyphicon-tree-conifer"></span> Pohon Keputusan</a></li>
<li><a
href="data_testing.php"><span class="glyphicon glyphicon-
pencil"></span> Data Testing</a></li>
<li><a
href="tabel_testing.php"><span class="glyphicon glyphicon-
th-list"></span> Tabel Testing</a></li>
<li><a
href="pengujian.php"><span class="glyphicon glyphicon-
retweet"></span> Pengujian</a></li>

```



```

        echo "
    <div class='form-group'>

        <label for='Name' class='col-sm-2 control-
label'><b>${atribut}</b></label>
        <div class='col-sm-4'>

            <input class='form-control' id='Name'
name='${atribut}' value='${data[${atribut}]}' type='text'
placeholder=" required">

            </div>

        </div>";
    }

    function viewForm1($atribut, $atributx) {
    $query = mysql_query("SELECT * FROM data_testing
WHERE id_testing= $_GET[id_testing]");
    $data = mysql_fetch_array($query);
    echo "
    <div class='form-group'>

        <label for='Name' class='col-sm-2 control-
label'><b>${atributx}</b></label>
        <div class='col-sm-4'>

            <input class='form-control' id='Name'
name='${atribut}' value='${data[${atribut}]}' type='text'
placeholder=" required">

            </div>

        </div>";
    }

    function viewFormSelect($atribut,
$atributx) {
    $query = mysql_query("SELECT *
FROM data_testing WHERE
id_testing= $_GET[id_testing]");
    $data = mysql_fetch_array($query);
    echo "

    <div class='form-group'>

        <label for='contact-message'
class='col-sm-2 control-label'><b>${atributx}</b></label>

        <div class='col-
sm-3'>

            <select name='${atribut}' class='form-
control' id='contact-message' type='text' placeholder="
required">

                <option value='${data[${atribut}]}'
selected='selected'>${data[${atribut}]}</option>";

                $sqlData1 =
mysql_query("SELECT * FROM atribut where atribut =
'${atribut}' and nilai_atribut<>'${data[${atribut}]}'");

```

```

        while($rowData1 =
mysql_fetch_array($sqlData1)) {

            echo "<option
value='${rowData1[nilai_atribut]}'>${rowData1[nilai_atrib
ut]";
        }

        echo "</option>

        </select>

    </div>";

    </div>";
    }?>
    <form class='form-horizontal' role='form' method=POST
action='./proses.php?module=data_testing&act=update_
data_testing'>
    <input type=hidden name=id_testing value=<?php echo
"$data[id_testing]"; ?>>

    <?php

        viewForm('npm', 'npm');

        viewForm1('nama', 'nama');

        viewFormSelect('jenis_kelamin', 'jenis
kelamin');
        viewFormSelect('asal_sekolah', 'asal sekolah');

        viewFormSelect('kota', 'kota');

        viewFormSelect('pekerjaan_orang_tua', 'pekerjaan
orang tua');
        viewFormSelect('jalur_masuk', 'jalur masuk');

        viewFormSelect('kelas', 'kelas');

        viewFormSelect('ips1', 'ips1');
    ?>

    <br>

    <div class='form-group'>

    <div class='col-sm-3'>

        <button type='submit' class='btn pull-
right'>Simpan</button>
    </div>

    <div class='col-sm-1'>

        <button
onclick='self.history.back()' class='btn pull-

```

```
right'>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Batal&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</button>
```

```
</div> </div>
</form><!-- End Data testing -->
```

11. edit_data_training.php

```
<div class="tab-content product-detail-info">
  <div class="tab-pane active" id="tab1">
    <!-- Data Testing -->
    <?php
    include "../koneksi/koneksi.php";
    $query = mysql_query("SELECT * FROM data_training
    WHERE id_testing='$_GET[id_testing]'");
    $data =
    mysql_fetch_array($query);

    function
    viewForm($atribut, $atributx) {
    $query = mysql_query("SELECT * FROM data_training
    WHERE id_training='$_GET[id_training]'");
    $data = mysql_fetch_array($query);
    echo "
    <div class='form-group'>
      <label for='Name' class='col-sm-2 control-
    label'><b>$atributx</b></label>
      <div class='col-sm-4'>
        <input class='form-control' id='Name'
    name='$atribut' value='$data[$atribut]' type='text'
    placeholder=" required">
      </div>
    </div>";
    </div>;
  }
}
```

```
function viewForm1($atribut, $atributx) {
$query = mysql_query("SELECT * FROM data_training
WHERE id_training = $_GET[id_training]");
$data = mysql_fetch_array($query);
echo "
<div class='form-group'>
  <label for='Name' class='col-sm-2 control-
label'><b>$atributx</b></label>
  <div class='col-sm-4'>
    <input class='form-control' id='Name'
name='$atribut' value='$data[$atribut]' type='text'
placeholder=" required">
  </div>
</div>";
}
function viewFormSelect($atribut,
$atributx) {
  $query = mysql_query("SELECT *
FROM data_training WHERE
id_training='$_GET[id_training]'");
  $data = mysql_fetch_array($query);
  echo "

```

```
<div class='form-group'>
```

```
  <label for='contact-message'
class='col-sm-2 control-label'><b>$atributx</b></label>
```

```
  <div class='col-
sm-3'>
```

```
    <select name='$atribut' class='form-
control' id='contact-message' type='text' placeholder="
required">
```

```
      <option value='$data[$atribut]'
selected='selected'>$data[$atribut]</option>;
```

```
      $sqlData1 =
mysql_query("SELECT * FROM atribut where atribut =
'$atribut' and nilai_atribut<>'$data[$atribut]'");
```

```
      while($rowData1 =
mysql_fetch_array($sqlData1)) {
```

```
        echo "<option
value='$rowData1[nilai_atribut]'>$rowData1[nilai_atrib
ut]";
      }
    }
  </select>
```

```
  </option>
```

```
</div>
```

```
</div>;
```

```
<form class='form-horizontal' role='form' method=POST
action='./proses.php?module=data_testing&act=update_
data_training'>
```

```
  <input type=hidden name=id_training value=<?php
echo "$data[id_training]"; ?>
```

```
<?php
```

```
  viewForm('npm', 'npm');
```

```
  viewForm1('nama', 'nama');
```

```
  viewFormSelect('jenis_kelamin', 'jenis
kelamin');
```

```
  viewFormSelect('asal_sekolah', 'asal sekolah');
```

```
  viewFormSelect('kota', 'kota');
```

```
  viewFormSelect('pekerjaan_orang_tua', 'pekerjaan
```



```

    }
    echo "<b>$no.</b> if
<b></b>$rowLihatRule[rule]<b></b> then
<b>$keputusan</b><font color=blue>(id_rule =
$rowLihatRule[id_rule])</font><br><br>";

    $no++;
    } ?>

```

14. proses.php

```

<?php
error_reporting(0);
function deleteAllDb()
{
    mysql_query("TRUNCATE data_training");
    mysql_query("TRUNCATE data_testing");
    mysql_query("TRUNCATE data_keputusan_testing");

    mysql_query("TRUNCATE perulangan_C45");
    mysql_query("TRUNCATE mining_C45");
    mysql_query("TRUNCATE pohon_keputusan_C45");
    mysql_query("TRUNCATE rule_C45");
}

function populateAtribut2()
{
    mysql_query("TRUNCATE atribut");
    mysql_query("INSERT INTO `atribut` (`id_atribut`,
`atribut`, `nilai_atribut`) VALUES
        (1, 'jenis_kelamin', 'Laki-laki'),
        (2, 'jenis_kelamin',
'Perempuan'),
        (3, 'asal_sekolah', 'SMA'),
        (4, 'asal_sekolah', 'SMK'),
        (5, 'asal_sekolah', 'MAN'),
        (6, 'kota', 'Bandar
Lampung'),
        (7, 'kota', 'Luar Bandar
Lampung'),
        (8, 'pekerjaan_orang_tua',
'ABRI'),
        (9, 'pekerjaan_orang_tua',
'Buruh'),
        (10, 'pekerjaan_orang_tua',
'Guru'),
        (11, 'pekerjaan_orang_tua',
'Pegawai Negeri'),
        (12, 'pekerjaan_orang_tua',
'Pegawai Swasta'),
        (13, 'pekerjaan_orang_tua',
'Petani'),
        (14, 'pekerjaan_orang_tua',
'PNS'),
        (15, 'pekerjaan_orang_tua',
'Wiraswasta'),
        (16, 'pekerjaan_orang_tua',
'Lain-lain'),
        (17, 'jalur_masuk',
'Reguler'),
        (18, 'jalur_masuk',
'Bidikmisi'),
        (19, 'kelas', 'Reguler'),
        (20, 'kelas', 'Ekstensi'),
        (21, 'ips1', '>=3'),

```

```

(22, 'ips1', '>=2'),
(23, 'ips1', '<2');");
}

// session_start();
include "../koneksi/koneksi.php";

$module=$_GET[module];
$act=$_GET[act];

// hapus data Training per item
if ($module=='data_training' AND
$act=='hapus_data_training'){
    mysql_query("DELETE FROM data_training WHERE
id_training=$_GET[id_training]");
    echo "<script>alert('Data berhasil dihapus!');
document.location.href='data_training.php';</script>\n";
}

// hapus semua data Training
elseif ($module=='data_training' AND
$act=='hapus_semua_data_training'){
    mysql_query("TRUNCATE `data_training`");
    deleteAllDb();
    populateAtribut2();
    echo "<script>alert('Data berhasil dihapus!');
document.location.href='data_training.php';</script>\n";
}

