**Listing Program**

**MODUL KONEKSI**

<?php

$koneksi = mysqli\_connect("localhost","root","","spk\_aras\_native");

if (mysqli\_connect\_errno()){

echo "Koneksi database gagal : " . mysqli\_connect\_error();}

?>

**FORM LOGIN**

<?php require\_once('includes/init.php'); ?>

<?php

$errors = array();

$username = isset($\_POST['username']) ? trim($\_POST['username']) : '';

$password = isset($\_POST['username']) ? trim($\_POST['password']) : '';

if(isset($\_POST['submit'])):

// Validasi

if(!$username) {

$errors[] = 'Username tidak boleh kosong'; }

if(!$password) {

$errors[] = 'Password tidak boleh kosong'; }

if(empty($errors)):

$query = mysqli\_query($koneksi,"SELECT \* FROM user WHERE username = '$username'");

$cek = mysqli\_num\_rows($query);

$data = mysqli\_fetch\_array($query);

if($cek > 0){

$hashed\_password = sha1($password);

if($data['password'] === $hashed\_password) {

$\_SESSION["user\_id"] = $data["id\_user"];

$\_SESSION["username"] = $data["username"];

$\_SESSION["role"] = $data["role"];

redirect\_to("dashboard.php");

} else {

$errors[] = 'Username atau password salah!';

}

} else {

$errors[] = 'Username atau password salah!';

}

endif;

endif;

?>

**FORM DASHBOARD**

<!-- -------------------------------Kriteria--------------------------------------- -->

<?php

require\_once('includes/init.php');

cek\_login($role = array(1));

$page = "Kriteria";

require\_once('template/header.php');

// Hitung jumlah data

$query = mysqli\_query($koneksi, "SELECT COUNT(\*) AS total\_data FROM kriteria");

$result = mysqli\_fetch\_assoc($query);

$total\_data = $result['total\_data']; ?>

<?php

require\_once('includes/init.php');

cek\_login($role = array(1));

$page = "Kriteria";

require\_once('template/header.php');

// Hitung jumlah data

$query = mysqli\_query($koneksi, "SELECT COUNT(\*) AS total\_data FROM sub\_kriteria");

$result = mysqli\_fetch\_assoc($query);

$total\_data = $result['total\_data'];

?>

<?php

require\_once('includes/init.php');

cek\_login($role = array(1));

$page = "Kriteria";

require\_once('template/header.php');

// Hitung jumlah data

$query = mysqli\_query($koneksi, "SELECT COUNT(\*) AS total\_data FROM alternatif");

$result = mysqli\_fetch\_assoc($query);

$total\_data = $result['total\_data'];

?>

<?php

require\_once('includes/init.php');

$user\_role = get\_role();

if($user\_role == 'admin' || $user\_role == 'user') {

$page = "Hasil";

require\_once('template/header.php');

// Ambil 3 data teratas

$query\_top\_3 = mysqli\_query($koneksi, "SELECT \* FROM hasil JOIN alternatif ON hasil.id\_alternatif=alternatif.id\_alternatif ORDER BY hasil.nilai DESC LIMIT 3");

?>

<?php

$no=0;

while($data = mysqli\_fetch\_array($query\_top\_3)){

$no++;

?>

<div class="h5 font-weight-bold">

<p><?= $no; ?>. <?= $data['nama'] ?> </p>

</div>

<?php

}

?>

<?php

require\_once('template/footer.php');

}

else {

header('Location: login.php');

}

?>

**FORM ALTERNATIF**

<?php require\_once('includes/init.php'); ?>

<?php cek\_login($role = array(1)); ?>

<?php

$page = "Alternatif"; require\_once('template/header.php');

?>

<?php

$status = isset($\_GET['status']) ? $\_GET['status'] : '';

$msg = '';

switch($status):

case 'sukses-baru':

$msg = 'Data berhasil disimpan';

break;

case 'sukses-hapus':

$msg = 'Data behasil dihapus';

break;

case 'sukses-edit':

$msg = 'Data behasil diupdate';

break;

endswitch;

if($msg):

echo '<div class="alert alert-info">'.$msg.'</div>';

endif;

?>

<?php

$no=0;

$query = mysqli\_query($koneksi,"SELECT \* FROM alternatif");

while($data = mysqli\_fetch\_array($query)):

$no++;

?>

**FORM KRITERIA**

<?php

require\_once('includes/init.php');

cek\_login($role = array(1));

$page = "Kriteria";

require\_once('template/header.php');

?>

<?php

$status = isset($\_GET['status']) ? $\_GET['status'] : '';