// Input Data Training
elseif ($module=='data_training' AND $act=='input'){
    mysql_query("INSERT INTO data_training VALUES(,
    $_POST[npm],
    $_POST[nama],
    $_POST[jenis_kelamin],
    $_POST[asal_sekolah],
    $_POST[kota],
    $_POST[pekerjaan_orang_tua],
    $_POST[jalur_masuk],
    $_POST[kelas],
    $_POST[ips1],
    $_POST[hasil]
)");
    echo "<script>alert('Data berhasil diinput!');
document.location.href='data_training.php';</script>\n";
}

// Update Data Training
elseif ($module=='data_training' AND
$act=='update_data_training'){
    mysql_query("UPDATE data_training SET
        npm
        =
        $_POST[npm],
        nama
        =
        $_POST[nama],
        jenis_kelamin
        =
        $_POST[jenis_kelamin],
        asal_sekolah
        =
        $_POST[asal_sekolah],
        kota
        =
        $_POST[kota],

```

```

    pekerjaan_orang_tua           =
'$_POST[pekerjaan_orang_tua]',
    jalur_masuk                   =
'$_POST[jalur_masuk]',
    kelas                         =
'$_POST[kelas]',
    ips1                          =
'$_POST[ips1]',
    hasil                         =
'$_POST[hasil]'
    WHERE id_training             = '$_POST[id_training]';
    echo "<script>alert('Data berhasil diupdate!');
document.location.href='data_training.php';</script>\n";
}

// hapus data Testing per item
if ($module=='data_testing' AND
$act=='hapus_data_testing'){
    mysql_query("DELETE FROM data_testing WHERE
id_testing=$_GET[id_testing]");
    echo "<script>alert('Data berhasil dihapus!');
document.location.href='data_testing.php';</script>\n";
}

// hapus semua data Testing
elseif ($module=='data_testing' AND
$act=='hapus_semua_data_testing'){
    mysql_query("TRUNCATE `data_testing`");
    echo "<script>alert('Data berhasil dihapus!');
document.location.href='data_testing.php';</script>\n";
}

// Input Data Testing
elseif ($module=='data_testing' AND $act=='input'){
    mysql_query("INSERT INTO data_testing VALUES(",
        '$_POST[npm]',
        '$_POST[nama]',
        '$_POST[jenis_kelamin]',
        '$_POST[asal_sekolah]',
        '$_POST[kota]',
        '$_POST[pekerjaan_orang_tua]',
        '$_POST[jalur_masuk]',
        '$_POST[kelas]',
        '$_POST[ips1]'
    );
    echo "<script>alert('Data berhasil diinput!');
document.location.href='data_testing.php';</script>\n";
}

// Update Data Testing
elseif ($module=='data_testing' AND
$act=='update_data_testing'){
    mysql_query("UPDATE data_testing SET
        npm
        '$_POST[npm]',
        nama
        '$_POST[nama]',
        jenis_kelamin
        '$_POST[jenis_kelamin]',
        asal_sekolah
        '$_POST[asal_sekolah]',
        kota
        '$_POST[kota]',
        pekerjaan_orang_tua           =
        '$_POST[pekerjaan_orang_tua]',
        jalur_masuk                   =
        '$_POST[jalur_masuk]',
        kelas                         =
        '$_POST[kelas]',
        ips1                          =
        '$_POST[ips1]'
        WHERE id_testing             = '$_POST[id_testing]');
    echo "<script>alert('Data berhasil diupdate!');
document.location.href='data_testing.php';</script>\n";
}

// Hapus Semua Data Perhitungan C45
elseif ($module=='C45' AND
$act=='hapus_data_perhitungan'){
    mysql_query("TRUNCATE `perulangan_C45`");
    echo "<script>alert('Data berhasil dihapus!');
document.location.href='tabel_mining.php';</script>\n";
    populateAtribut2();
}

// Hapus Semua Data Pohon Keputusan C45
elseif ($module=='C45' AND
$act=='hapus_pohon_keputusan'){
    mysql_query("TRUNCATE `pohon_keputusan_C45`");
    mysql_query("TRUNCATE `rule_C45`");
    mysql_query("DELETE FROM rule_keputusan_utama
where pohon = 'C45'");
    echo "<script>alert('Data berhasil dihapus!');
document.location.href='pohon_keputusan.php';</script>\n";
    populateAtribut2();
}

// Hapus Semua Data Hasil Testing
elseif ($module=='hasil_testing' AND
$act=='hapus_data_testing'){
    mysql_query("TRUNCATE `data_keputusan_testing`");
    echo "<script>alert('Data berhasil dihapus!');
document.location.href='tabel_testing.php';</script>\n"; } ?>
15. proses_mining.php
<?php
include "../koneksi/koneksi.php";
include
"../koneksi/hitungWaktu.php";

$sql=mysql_query("SELECT COUNT(*) FROM
data_training");
$data=mysql_fetch_array($sql);
if
(empty($data)) {
    echo
"<script>alert('Data Training Kosong, Harap Input Data
Training!');
document.location.href='media.php?module=C45';</script>\n";
} else {
    timer_start();
    include "fungsi/miningC45.php";
    $waktu = timer_stop(3);
}

```



```

    $sqlAtribut = mysql_query("SELECT distinct `Satribut`
FROM data_training ORDER by `Satribut`");
    while ($rowAtribut = mysql_fetch_array($sqlAtribut)) { !
        mysql_query("insert into `atribut` values
        (', `Satribut`, `SrowAtribut[\"$atribut\"]");
    }
}

function hapusAtributParent($id_pohon) {
    $sqlAtribut = mysql_query("SELECT parent, atribut,
nilai_atribut FROM pohon_keputusan_C45 WHERE id_pohon
= '$id_pohon'");
    $rowAtribut = mysql_fetch_array($sqlAtribut);
    mysql_query("DELETE FROM atribut WHERE atribut =
'$rowAtribut[\"$atribut\"]");
    if ($rowAtribut['parent'] == 0) {
        echo "";
    } else {
        hapusAtributParent($rowAtribut['parent']);
    }
}

function populateAtribut()
{
    mysql_query("TRUNCATE atribut");
    mysql_query("insert into `atribut` values
        (', 'Total', 'Total')
        ");
    insertAtribut('jenis_kelamin');
    insertAtribut('asal_sekolah');
    insertAtribut('kota');
    insertAtribut('pekerjaan_orang_tua');
    insertAtribut('jalur_masuk');
    insertAtribut('kelas');
    insertAtribut('ips1');
}

function populateAtribut2()
{
    mysql_query("TRUNCATE atribut");
    mysql_query("INSERT INTO `atribut` (`id_atribut`,
`atribut`, `nilai_atribut`) VALUES
        (1, 'jenis_kelamin', 'Laki-laki'),
'Perempuan',
        (2, 'jenis_kelamin',
        (3, 'asal_sekolah', 'SMA'),
        (4, 'asal_sekolah', 'SMK'),
        (5, 'asal_sekolah', 'MAN'),
        (6, 'kota', 'Bandar
Lampung'),
        (7, 'kota', 'Luar Bandar
Lampung'),
        (8, 'pekerjaan_orang_tua',
'ABRI'),
        (9, 'pekerjaan_orang_tua',
'Buruh'),
        (10, 'pekerjaan_orang_tua',
'Guru'),
        (11, 'pekerjaan_orang_tua',
'Pegawai Negeri'),
        (12, 'pekerjaan_orang_tua',
'Pegawai Swasta'),
        (13, 'pekerjaan_orang_tua',
'Petani'),
        (14, 'pekerjaan_orang_tua',
'PNS'),
        (15, 'pekerjaan_orang_tua',
'Wiraswasta'),
        (16, 'pekerjaan_orang_tua',
'Lain-lain'),
        (17, 'jalur_masuk',
'Reguler'),
        (18, 'jalur_masuk',
'Bidikmisi'),
        (19, 'kelas', 'Reguler'),
        (20, 'kelas', 'Ekstensi'),
        (21, 'ips1', '>=3'),
        (22, 'ips1', '>=2'),
        (23, 'ips1', '<2');");
}

function populateDb()
{
    // #1# Hapus semua DB dan insert default atribut dan nilai
    atribut
    mysql_query("TRUNCATE rule_keputusan_utama");
    mysql_query("TRUNCATE pohon_keputusan_C45");
    mysql_query("TRUNCATE rule_C45");
    mysql_query("TRUNCATE mining_C45");
    mysql_query("TRUNCATE perulangan_C45");
    populateAtribut();
}

// ===== FUNGSI PERHITUNGAN C45
// =====
function perhitunganC45($atribut, $nilai_atribut)
{
    if (empty($atribut) AND empty($nilai_atribut)) {
        // #2# Jika atribut yg diinputkan kosong, maka lakukan
        perhitungan awal
        $kondisiAtribut = ""; // set kondisi atribut kosong
    } else if (!empty($atribut) AND !empty($nilai_atribut)) {
        // jika atribut tdk kosong, maka select kondisi atribut dari
        DB
        $sqlKondisiAtribut = mysql_query("SELECT
kondisi_atribut FROM pohon_keputusan_C45 WHERE atribut
= '$atribut' AND nilai_atribut = '$nilai_atribut' order by
id_pohon DESC LIMIT 1");
        $rowKondisiAtribut =
mysql_fetch_array($sqlKondisiAtribut);
        $kondisiAtribut = str_replace("~", "",
$rowKondisiAtribut['kondisi_atribut']); // replace string ~
menjadi '
    }

    // ambil seluruh atribut
    $sqlAtribut = mysql_query("SELECT distinct atribut
FROM atribut");
    while($rowGetAtribut = mysql_fetch_array($sqlAtribut)) {
        $getAtribut = $rowGetAtribut['atribut'];
        if ($getAtribut == 'Total') {
            // #3# Jika atribut = total, maka hitung prilaku kasus total,
            prilaku kasus Tepat Waktu dan prilaku kasus Tidak Tepat
            Waktu
            // hitung prilaku kasus Tepat Waktu
            $sqlJumlahKasusTepatWaktu =
mysql_query("SELECT COUNT(*) as jumlah_tidak FROM

```

```

data_training WHERE hasil = 'Tepat Waktu'
$skondisiAtribut");
    $rowJumlahKasusTepatWaktu =
mysql_fetch_array($sqlJumlahKasusTepatWaktu);
    $getJumlahKasusTepatWaktu =
$rowJumlahKasusTepatWaktu['jumlah_tidak'];

    // hitung prilaku kasus Tidak Tepat Waktu
    $sqlJumlahKasusTidakTepatWaktu =
mysql_query("SELECT COUNT(*) as jumlah_tepat FROM
data_training WHERE hasil = 'Tidak Tepat Waktu'
$skondisiAtribut");
    $rowJumlahKasusTidakTepatWaktu =
mysql_fetch_array($sqlJumlahKasusTidakTepatWaktu);
    $getJumlahKasusTidakTepatWaktu =
$rowJumlahKasusTidakTepatWaktu['jumlah_tepat'];

    // hitung prilaku kasus total
    $getJumlahKasusTotal =
$getRowJumlahKasusTepatWaktu +
$getRowJumlahKasusTidakTepatWaktu;

##4# Insert prilaku kasus total, prilaku kasus Tepat Waktu dan
prilaku kasus Tidak Tepat Waktu ke DB
// insert ke database mining_C45
mysql_query("INSERT INTO mining_C45 VALUES
('Total', 'Total', '$getJumlahKasusTotal',
'$getJumlahKasusTidakTepatWaktu',
'$getJumlahKasusTepatWaktu', ", ", ")");
    } else {
##5# Jika atribut != total (atribut lainnya), maka hitung prilaku
kasus total, prilaku kasus Tepat Waktu dan prilaku kasus
Tidak Tepat Waktu masing2 atribut
// ambil nilai atribut
$sqlNilaiAtribut = mysql_query("SELECT
nilai_atribut FROM atribut WHERE atribut = '$getAtribut'
ORDER BY id_atribut");
    while($rowNilaiAtribut =
mysql_fetch_array($sqlNilaiAtribut)) {
        $getNilaiAtribut = $rowNilaiAtribut['nilai_atribut'];

        // set kondisi dimana nilai_atribut = berdasarkan
masing2 atribut
        $skondisi = "$getAtribut = '$getNilaiAtribut'
$skondisiAtribut";

        // hitung prilaku kasus Tepat Waktu
        $sqlJumlahKasusTepatWaktuAtribut =
mysql_query("SELECT COUNT(*) as jumlah_tepat FROM
data_training WHERE hasil = 'Tepat Waktu' AND $skondisi");
        $rowJumlahKasusTepatWaktuAtribut =
mysql_fetch_array($sqlJumlahKasusTepatWaktuAtribut);
        $getJumlahKasusTepatWaktuAtribut =
$rowJumlahKasusTepatWaktuAtribut['jumlah_tepat'];

        // hitung prilaku kasus Tidak Tepat Waktu
        $sqlJumlahKasusTidakTepatWaktuAtribut =
mysql_query("SELECT COUNT(*) as jumlah_tidak FROM
data_training WHERE hasil = 'Tidak Tepat Waktu' AND
$skondisi");
        $rowJumlahKasusTidakTepatWaktuAtribut =
mysql_fetch_array($sqlJumlahKasusTidakTepatWaktuAtribut);
        $getJumlahKasusTidakTepatWaktuAtribut =
$rowJumlahKasusTidakTepatWaktuAtribut['jumlah_tidak'];

        // hitung prilaku kasus per
        $getJumlahKasusTotalAtribut =
$getRowJumlahKasusTepatWaktuAtribut +
$getRowJumlahKasusTidakTepatWaktuAtribut;

        ##6# Insert prilaku kasus total, prilaku kasus Tepat Waktu dan
prilaku kasus Tidak Tepat Waktu masing2 atribut ke DB
        // insert ke database mining_C45
        mysql_query("INSERT INTO mining_C45
VALUES ('', '$getAtribut', '$getNilaiAtribut',
'$getJumlahKasusTotalAtribut',
'$getJumlahKasusTepatWaktuAtribut',
'$getJumlahKasusTidakTepatWaktuAtribut', ", ", ")");

        ##7# Lakukan perhitungan entropy
        // perhitungan entropy
        $sqlEntropy = mysql_query("SELECT id_mining,
jml_kasus_total, jml_kasus_tepat, jml_kasus_tidak FROM
mining_C45");
        while($rowEntropy =
mysql_fetch_array($sqlEntropy)) {
            $getJumlahKasusTotalEntropy =
$rowEntropy['jml_kasus_total'];
            $getJumlahKasusTepatWaktuEntropy =
$rowEntropy['jml_kasus_tepat'];
            $getJumlahKasusTidakTepatWaktuEntropy =
$rowEntropy['jml_kasus_tidak'];
            $idEntropy = $rowEntropy['id_mining'];

            // jika jml kasus = 0 maka entropy = 0
            if ($getJumlahKasusTotalEntropy == 0 OR
$getRowJumlahKasusTepatWaktuEntropy == 0 OR
$getRowJumlahKasusTidakTepatWaktuEntropy == 0) {
                $getEntropy = 0;
            } // jika jml kasus Tepat Waktu = jml kasus Tidak
Tepat Waktu, maka entropy = 1
            } else if ($getJumlahKasusTepatWaktuEntropy
== $getJumlahKasusTidakTepatWaktuEntropy) {
                $getEntropy = 1;
            } else { // jika jml kasus != 0, maka hitung rumus
entropy:
                $perbandingan_tidak =
$getRowJumlahKasusTepatWaktuEntropy /
$getRowJumlahKasusTotalEntropy;
                $perbandingan_tepat =
$getRowJumlahKasusTidakTepatWaktuEntropy /
$getRowJumlahKasusTotalEntropy;

                $rumusEntropy = (-($perbandingan_tidak) *
log($perbandingan_tidak,2)) + (-($perbandingan_tepat) *
log($perbandingan_tepat,2));
                $getEntropy = round($rumusEntropy,4); // 4
angka di belakang koma
            }

            ##8# Update nilai entropy
            // update nilai entropy
            mysql_query("UPDATE mining_C45 SET
entropy = $getEntropy WHERE id_mining = $idEntropy");

```

```

    }

    ##9# Lakukan perhitungan information gain
    // perhitungan information gain
    // ambil nilai entropy dari total (prilaku kasus total)
    $sqlJumlahKasusTotalInfGain =
mysql_query("SELECT jml_kasus_total, entropy FROM
mining_C45 WHERE atribut = 'Total'");
    $rowJumlahKasusTotalInfGain =
mysql_fetch_array($sqlJumlahKasusTotalInfGain);
    $getJumlahKasusTotalInfGain =
$rowJumlahKasusTotalInfGain['jml_kasus_total'];
    // rumus information gain
    $getInfGain = (-($getJumlahKasusTotalEntropy /
$getJumlahKasusTotalInfGain) * ($getEntropy));

    ##10# Update information gain tiap nilai atribut (temporary)
    // update inf_gain_temp (utk mencari nilai masing2
atribut)
    mysql_query("UPDATE mining_C45 SET
inf_gain_temp = $getInfGain WHERE id_mining =
$idEntropy");
    $getEntropy =
$rowJumlahKasusTotalInfGain['entropy'];

    // prilakukan masing2 inf_gain_temp atribut
    $sqlAtributInfGain = mysql_query("SELECT
SUM(inf_gain_temp) as inf_gain FROM mining_C45
WHERE atribut = '$getAtribut'");
    while ($rowAtributInfGain =
mysql_fetch_array($sqlAtributInfGain)) {
        $getAtributInfGain =
$rowAtributInfGain['inf_gain'];

        // hitung inf gain
        $getInfGainFix = round(($getEntropy +
$getAtributInfGain),4);

    ##11# Looping perhitungan information gain, sehingga
mendapatkan information gain tiap atribut. Update information
gain
        // update inf_gain (fix)
        mysql_query("UPDATE mining_C45 SET
inf_gain = $getInfGainFix WHERE atribut = '$getAtribut'");
    }
}

}

}

}

##12# Insert atribut dgn information gain max ke DB pohon
keputusan
function insertAtributPohonKeputusan($atribut, $nilai_atribut)
{
    // ambil nilai inf gain tertinggi dimana hanya 1 atribut saja
yg dipilih
    $sqlInfGainMaxTemp = mysql_query("SELECT distinct
atribut, inf_gain FROM mining_C45 WHERE inf_gain in
(SELECT max(inf_gain) FROM `mining_C45`) LIMIT 1");
    $rowInfGainMaxTemp =
mysql_fetch_array($sqlInfGainMaxTemp);
    // hanya ambil atribut dimana prilaku kasus totalnya Tidak
Tepat Waktu kosong
    if ($rowInfGainMaxTemp['inf_gain'] > 0) {
        // ambil nilai atribut yang memiliki nilai inf gain max
        $sqlInfGainMax = mysql_query("SELECT * FROM
mining_C45 WHERE atribut =
'$rowInfGainMaxTemp[atribut]");
        while($rowInfGainMax =
mysql_fetch_array($sqlInfGainMax)) {
            if ($rowInfGainMax['jml_kasus_tidak'] == 0 AND
$rowInfGainMax['jml_kasus_tepat'] == 0) {
                $keputusan = 'Null'; // jika jml_kasus_tidak = 0 dan
jml_kasus_tepat = 0, maka keputusan Null
            } else if ($rowInfGainMax['jml_kasus_tidak'] != 0
AND $rowInfGainMax['jml_kasus_tepat'] == 0) {
                $keputusan = 'Tidak Tepat Waktu'; // jika
jml_kasus_tidak != 0 dan jml_kasus_tepat = 0, maka
keputusan Tidak Tepat Waktu
            } else if ($rowInfGainMax['jml_kasus_tidak'] == 0
AND $rowInfGainMax['jml_kasus_tepat'] != 0) {
                $keputusan = 'Tepat Waktu'; // jika jml_kasus_tidak
= 0 dan jml_kasus_tepat != 0, maka keputusan Tepat Waktu
            } else {
                $keputusan = '?'; // jika jml_kasus_tidak != 0 dan
jml_kasus_tepat != 0, maka keputusan ?
            }

            if (empty($atribut) AND empty($nilai_atribut)) {
                ##13# Jika atribut yang diinput kosong (atribut awal) maka
insert ke pohon keputusan parent = 0
                // set kondisi atribut = AND atribut = nilai atribut
                $kondisiAtribut = "AND $rowInfGainMax[atribut]
= ~$rowInfGainMax[nilai_atribut]~";
                // insert ke tabel pohon keputusan
                mysql_query("INSERT INTO
pohon_keputusan_C45 VALUES (',
'$rowInfGainMax[atribut]', '$rowInfGainMax[nilai_atribut]',
0, '$rowInfGainMax[jml_kasus_tepat]',
'$rowInfGainMax[jml_kasus_tidak]', '$keputusan', 'Belum',
'$kondisiAtribut', 'Belum')");
            }