$msg = '';

switch($status):

case 'sukses-baru':

$msg = 'Data berhasil disimpan';

break;

case 'sukses-hapus':

$msg = 'Data behasil dihapus';

break;

case 'sukses-edit':

$msg = 'Data behasil diupdate';

break;

endswitch;

if($msg):

echo '<div class="alert alert-info">'.$msg.'</div>';

endif;

?>

**FORM PERHITUNGAN**

<?php

require\_once('includes/init.php');

$user\_role = get\_role();

if($user\_role == 'admin') {

$page = "Perhitungan";

require\_once('template/header.php');

mysqli\_query($koneksi,"TRUNCATE TABLE hasil;");

$kriterias = mysqli\_query($koneksi,"SELECT \* FROM kriteria ORDER BY kode\_kriteria ASC");

$alternatifs = mysqli\_query($koneksi,"SELECT \* FROM alternatif");

//Penilaian

$penilaian = array();

foreach($kriterias as $kriteria):

foreach($alternatifs as $alternatif):

$id\_alternatif = $alternatif['id\_alternatif'];

$id\_kriteria = $kriteria['id\_kriteria'];

$q4 = mysqli\_query($koneksi,"SELECT \* FROM penilaian WHERE id\_alternatif='$alternatif[id\_alternatif]' AND id\_kriteria='$kriteria[id\_kriteria]'");

$data = mysqli\_fetch\_array($q4);

$nilai = $data['nilai'];

$penilaian[$id\_kriteria][$id\_alternatif] = $nilai;

endforeach;

endforeach;

//Nilai Lingustik & Matrix Keputusan (X)

$nilai\_linguistik = array();

$matriks\_x = array();

foreach($alternatifs as $alternatif):

foreach($kriterias as $kriteria):

$id\_alternatif = $alternatif['id\_alternatif'];

$id\_kriteria = $kriteria['id\_kriteria'];

$n = $penilaian[$id\_kriteria][$id\_alternatif];

$sub\_kriteria = mysqli\_query($koneksi,"SELECT \* FROM sub\_kriteria WHERE id\_kriteria = '$id\_kriteria' ORDER BY nilai DESC");

foreach($sub\_kriteria as $sbkrt){

$operator = $sbkrt['operator'];

if($operator == 1){

$a = $sbkrt['a'];

if($n > $a){

$nilai = $sbkrt['nilai'];

$linguistik = $sbkrt['nama'];

}

}elseif($operator == 2){

$a = $sbkrt['a'];

if($n < $a){

$nilai = $sbkrt['nilai'];

$linguistik = $sbkrt['nama'];

}

}elseif($operator == 3){

$a = $sbkrt['a'];

$b = $sbkrt['b'];

if(($a<=$n) && ($n<=$b)){

$nilai = $sbkrt['nilai'];

$linguistik = $sbkrt['nama'];

}

}else{

$nilai = 0;

$linguistik = "Tidak Ada Data";

}

}

$nilai\_linguistik[$id\_kriteria][$id\_alternatif] = $linguistik;

$matriks\_x[$id\_kriteria][$id\_alternatif] = $nilai;

endforeach;

endforeach;

//Matrix Keputusan (X0)

$matriks\_x0 = array();

foreach($kriterias as $kriteria):

$type\_kriteria = $kriteria['type'];

if($type\_kriteria == 'Benefit'):

$id\_kriteria = $kriteria['id\_kriteria'];

$x0 = max($matriks\_x[$id\_kriteria]);

elseif($type\_kriteria == 'Cost'):

$id\_kriteria = $kriteria['id\_kriteria'];

$x0 = min($matriks\_x[$id\_kriteria]);

endif;

$matriks\_x0[$id\_kriteria] = $x0;

endforeach;

$matriks\_x2 = array();

foreach($alternatifs as $alternatif):

foreach($kriterias as $kriteria):

$id\_alternatif = $alternatif['id\_alternatif'];

$id\_kriteria = $kriteria['id\_kriteria'];

$x = $matriks\_x[$id\_kriteria][$id\_alternatif];

$type\_kriteria = $kriteria['type'];

if($type\_kriteria == 'Benefit'):

$x2 = $x;

elseif($type\_kriteria == 'Cost'):

$x2 = 1/$x;

endif;

$matriks\_x2[$id\_kriteria][$id\_alternatif] = $x2;

endforeach;

endforeach;

$matriks\_x02 = array();

foreach($kriterias as $kriteria):

$id\_kriteria = $kriteria['id\_kriteria'];