            ##14# Jika atribut yang diinput Tidak Tepat Waktu kosong
maka insert ke pohon keputusan dimana parent diambil dari
tabel pohon keputusan sebelumnya (where atribut = atribut
yang diinput)
            else if (!empty($atribut) AND !empty($nilai_atribut)) {
                $sqlParent = mysql_query("SELECT id_pohon,
atribut, nilai_atribut, jml_kasus_tidak, jml_kasus_tepat FROM
pohon_keputusan_C45 WHERE atribut = '$atribut' AND
nilai_atribut = '$nilai_atribut' order by id_pohon DESC LIMIT
1");
                $rowParent = mysql_fetch_array($sqlParent);
                // insert ke tabel pohon keputusan
                mysql_query("INSERT INTO
pohon_keputusan_C45 VALUES (',
'$rowInfGainMax[atribut]', '$rowInfGainMax[nilai_atribut]',
$rowParent[id_pohon], '$rowInfGainMax[jml_kasus_tepat]',
'$rowInfGainMax[jml_kasus_tidak]', '$keputusan', 'Belum', ",
'Belum')");
            }
        }
    }
}
loopingKondisiAtribut();
}
}

```

```

##15# Lakukan looping kondisi atribut untuk diproses pada
fungsi perhitunganC45()
function loopingKondisiAtribut()
{
    // ambil semua id dan kondisi atribut
    $sqlLoopingKondisi = mysql_query("SELECT id_pohon,
kondisi_atribut FROM pohon_keputusan_C45");
    while($rowLoopingKondisi =
mysql_fetch_array($sqlLoopingKondisi)) {
        // select semua data dimana parent = id awal
        $sqlUpdateKondisi = mysql_query("SELECT * FROM
pohon_keputusan_C45 WHERE parent =
$rowLoopingKondisi[id_pohon] AND looping_kondisi =
'Belum");
        while($rowUpdateKondisi =
mysql_fetch_array($sqlUpdateKondisi)) {
            // set kondisi: kondisi sebelumnya yg diselect
berdasarkan parent ditambah 'AND atribut = nilai atribut'
            $skondisiAtribut =
"$rowLoopingKondisi[kondisi_atribut] AND
$rowUpdateKondisi[atribut] =
~$rowUpdateKondisi[nilai_atribut]~";
            // update kondisi atribut
            mysql_query("UPDATE pohon_keputusan_C45 SET
kondisi_atribut = '$skondisiAtribut', looping_kondisi = 'Sudah'
WHERE id_pohon = $rowUpdateKondisi[id_pohon]");
        }
    }
    insertPerulangan();
}

##16# Insert Perulangan nilai perhitungan ke DB
function insertPerulangan()
{
    $sqlInfGainMaxPerulangan = mysql_query("SELECT
distinct atribut, inf_gain FROM mining_C45 WHERE
inf_gain in (SELECT max(inf_gain) FROM `mining_C45`)
LIMIT 1");
    $rowInfGainMaxPerulangan =
mysql_fetch_array($sqlInfGainMaxPerulangan);
    // hanya ambil atribut dimana perilaku kasus totalnya Tidak
Tepat Waktu kosong
    if ($rowInfGainMaxPerulangan['inf_gain'] > 0) {
        $skondisiAtribut = "$rowInfGainMaxPerulangan[atribut]";
        $perulanganKe = 1;
        $sqlInsertPerulanganC45 = mysql_query("SELECT *
FROM mining_C45");
        while($rowInsertPerulanganC45 =
mysql_fetch_array($sqlInsertPerulanganC45)) {
            // insert ke tabel perulangan_C45
            mysql_query("INSERT INTO perulangan_C45
VALUES ('', $perulanganKe, '$skondisiAtribut',
$rowInsertPerulanganC45[atribut]',
$rowInsertPerulanganC45[nilai_atribut]',
$rowInsertPerulanganC45[jml_kasus_total]',
$rowInsertPerulanganC45[jml_kasus_tepat]',
$rowInsertPerulanganC45[jml_kasus_tidak]',
$rowInsertPerulanganC45[entropy]',
$rowInsertPerulanganC45[inf_gain]");
            $perulanganKe++;
        }
    }
}

```

```

##17# Ambil information gain max untuk diproses pada fungsi
loopingMiningC45()
function getInfGainMax($atribut, $nilai_atribut)
{
    // select inf gain max
    $sqlInfGainMaxAtribut = mysql_query("SELECT distinct
atribut FROM mining_C45 WHERE inf_gain in (SELECT
max(inf_gain) FROM `mining_C45`) LIMIT 1");
    while($rowInfGainMaxAtribut =
mysql_fetch_array($sqlInfGainMaxAtribut)) {
        $inf_gain_max_atribut =
"$rowInfGainMaxAtribut[atribut]";
        if (empty($atribut) AND empty($nilai_atribut)) {
            // jika atribut kosong, proses atribut dgn inf gain max
pada fungsi loopingMiningC45()
            loopingMiningC45($inf_gain_max_atribut);
        } else if (!empty($atribut) AND !empty($nilai_atribut)) {
            // proses atribut dgn inf gain max pada fungsi
loopingMiningC45()
            loopingMiningC45($inf_gain_max_atribut);
        }
    }
}

##18# Looping proses mining dimana atribut dgn information
gain max yang akan diproses pada fungsi miningC45()
function loopingMiningC45($inf_gain_max_atribut)
{
    $sqlBelumAdaKeputusanLagi = mysql_query("SELECT *
FROM pohon_keputusan_C45 WHERE keputusan = '?' and
diproses = 'Belum' AND atribut = '$inf_gain_max_atribut'");
    while($rowBelumAdaKeputusanLagi =
mysql_fetch_array($sqlBelumAdaKeputusanLagi)) {
        if ($rowBelumAdaKeputusanLagi['parent'] == 0) {
            populateAtribut();
        }
        $atribut = "$rowBelumAdaKeputusanLagi[atribut]";
        $nilai_atribut =
"$rowBelumAdaKeputusanLagi[nilai_atribut]";
        mysql_query("TRUNCATE mining_C45");

        hapusAtributParent($rowBelumAdaKeputusanLagi['id_pohon'
]);
        miningC45($atribut, $nilai_atribut);
        mysql_query("UPDATE pohon_keputusan_C45 SET
diproses = 'Sudah' WHERE id_pohon =
'$rowBelumAdaKeputusanLagi[id_pohon]");
    }
}

// update keputusan jika ada keputusan yg Null dan ?
function updateKeputusanUnknown()
{
    mysql_query("DELETE from pohon_keputusan_c45 where
keputusan = 'Null'");

    $sqlReplaceUnknown = mysql_query("SELECT id_pohon,
jml_kasus_tepat, jml_kasus_tidak, parent FROM
pohon_keputusan_C45 WHERE keputusan = '?' and id_pohon
not in (select parent from pohon_keputusan_C45)");
    while($rowReplaceUnknown =
mysql_fetch_array($sqlReplaceUnknown)) {

```

```

        if ($rowReplaceUnknown['jml_kasus_tidak'] >
        $rowReplaceUnknown['jml_kasus_tepat']) {
            $keputusanUnknown = 'Tepat Waktu'; // jika
            jml_kasus_tidak != 0 dan jml_kasus_tepat = 0, maka
            keputusan Tepat Waktu
            mysql_query("UPDATE pohon_keputusan_C45 SET
            keputusan = '$keputusanUnknown' WHERE id_pohon =
            $rowReplaceUnknown[id_pohon]");
        } else if ($rowReplaceUnknown['jml_kasus_tidak'] <
        $rowReplaceUnknown['jml_kasus_tepat']) {
            $keputusanUnknown = 'Tidak Tepat Waktu'; // jika
            jml_kasus_tidak = 0 dan jml_kasus_tepat != 0, maka
            keputusan Tidak Tepat Waktu
            mysql_query("UPDATE pohon_keputusan_C45 SET
            keputusan = '$keputusanUnknown' WHERE id_pohon =
            $rowReplaceUnknown[id_pohon]");
        } else if ($rowReplaceUnknown['jml_kasus_tidak'] ==
        $rowReplaceUnknown['jml_kasus_tepat']) {
            $sqlReplaceUnknownParent = mysql_query("SELECT
            jml_kasus_tepat, jml_kasus_tidak FROM
            pohon_keputusan_C45 WHERE id_pohon =
            $rowReplaceUnknown[parent]");
            $rowReplaceUnknownParent =
            mysql_fetch_array($sqlReplaceUnknownParent);
            if ($rowReplaceUnknownParent['jml_kasus_tidak'] >
            $rowReplaceUnknownParent['jml_kasus_tepat']) {
                $keputusanUnknown = 'Tepat Waktu'; // jika
                jml_kasus_tidak != 0 dan jml_kasus_tepat = 0, maka
                keputusan Tepat Waktu
            } else if
            ($rowReplaceUnknownParent['jml_kasus_tidak'] <
            $rowReplaceUnknownParent['jml_kasus_tepat']) {
                $keputusanUnknown = 'Tidak Tepat Waktu'; // jika
                jml_kasus_tidak = 0 dan jml_kasus_tepat != 0, maka
                keputusan Tidak Tepat Waktu
            }
            mysql_query("UPDATE pohon_keputusan_C45 SET
            keputusan = '$keputusanUnknown' WHERE id_pohon =
            $rowReplaceUnknown[id_pohon]");
        }
    }
}

function generateRuleAwal($parent, $spasi)
{
    // ambil data pohon keputusan
    $sqlGetParent = mysql_query("select * from
    pohon_keputusan_C45 where parent=$parent");
    while($rowGetParent =
    mysql_fetch_array($sqlGetParent)){
        if (!empty($rowGetParent)) {
            // ambil data pohon keputusan dimana id_pohon =
            parent
            $sqlGetId = mysql_query("select * from
            pohon_keputusan_C45 where
            id_pohon=$rowGetParent[parent]");
            $rowGetId = mysql_fetch_array($sqlGetId);
            // jika atribut dan nilai atribut masih kosong
            if (empty($rowGetId['atribut']) AND
            empty($rowGetId['nilai_atribut'])){
                // insert pada db rule_C45
                mysql_query("insert into rule_C45 values (',
                $rowGetParent[parent]', $rowGetParent[atribut] ==
                $rowGetParent[nilai_atribut]', $rowGetParent[keputusan]");
            } else {
                // insert pada db rule_C45
                mysql_query("insert into rule_C45 values (',
                $rowGetParent[parent]', $rowGetId[atribut] ==
                $rowGetId[nilai_atribut] AND $rowGetParent[atribut] ==
                $rowGetParent[nilai_atribut]', $rowGetParent[keputusan]");
            }
        }
    }
}

function generateRuleLooping()
{
    // ambil data rule
    $sqlGetDataRule = mysql_query("select * from rule_C45
    order by id_rule");

    while($rowGetDataRule=mysql_fetch_array($sqlGetDataRule
    )){
        if (!empty($rowGetDataRule)) {
            // ambil parent rule dimana id_pohon = parent
            $sqlGetParentUpdateRule = mysql_query("select
            parent from pohon_keputusan_C45 where id_pohon =
            $rowGetDataRule[parent]");

            $rowGetParentUpdateRule=mysql_fetch_array($sqlGetParent
            UpdateRule);

            $sqlGetIdUpdateRule = mysql_query("select * from
            pohon_keputusan_C45 where id_pohon =
            $rowGetParentUpdateRule[parent]");

            while($rowGetIdUpdateRule=mysql_fetch_array($sqlGetIdUp
            dateRule)){
                // bentuk rule
                $rule = "$rowGetIdUpdateRule[atribut] ==
                $rowGetIdUpdateRule[nilai_atribut] AND
                $rowGetDataRule[rule]";
                // update rule
                mysql_query("update rule_C45 set rule = '$rule',
                parent = $rowGetParentUpdateRule[parent] where id_rule =
                $rowGetDataRule[id_rule]");
            }

            // ambil data pohon dimana Parent = 0 (root)
            $sqlGetDataPohonKeputusan = mysql_query("select *
            from pohon_keputusan_C45 where parent = 0");

            while($rowGetDataPohonKeputusan=mysql_fetch_array($sql
            GetDataPohonKeputusan)){
                // jika Parent rule == id pohon
                if ($rowGetDataRule['parent'] ==
                $rowGetDataPohonKeputusan['id_pohon']){
                    // update rule set id = id rule
                    mysql_query("update rule_C45 set parent = 0
                    where id_rule = $rowGetDataRule[id_rule]");
                }
            }
        }
    }
}

```

```

function generateRuleFinal()
{
    // panggil fungsi generateRuleAwal()
    generateRuleAwal("0", 0);

    // ambil data rule
    $sqlUpdateRule = mysql_query("select * from rule_C45
order by id_rule" );

while($rowUpdateRule=mysql_fetch_array($sqlUpdateRule))
{
    if (!empty($rowUpdateRule)) {
        // jika Parent rule == 0
        if ($rowUpdateRule['parent'] != 0){
            // lakukan fungsi generateRuleLooping()
            generateRuleLooping();
            // delete rule dimana keputusan == ?
            mysql_query("delete from rule_C45 where
keputusan = '?'");
        }
    }
}
}
}

```

```

function insertRuleC45()
{
    // ambil data pada db rule_C45
    $sqlRuleC45 = mysql_query("SELECT id_rule, rule,
keputusan FROM rule_C45");
    while($rowRuleC45 = mysql_fetch_array($sqlRuleC45)) {
        $RuleC45 = "$rowRuleC45[rule]";
        // explode string ' AND ' utk mendapatkan atribut
        $explodeRuleC45 = explode(" AND ", $RuleC45);
        foreach ($explodeRuleC45 as $dataExplodeRuleC45) {
            // explode string '=' utk mendapatkan nilai atribut
            $dataFixRuleC45 = explode(" == ",
            $dataExplodeRuleC45);
            // insert into db
            mysql_query("INSERT INTO rule_keputusan_utama
VALUES(", $rowRuleC45[id_rule], '$dataFixRuleC45[0]',
'$dataFixRuleC45[1]', '$rowRuleC45[keputusan]', ", 'C45'");
        }
    }
}

```

20. testing_C45.php

```

<?php
include "../koneksi/koneksi.php";
mysql_query("TRUNCATE data_keputusan_testing");

$rrayPerbandingan = array(); // buat array baru
// ambil data survey
$sqlDataTesting = mysql_query("SELECT * FROM
data_testing");
while($rowDataTesting =
mysql_fetch_array($sqlDataTesting)) {
    if (!empty($rowDataTesting)) {
        // masukkan tiap nilai atribut data survey pada
array
        $rray['npm'] = $rowDataTesting['npm'];
        $rray['nama'] = $rowDataTesting['nama'];
        $rray['jenis_kelamin'] =
        $rowDataTesting['jenis_kelamin'];

```

```

        $rray['asal_sekolah'] =
        $rowDataTesting['asal_sekolah'];
        $rray['kota'] = $rowDataTesting['kota'];
        $rray['pekerjaan_orang_tua'] =
        $rowDataTesting['pekerjaan_orang_tua'];
        $rray['jalur_masuk'] =
        $rowDataTesting['jalur_masuk'];
        $rray['kelas'] = $rowDataTesting['kelas'];
        $rray['ips1'] = $rowDataTesting['ips1'];
        $rrayPerbandingan[] = $rray;
    }
}
foreach ($rrayPerbandingan as $atribut) {
    // ambil atribut dan panggil fungsi KeputusanUtama()
    KeputusanUtama($atribut);
}

```

```

function KeputusanUtama($atribut) {
    mysql_query("TRUNCATE data_keputusan_utama");

```

```

    // buat variabel baru dan masukkan masing-masing atribut
    $npm = $atribut['npm'];
    $nama = $atribut['nama'];
    $jenis_kelamin = $atribut['jenis_kelamin'];
    $asal_sekolah = $atribut['asal_sekolah'];
    $kota = $atribut['kota'];
    $pekerjaan_orang_tua = $atribut['pekerjaan_orang_tua'];
    $jalur_masuk = $atribut['jalur_masuk'];
    $kelas = $atribut['kelas'];
    $sips1 = $atribut['ips1'];

```

```

    // masukkan variabel pada array
    $rray2 = array("jenis_kelamin" => "$jenis_kelamin",
        "asal_sekolah" => "$asal_sekolah",
        "kota" => "$kota",
        "pekerjaan_orang_tua" => "$pekerjaan_orang_tua",
        "jalur_masuk" => "$jalur_masuk",
        "kelas" => "$kelas",
        "ips1" => "$sips1"
    );

```

```

    // ambil atribut yang ada di pohon
    $sqlSelectDistinctAtribut = mysql_query("SELECT distinct
atribut FROM pohon_keputusan_c45");
    while($rowSelectDistinctAtribut =
mysql_fetch_array($sqlSelectDistinctAtribut)) {
        if (!empty($rowSelectDistinctAtribut)) {
            foreach ($rray2 as $atribut_array =>
            $nilai_atribut_array) {
                // jika atribut pada pohon
                sama dgn atribut yg ada di array (atribut yg di post-kan) maka
                insert atribut dan nilai atribut pada db
                if
                ($rowSelectDistinctAtribut['atribut'] == $atribut_array) {
                    mysql_query("INSERT INTO data_keputusan_utama
VALUES(", '$atribut_array', '$nilai_atribut_array');
                }
            }
        }
    }
}

```