$type\_kriteria = $kriteria['type'];

$x0 = $matriks\_x0[$id\_kriteria];

if($type\_kriteria == 'Benefit'):

$x02 = $x0;

elseif($type\_kriteria == 'Cost'):

$x02 = 1/$x0;

endif;

$matriks\_x02[$id\_kriteria] = $x02;

endforeach;

$total\_matriks\_x = array();

foreach($kriterias as $kriteria):

$tx = 0;

$id\_kriteria = $kriteria['id\_kriteria'];

foreach($alternatifs as $alternatif):

$id\_alternatif = $alternatif['id\_alternatif'];

$x = $matriks\_x2[$id\_kriteria][$id\_alternatif];

$tx += $x;

endforeach;

$x0 = $matriks\_x02[$id\_kriteria];

$total\_matriks\_x[$id\_kriteria] = $tx + $x0;

endforeach;

//Normalisasi Matriks Keputusan

$matriks\_r = array();

foreach($alternatifs as $alternatif):

foreach($kriterias as $kriteria):

$id\_alternatif = $alternatif['id\_alternatif'];

$id\_kriteria = $kriteria['id\_kriteria'];

$x = $matriks\_x2[$id\_kriteria][$id\_alternatif];

$total = $total\_matriks\_x[$id\_kriteria];

$matriks\_r[$id\_kriteria][$id\_alternatif] = $x/$total;

endforeach;

endforeach;

$matriks\_r0 = array();

foreach($kriterias as $kriteria):

$id\_kriteria = $kriteria['id\_kriteria'];

$x0 = $matriks\_x02[$id\_kriteria];

$total = $total\_matriks\_x[$id\_kriteria];

$matriks\_r0[$id\_kriteria] = $x0/$total;

endforeach;

//Matriks Normalisasi Terbobot

$matriks\_rb = array();

$total\_rb = array();

foreach($alternatifs as $alternatif):

$t\_rb = 0;

$id\_alternatif = $alternatif['id\_alternatif'];

foreach($kriterias as $kriteria):

$id\_kriteria = $kriteria['id\_kriteria'];

$bobot = $kriteria['bobot'];

$r = $matriks\_r[$id\_kriteria][$id\_alternatif];

$rb = $r\*$bobot;

$matriks\_rb[$id\_kriteria][$id\_alternatif] = $rb;

$t\_rb += $rb;

endforeach;

$total\_rb[$id\_alternatif] = $t\_rb;

endforeach;

$matriks\_rb0 = array();

$total\_rb0 = 0;

foreach($kriterias as $kriteria):

$id\_kriteria = $kriteria['id\_kriteria'];

$r0 = $matriks\_r0[$id\_kriteria];

$bobot = $kriteria['bobot'];

$rb = $r0\*$bobot;

$matriks\_rb0[$id\_kriteria] = $rb;

$total\_rb0 += $rb;

endforeach;

?>

<?php

foreach ($kriterias as $kriteria):

$id\_alternatif = $alternatif['id\_alternatif'];

$id\_kriteria = $kriteria['id\_kriteria'];

<?php

$no++;

endforeach;

?>

<?php

require\_once('template/footer.php');

}

else {

header('Location: login.php');

}

?>

**FORM HASIL**

<?php

require\_once('includes/init.php');

$user\_role = get\_role();

if($user\_role == 'admin' || $user\_role == 'user') {

$page = "Hasil";

require\_once('template/header.php');

?>

<?php

$no=0;

$query = mysqli\_query($koneksi,"SELECT \* FROM hasil JOIN alternatif ON hasil.id\_alternatif=alternatif.id\_alternatif ORDER BY hasil.nilai DESC");

while($data = mysqli\_fetch\_array($query)){

$no++;

?>

<tr align="center">

<td align="left"><?= $data['nama'] ?>

<?php

require\_once('template/footer.php');

}

else {

header('Location: login.php');

}

?>

**FORM CETAK HASIL**

<?php

require\_once('includes/init.php');

$user\_role = get\_role();

if($user\_role == 'admin' || $user\_role == 'user') {

?>

<body onload="window.print();">

<?php

// Ambil tanggal saat ini

$tanggal = date('d F Y');

?>

<?php

$no = 0;

$query = mysqli\_query($koneksi, "SELECT \* FROM hasil JOIN alternatif ON hasil.id\_alternatif=alternatif.id\_alternatif ORDER BY hasil.nilai DESC");

while($data = mysqli\_fetch\_array($query)) {

$no++;

?>

<?php

}

else {

header('Location: login.php');

}

?>