```

$rrayKeputusanUtama = array(); // buat array baru

```

```

// ambil atribut dan nilai atribut pada db data keputusan
utama
$sqlDataKeputusanUtama = mysql_query("SELECT *
FROM data_keputusan_utama");
while($rowDataKeputusanUtama =
mysql_fetch_array($sqlDataKeputusanUtama)) {
    $sqlRuleKeputusanUtama =
mysql_query("SELECT * FROM rule_keputusan_utama
where pohon = 'C45'");
    while($rowRuleKeputusanUtama =
mysql_fetch_array($sqlRuleKeputusanUtama)) {
        if
(!empty($rowRuleKeputusanUtama)) {
            // jika atribut pada db
data_keputusan_utama sama dengan atribut pada db
rule_keputusan_utama
                if
($rowRuleKeputusanUtama['atribut'] ==
$rowDataKeputusanUtama['atribut']) {
                    // jika nilai
atribut pada db data_keputusan_utama sama dengan nilai
atribut pada db rule_keputusan_utama
                        if
($rowRuleKeputusanUtama['nilai_atribut'] ==
$rowDataKeputusanUtama['nilai_atribut']) {
                            // set
nilai id, cocok dan masukkan pada array
                                $arrayKeputusanUtamaTemp['id_rule_keputusan'] =
$rowRuleKeputusanUtama['id_rule_keputusan'];
                                $arrayKeputusanUtamaTemp['cocok'] = "Ya";
                                $arrayKeputusanUtama[] = $arrayKeputusanUtamaTemp;
                                } elseif
($rowRuleKeputusanUtama['nilai_atribut'] !=
$rowDataKeputusanUtama['nilai_atribut']) {
                                    // set
nilai id, cocok dan masukkan pada array
                                        $arrayKeputusanUtamaTemp['id_rule_keputusan'] =
$rowRuleKeputusanUtama['id_rule_keputusan'];
                                        $arrayKeputusanUtamaTemp['cocok'] = "Tidak";
                                        $arrayKeputusanUtama[] = $arrayKeputusanUtamaTemp;
                                        }
                                }
                            }
                    }
                }
            }
        }
    }
}

foreach ($arrayKeputusanUtama as
$arrayKeputusanUtamaUpdate) {
    // update nilai cocok dari array sebelumnya
    mysql_query("UPDATE rule_keputusan_utama
SET cocok = '$arrayKeputusanUtamaUpdate[cocok]' where
id_rule_keputusan =
$arrayKeputusanUtamaUpdate[id_rule_keputusan]");
}

// queri utk mengambil keputusan dan id rule berdasarkan
nilai atribut yg cocok (nilai atribut rule == nilai atribut yg
dipost-kan)

```

```

$sqlKeputusan = mysql_query("SELECT distinct id_rule,
keputusan FROM `rule_keputusan_utama` WHERE pohon =
'C45' AND cocok = 'Ya' and id_rule not in (select distinct
id_rule from `rule_keputusan_utama` where pohon = 'C45'
AND cocok = 'Tidak')");
$rowKeputusan = mysql_fetch_array($sqlKeputusan);
if (!empty($rowKeputusan)) {
    $keputusan = $rowKeputusan[keputusan];
    $idRule = $rowKeputusan[id_rule];
    $result1=mysql_query("SELECT hasil FROM
data_training where npm='$npm'");
    $row1=mysql_fetch_array($result1);

    // insert data keputusan pada db
    mysql_query("INSERT INTO
data_keputusan_testing VALUES(",
        '$npm',
        '$nama',
        '$jenis_kelamin',
        '$asal_sekolah',
        '$kota',
        '$pekerjaan_orang_tua',
        '$jalur_masuk',
        '$kelas',
        '$sips1',
        '$row1[hasil]',
        '$keputusan',
        '$idRule'
    );
}
}

21. upload_testing_csv.php
<?php
include "../koneksi/koneksi.php";
if(isset($_POST['import']))
{
    if ($_FILES['csv']['size'] > 0) {
        //get the csv file
        $file = $_FILES['csv']['tmp_name'];
        $handle = fopen($file,"r");
        $data = fgetcsv($handle,1000,",","");

        //loop through the csv file and insert into database
        mysql_query("TRUNCATE data_testing");
        do {
            if($data[0])
            {
                mysql_query("INSERT INTO data_testing
VALUES
                (
                    ",
                    "'.addslashes($data[0])."',
                    "'.addslashes($data[1])."',
                    "'.addslashes($data[2])."',
                    "'.addslashes($data[3])."',
                    "'.addslashes($data[4])."',
                    "'.addslashes($data[5])."',
                    "'.addslashes($data[6])."',
                    "'.addslashes($data[7])."',
                    "'.addslashes($data[8]).'"
                )
            }
        } while($data = fgetcsv($handle,1000,",",""));
    }
}

```

```

    )
    ");
}
} while ($data = fgetcsv($handle,1000,"",""));
//
// include "modul/transformasi_data.php";
//redirect
echo "<script>alert('Data berhasil diinput!');
document.location.href='../data_testing.php';</script>\n";
}
}

```

22. upload_training_csv.php

```

<?php
include "../koneksi/koneksi.php";
if(isset($_POST['Import']))
{
    if ($_FILES['csv']['size'] > 0) {

        //get the csv file
        $file = $_FILES['csv']['tmp_name'];
        $handle = fopen($file,"r");
        $data = fgetcsv($handle,1000,"","");

        //loop through the csv file and insert into database
        mysql_query("TRUNCATE data_training");
        do {
            if($data[0])
            {
                mysql_query("INSERT INTO data_training VALUES
                (
                    ",
                    "'.addslashes($data[0]).'",
                    "'.addslashes($data[1]).'",
                    "'.addslashes($data[2]).'",
                    "'.addslashes($data[3]).'",
                    "'.addslashes($data[4]).'",
                    "'.addslashes($data[5]).'",
                    "'.addslashes($data[6]).'",
                    "'.addslashes($data[7]).'",
                    "'.addslashes($data[8]).'",
                    "'.addslashes($data[9]).'"
                )
            );
        } while ($data = fgetcsv($handle,1000,"",""));

        echo "<script>alert('Data berhasil diinput!');
document.location.href='../data_training.php';</script>\n";
    }
}

```

23. form_testing.php

```

<?php
function viewForm($atribut, $atributx) {
    echo "
        <div class='form-group'>
            <label for='Name' class='col-sm-2
control-label'><b>$atributx</b></label>
            <div class='col-sm-4'>

```

```

                <input class='form-control'
id='Name' maxlength='10' name='$atribut' type='text'
placeholder=" required">
            </div>
        </div>";
    }

```

```

function viewForm1($atribut, $atributx) {
    echo "
        <div class='form-group'>
            <label for='Name' class='col-sm-2
control-label'><b>$atributx</b></label>
            <div class='col-sm-4'>
                <input class='form-control'
id='Name' name='$atribut' type='text' placeholder=" required">
            </div>
        </div>";
    }

```

```

function viewFormSelect($atribut, $atributx) {
    echo "
        <div class='form-group'>
            <label for='contact-message'
class='col-sm-2 control-label'><b>$atributx</b></label>
            <div class='col-sm-3'>
                <select name='$atribut'
class='form-control' id='contact-message' type='text'
placeholder=" required">
                    echo "<option
value='>";
                        $sqlData1 =
mysql_query("SELECT * FROM atribut where atribut =
'$atribut'");
                        while($rowData1 = mysql_fetch_array($sqlData1)) {
                            echo
"
                            <option
value='$rowData1[nilai_atribut]'>$rowData1[nilai_atribut];
                            }
                            echo "</option>
                        </select>
                    </div>";
                </div>
            </div>";
    }
}

```

```

viewForm('npm', 'npm');
viewForm1('nama', 'nama');
viewFormSelect('jenis_kelamin', 'jenis kelamin');
viewFormSelect('asal_sekolah', 'asal sekolah');
viewFormSelect('kota', 'kota');
viewFormSelect('pekerjaan_orang_tua', 'pekerjaan orang tua');
viewFormSelect('jalur_masuk', 'jalur masuk');
viewFormSelect('kelas', 'kelas');
viewFormSelect('ips1', 'ips1');
?>

```

24. form_training.php

```

<?php
function viewForm($atribut, $atributx) {
    echo "
        <div class='form-group'>
            <label for='Name' class='col-sm-2
control-label'><b>$atributx</b></label>

```



```

class='btn-primary btn-sm glyphicon glyphicon-edit' title='Edit
Data' ></a>
    <a
href=../proses.php?module=data_training&act=hapus_data_train
ing&id_training=$row[id_training] class='btn-primary btn-
danger btn-sm glyphicon glyphicon-trash' title='Hapus Data'
onClick='\"return confirm('Anda Yakin Akan
Menghapus?')\"></a>
    </td>
</tr>;
}

echo "</table>";
echo "</div>";
?>

```

27. forhome.css

```

/*main menu*/
.home-menu a{
text-decoration: none;
color: #666;
-webkit-transition-duration:0.1s;
-moz-transition-duration:0.1s;
-o-transition-duration:0.1s;
border-radius: 5px;
}
.home-menu a:hover{
text-decoration: none;
box-shadow: 0px 0px 10px #DDD;
}
.box{
background: white;
border: 1px solid #DDD;
border-radius: 5px;
padding: 15px;
min-height: 320px !important;
}
.box:hover{
background-image:
url("../images/header_background.png");
}
.box h4{
padding: 10px;
background: #08C;
margin-left: -15px;
margin-right: -15px;
color: #F5F5F5;
}
.box.masyarakat h4{
background: #963;
}
.box.sekolah h4{
background: #0C0;
}
.box.siswa h4{
background: #08C;
}
.box.mahasiswa h4{
background: #F90;
}
/*!
* Bootstrap Responsive v2.3.2
*

```

```

* Copyright 2012 Twitter, Inc
* Licensed under the Apache License v2.0
* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter
by @mdo and @fat.

```

```

*/.clearfix{*zoom:1}.clearfix:before,.clearfix:after{display:tab
le;line-height:0;content:""}.clearfix:after{clear:both}.hide-
text{font:0/0 a;color:transparent;text-
shadow:none;background-color:transparent;border:0}.input-
block-level{display:block;width:100%;min-height:30px;-
webkit-box-sizing:border-box;-moz-box-sizing:border-
box;box-sizing:border-box}@-ms-viewport{width:device-
width}.hidden{display:none;visibility:hidden}.visible-
phone{display:none!important}.visible-
tablet{display:none!important}.hidden-
desktop{display:none!important}@media(min-width:768px)
and(max-width:979px){.hidden-
desktop{display:inherit!important}.visible-
desktop{display:none!important}.visible-
tablet{display:inherit!important}.hidden-
tablet{display:none!important}@media(max-
width:767px){.hidden-
desktop{display:inherit!important}.visible-
desktop{display:none!important}.visible-
phone{display:inherit!important}.hidden-
phone{display:none!important}.visible-
print{display:none!important}@media print{.visible-
print{display:inherit!important}.hidden-
print{display:none!important}@media(min-
width:1200px){.row{margin-left:-
30px;*zoom:1}.row:before,.row:after{display:table;line-
height:0;content:""}.row:after{clear:both}[class*="span"]{flo
at:left;min-height:1px;margin-left:30px}.container,.navbar-
static-top .container,.navbar-fixed-top .container,.navbar-
fixed-bottom
.container{width:1170px}.span12{width:1170px}.span11{wid
th:1070px}.span10{width:970px}.span9{width:870px}.span8
{width:770px}.span7{width:670px}.span6{width:570px}.spa
n5{width:470px}.span4{width:370px}.span3{width:270px}.s
pan2{width:170px}.span1{width:70px}.offset12{margin-
left:1230px}.offset11{margin-left:1130px}.offset10{margin-
left:1030px}.offset9{margin-left:930px}.offset8{margin-
left:830px}.offset7{margin-left:730px}.offset6{margin-
left:630px}.offset5{margin-left:530px}.offset4{margin-
left:430px}.offset3{margin-left:330px}.offset2{margin-
left:230px}.offset1{margin-left:130px}.row-
fluid{width:100%;*zoom:1}.row-fluid:before,.row-
fluid:after{display:table;line-height:0;content:""}.row-
fluid:after{clear:both}.row-fluid
[class*="span"]{display:block;float:left;width:100%;min-
height:30px;margin-left:2.564102564102564%*margin-
left:2.5109110747408616%;-webkit-box-sizing:border-box;-
moz-box-sizing:border-box;box-sizing:border-box}.row-fluid
[class*="span"]:first-child{margin-left:0}.row-fluid .controls-
row [class*="span"]+[class*="span"]{margin-
left:2.564102564102564%}.row-fluid
.span12{width:100%;*width:99.94680851063829%}.row-
fluid
.span11{width:91.45299145299145%*width:91.3997999636
2975%}.row-fluid
.span10{width:82.90598290598291%*width:82.8527914166

```

212% }.row-fluid
.span9{ width:74.35897435897436%;*width:74.30578286961266% }.row-fluid
.span8{ width:65.81196581196582%;*width:65.75877432260411% }.row-fluid
.span7{ width:57.26495726495726%;*width:57.21176577559556% }.row-fluid
.span6{ width:48.717948717948715%;*width:48.664757228587014% }.row-fluid
.span5{ width:40.17094017094017%;*width:40.11774868157847% }.row-fluid
.span4{ width:31.623931623931625%;*width:31.570740134569924% }.row-fluid
.span3{ width:23.076923076923077%;*width:23.023731587561375% }.row-fluid
.span2{ width:14.52991452991453%;*width:14.476723040552828% }.row-fluid
.span1{ width:5.982905982905983%;*width:5.929714493544281% }.row-fluid .offset12{ margin-left:105.12820512820512%;*margin-left:105.02182214948171% }.row-fluid .offset12:first-child{ margin-left:102.56410256410257%;*margin-left:102.45771958537915% }.row-fluid .offset11{ margin-left:96.58119658119658%;*margin-left:96.47481360247316% }.row-fluid .offset11:first-child{ margin-left:94.01709401709402%;*margin-left:93.91071103837061% }.row-fluid .offset10{ margin-left:88.03418803418803%;*margin-left:87.92780550546462% }.row-fluid .offset10:first-child{ margin-left:85.47008547008548%;*margin-left:85.36370249136206% }.row-fluid .offset9{ margin-left:79.48717948717949%;*margin-left:79.38079650845607% }.row-fluid .offset9:first-child{ margin-left:76.92307692307693%;*margin-left:76.81669394435352% }.row-fluid .offset8{ margin-left:70.94017094017094%;*margin-left:70.83378796144753% }.row-fluid .offset8:first-child{ margin-left:68.37606837606839%;*margin-left:68.26968539734497% }.row-fluid .offset7{ margin-left:62.393162393162385%;*margin-left:62.28677941443899% }.row-fluid .offset7:first-child{ margin-left:59.82905982905982%;*margin-left:59.72267685033642% }.row-fluid .offset6{ margin-left:53.84615384615384%;*margin-left:53.739770867430444% }.row-fluid .offset6:first-child{ margin-left:51.28205128205128%;*margin-left:51.175668303327875% }.row-fluid .offset5{ margin-left:45.299145299145295%;*margin-left:45.1927623204219% }.row-fluid .offset5:first-child{ margin-left:42.73504273504273%;*margin-left:42.62865975631933% }.row-fluid .offset4{ margin-left:36.75213675213675%;*margin-left:36.645753773413354% }.row-fluid .offset4:first-child{ margin-left:34.18803418803419%;*margin-left:34.081651209310785% }.row-fluid .offset3{ margin-left:28.205128205128204%;*margin-left:28.0987452264048% }.row-fluid .offset3:first-child{ margin-left:25.641025641025642%;*margin-left:25.53464266230224% }.row-fluid .offset2{ margin-left:19.65811965811966%;*margin-left:19.551736679396257% }.row-fluid .offset2:first-child{ margin-left:17.094017094017094%;*margin-left:16.98763411529369% }.row-fluid .offset1{ margin-left:11.11111111111111%;*margin-

left:11.004728132387708% }.row-fluid .offset1:first-child{ margin-left:8.547008547008547%;*margin-left:8.440625568285142% }input,textarea,uneditable-input{ margin-left:0 }.controls-row [class*="span"]+[class*="span"]{ margin-left:30px }input.span12,textarea.span12,uneditable-input.span12{ width:1156px }input.span11,textarea.span11,uneditable-input.span11{ width:1056px }input.span10,textarea.span10,uneditable-input.span10{ width:956px }input.span9,textarea.span9,uneditable-input.span9{ width:856px }input.span8,textarea.span8,uneditable-input.span8{ width:756px }input.span7,textarea.span7,uneditable-input.span7{ width:656px }input.span6,textarea.span6,uneditable-input.span6{ width:556px }input.span5,textarea.span5,uneditable-input.span5{ width:456px }input.span4,textarea.span4,uneditable-input.span4{ width:356px }input.span3,textarea.span3,uneditable-input.span3{ width:256px }input.span2,textarea.span2,uneditable-input.span2{ width:156px }input.span1,textarea.span1,uneditable-input.span1{ width:56px }.thumbnails{ margin-left:-30px }.thumbnails>li{ margin-left:30px }.row-fluid .thumbnails{ margin-left:0 } @media(min-width:768px) and (max-width:979px){ .row{ margin-left:-20px;*zoom:1 }.row:before,.row:after{ display:table;line-height:0;content:"" }.row:after{ clear:both }[class*="span"]{ float:left;min-height:1px;margin-left:20px }.container,.navbar-fixed-top .container,.navbar-fixed-top .container,.navbar-fixed-bottom .container{ width:724px }.span12{ width:724px }.span11{ width:662px }.span10{ width:600px }.span9{ width:538px }.span8{ width:476px }.span7{ width:414px }.span6{ width:352px }.span5{ width:290px }.span4{ width:228px }.span3{ width:166px }.span2{ width:104px }.span1{ width:42px }.offset12{ margin-left:764px }.offset11{ margin-left:702px }.offset10{ margin-left:640px }.offset9{ margin-left:578px }.offset8{ margin-left:516px }.offset7{ margin-left:454px }.offset6{ margin-left:392px }.offset5{ margin-left:330px }.offset4{ margin-left:268px }.offset3{ margin-left:206px }.offset2{ margin-left:144px }.offset1{ margin-left:82px }.row-fluid{ width:100%;*zoom:1 }.row-fluid:before,.row-fluid:after{ display:table;line-height:0;content:"" }.row-fluid:after{ clear:both }.row-fluid [class*="span"]{ display:block;float:left;width:100%;min-height:30px;margin-left:2.7624309392265194%;*margin-left:2.709239449864817%;-webkit-box-sizing:border-box;-moz-box-sizing:border-box;box-sizing:border-box }.row-fluid [class*="span"]:first-child{ margin-left:0 }.row-fluid .controls-row [class*="span"]+[class*="span"]{ margin-left:2.7624309392265194% }.row-fluid .span12{ width:100%;*width:99.94680851063829% }.row-fluid .span11{ width:91.43646408839778%;*width:91.38327259903608% }.row-fluid .span10{ width:82.87292817679558%;*width:82.81973668743387% }.row-fluid .span9{ width:74.30939226519337%;*width:74.25620077583

166% }.row-fluid
.span8{ width:65.74585635359117%;*width:65.69266486422
946% }.row-fluid
.span7{ width:57.18232044198895%;*width:57.12912895262
725% }.row-fluid
.span6{ width:48.61878453038674%;*width:48.56559304102
504% }.row-fluid
.span5{ width:40.05524861878453%;*width:40.00205712942
283% }.row-fluid
.span4{ width:31.491712707182323%;*width:31.4385212178
2062% }.row-fluid
.span3{ width:22.92817679558011%;*width:22.87498530621
841% }.row-fluid
.span2{ width:14.3646408839779%;*width:14.311449394616
199% }.row-fluid
.span1{ width:5.801104972375691%;*width:5.747913483013
988% }.row-fluid .offset12{ margin-
left:105.52486187845304%;*margin-
left:105.41847889972962% }.row-fluid .offset12:frist-
child{ margin-left:102.76243093922652%;*margin-
left:102.6560479605031% }.row-fluid .offset11{ margin-
left:96.96132596685082%;*margin-
left:96.8549429881274% }.row-fluid .offset11:frist-
child{ margin-left:94.1988950276243%;*margin-
left:94.09251204890089% }.row-fluid .offset10{ margin-
left:88.39779005524862%;*margin-
left:88.2914070765252% }.row-fluid .offset10:frist-
child{ margin-left:85.6353591160221%;*margin-
left:85.52897613729868% }.row-fluid .offset9{ margin-
left:79.8342541436464%;*margin-
left:79.72787116492299% }.row-fluid .offset9:frist-
child{ margin-left:77.07182320441989%;*margin-
left:76.96544022569647% }.row-fluid .offset8{ margin-
left:71.2707182320442%;*margin-
left:71.16433525332079% }.row-fluid .offset8:frist-
child{ margin-left:68.50828729281768%;*margin-
left:68.40190431409427% }.row-fluid .offset7{ margin-
left:62.70718232044199%;*margin-
left:62.600799341718584% }.row-fluid .offset7:frist-
child{ margin-left:59.94475138121547%;*margin-
left:59.838368402492065% }.row-fluid .offset6{ margin-
left:54.14364640883978%;*margin-
left:54.037263430116376% }.row-fluid .offset6:frist-
child{ margin-left:51.38121546961326%;*margin-
left:51.27483249088986% }.row-fluid .offset5{ margin-
left:45.58011049723757%;*margin-
left:45.47372751851417% }.row-fluid .offset5:frist-
child{ margin-left:42.81767955801105%;*margin-
left:42.71129657928765% }.row-fluid .offset4{ margin-
left:37.01657458563536%;*margin-
left:36.91019160691196% }.row-fluid .offset4:frist-
child{ margin-left:34.25414364640884%;*margin-
left:34.14776066768544% }.row-fluid .offset3{ margin-
left:28.45303867403315%;*margin-
left:28.346655695309746% }.row-fluid .offset3:frist-
child{ margin-left:25.69060773480663%;*margin-
left:25.584224756083227% }.row-fluid .offset2{ margin-
left:19.88950276243094%;*margin-
left:19.783119783707537% }.row-fluid .offset2:frist-
child{ margin-left:17.12707182320442%;*margin-
left:17.02068884448102% }.row-fluid .offset1{ margin-
left:11.32596685082873%;*margin-
left:11.219583872105325% }.row-fluid .offset1:frist-
child{ margin-left:8.56353591160221%;*margin-

left:8.457152932878806% }input,textarea,.uneditable-
input{ margin-left:0 }.controls-row
[class*="span"]+[class*="span"]{ margin-
left:20px }input.span12,textarea.span12,.uneditable-
input.span12{ width:710px }input.span11,textarea.span11,.uned-
itable-
input.span11{ width:648px }input.span10,textarea.span10,.uned-
itable-
input.span10{ width:586px }input.span9,textarea.span9,.unedita-
ble-
input.span9{ width:524px }input.span8,textarea.span8,.uneditab-
le-
input.span8{ width:462px }input.span7,textarea.span7,.uneditab-
le-
input.span7{ width:400px }input.span6,textarea.span6,.uneditab-
le-
input.span6{ width:338px }input.span5,textarea.span5,.uneditab-
le-
input.span5{ width:276px }input.span4,textarea.span4,.uneditab-
le-
input.span4{ width:214px }input.span3,textarea.span3,.uneditab-
le-
input.span3{ width:152px }input.span2,textarea.span2,.uneditab-
le-
input.span2{ width:90px }input.span1,textarea.span1,.uneditabl-
e-input.span1{ width:28px } @media(max-
width:767px){ body{ padding-right:20px;padding-
left:20px }.navbar-fixed-top,.navbar-fixed-bottom,.navbar-
static-top{ margin-right:-20px;margin-left:-20px }.container-
fluid{ padding:0 }.dl-horizontal
dt{ float:none;width:auto;clear:none;text-align:left }.dl-
horizontal dd{ margin-left:0 }.container{ width:auto }.row-
fluid{ width:100% }.row..thumbnails{ margin-
left:0 }.thumbnails>li{ float:none;margin-
left:0 }[class*="span"],.uneditable-input[class*="span"],.row-
fluid
[class*="span"]{ display:block;float:none;width:100%;margin-
left:0;-webkit-box-sizing:border-box;-moz-box-sizing:border-
box;box-sizing:border-box }.span12,.row-fluid
.span12{ width:100%;-webkit-box-sizing:border-box;-moz-
box-sizing:border-box;box-sizing:border-box }.row-fluid
[class*="offset"]:frist-child{ margin-left:0 }.input-large,.input-
xlarge,.input-
xxlarge,input[class*="span"],select[class*="span"],textarea[cl-
ass*="span"],.uneditable-
input{ display:block;width:100%;min-height:30px;-webkit-
box-sizing:border-box;-moz-box-sizing:border-box;box-
sizing:border-box }.input-prepend input,.input-append
input,.input-prepend input[class*="span"],.input-append
input[class*="span"]{ display:inline-
block;width:auto }.controls-row
[class*="span"]+[class*="span"]{ margin-
left:0 }.modal{ position:fixed;top:20px;right:20px;left:20px;wi-
dth:auto;margin:0 }.modal.fade{ top:-
100px }.modal.fade.in{ top:20px } @media(max-
width:480px){ .nav-collapse{-webkit-
transform:translate3d(0,0,0)}.page-header h1
small{ display:block;line-
height:20px }input[type="checkbox"],input[type="radio"]{ bor-
der:1px solid #ccc }.form-horizontal .control-
label{ float:none;width:auto;padding-top:0;text-
align:left }.form-horizontal .controls{ margin-left:0 }.form-
horizontal .control-list{ padding-top:0 }.form-horizontal .form-
actions{ padding-right:10px;padding-left:10px }.media .pull-

```

left,.media .pull-right{display:block;float:none;margin-
bottom:10px}.media-object{margin-right:0;margin-
left:0}.modal{top:10px;right:10px;left:10px}.modal-header
.close{padding:10px;margin:-10px}.carousel-
caption{position:static}@media(max-
width:979px){body{padding-top:0}.navbar-fixed-top,.navbar-
fixed-bottom{position:static}.navbar-fixed-top{margin-
bottom:20px}.navbar-fixed-bottom{margin-top:20px}.navbar-
fixed-top .navbar-inner,.navbar-fixed-bottom .navbar-
inner{padding:5px}.navbar
.container{width:auto;padding:0}.navbar .brand{padding-
right:10px;padding-left:10px;margin:0 0 0 -5px}.nav-
collapse{clear:both}.nav-collapse .nav{float:none;margin:0 0
10px}.nav-collapse .nav>li{float:none}.nav-collapse
.nav>li>a{margin-bottom:2px}.nav-collapse .nav>.divider-
vertical{display:none}.nav-collapse .nav .nav-
header{color:#777;text-shadow:none}.nav-collapse
.nav>li>a,.nav-collapse .dropdown-menu a{padding:9px
15px;font-weight:bold;color:#777;-webkit-border-radius:3px;-
moz-border-radius:3px;border-radius:3px}.nav-collapse
.btn{padding:4px 10px 4px;font-weight:normal;-webkit-
border-radius:4px;-moz-border-radius:4px;border-
radius:4px}.nav-collapse .dropdown-menu li+li a{margin-
bottom:2px}.nav-collapse .nav>li>a: hover,.nav-collapse
.nav>li>a:focus,.nav-collapse .dropdown-menu a: hover,.nav-
collapse .dropdown-menu a:focus{background-
color:#f2f2f2}.navbar-inverse .nav-collapse .nav>li>a,.navbar-
inverse .nav-collapse .dropdown-menu a{color:#999}.navbar-
inverse .nav-collapse .nav>li>a: hover,.navbar-inverse .nav-
collapse .nav>li>a:focus,.navbar-inverse .nav-collapse
.dropdown-menu a: hover,.navbar-inverse .nav-collapse
.dropdown-menu a:focus{background-color:#111}.nav-

```

```

collapse.in .btn-group{padding:0;margin-top:5px}.nav-
collapse .dropdown-
menu{position:static;top:auto;left:auto;display:none;float:none
;max-width:none;padding:0;margin:0 15px;background-
color:transparent;border:0;-webkit-border-radius:0;-moz-
border-radius:0;border-radius:0;-webkit-box-shadow:none;-
moz-box-shadow:none;box-shadow:none}.nav-collapse
.open>.dropdown-menu{display:block}.nav-collapse
.dropdown-menu:before,.nav-collapse .dropdown-
menu:after{display:none}.nav-collapse .dropdown-menu
.divider{display:none}.nav-collapse .nav>li>.dropdown-
menu:before,.nav-collapse .nav>li>.dropdown-
menu:after{display:none}.nav-collapse .navbar-form,.nav-
collapse .navbar-search{float:none;padding:10px
15px;margin:10px 0;border-top:1px solid #f2f2f2;border-
bottom:1px solid #f2f2f2;-webkit-box-shadow:inset 0 1px 0
rgba(255,255,255,0.1);0 1px 0 rgba(255,255,255,0.1);-moz-
box-shadow:inset 0 1px 0 rgba(255,255,255,0.1);0 1px 0
rgba(255,255,255,0.1);box-shadow:inset 0 1px 0
rgba(255,255,255,0.1);0 1px 0 rgba(255,255,255,0.1)}.navbar-
inverse .nav-collapse .navbar-form,.navbar-inverse .nav-
collapse .navbar-search{border-top-color:#111;border-bottom-
color:#111}.navbar .nav-collapse .nav.pull-
right{float:none;margin-left:0}.nav-collapse .nav-
collapse.collapse{height:0;overflow:hidden}.navbar .btn-
navbar{display:block}.navbar-static .navbar-inner{padding-
right:10px;padding-left:10px}@media(min-
width:980px){.nav-
collapse.collapse{height:auto!important;overflow:visible!impo-
rtant}}

```