

Source Code

Index code:

```
<?php
include'functions.php';
?>
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8" />
  <meta http-equiv="X-UA-Compatible" content="IE=edge" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <link rel="icon" href="assets/logo.png" />

  <title>Sistem Pakar Diagnosa Kondisi Daging </title>
  <link href="assets/css/united-bootstrap.min.css" rel="stylesheet" />
  <link href="assets/css/general.css" rel="stylesheet" />
  <script src="assets/js/jquery.min.js"></script>
  <script src="assets/js/bootstrap.min.js"></script>
  <style type="text/css">
    .navbar-inverse {
      background-color: #008000;
      font-size: 18px;
    }

    .navbar-brand>img {
      max-height: 100%;
      height: 100%;
      width: auto;
      margin: 0 auto;

      /* probably not needed anymore, but doesn't hurt */
      -o-object-fit: contain;
      object-fit: contain;
    }
  </style>
</head>
<?php if(file_exists($mod.'.php')):?>

<body>
```

```

<?php else:?>

<body
    style="background-
image:url('https://asset.kompas.com/crops/hdjSpWg3-
s80QtKrQQgxaJG8bCU=/0x0:1000x667/1200x800/data/photo/2019/06/06/21
47900837.jpg')">
    <?php endif;?>
    <nav class="navbar navbar-inverse navbar-static-top ">
        <div class="container">
            <div class="navbar-header">
                <button type="button" class="navbar-toggle collapsed" data-
toggle="collapse" data-target="#navbar"
                aria-expanded="false" aria-controls="navbar">
                    <span class="sr-only">Toggle navigation</span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                </button>
                <a class="navbar-brand" href="#"></a>
            </div>
            <div id="navbar" class="navbar-collapse collapse">
                <ul class="nav navbar-nav">
                    <?php if($_SESSION[login]):?>
                        <li><a href="?m=penyakit"><span class="glyphicon
glyphicon-pushpin"></span> Diagnosis</a></li>
                        <li><a href="?m=training"><span class="glyphicon
glyphicon-hdd"></span> Data Training</a></li>
                        <!-- <li><a href="?m=akurasi"><span class="glyphicon
glyphicon-star"></span> Akurasi</a></li> -->
                        <li><a href="?m=histori"><span class="glyphicon glyphicon-
list"></span> Histori</a></li>
                        <li><a href="?m=password"><span class="glyphicon
glyphicon-lock"></span> Password</a></li>
                        <li><a href="aksi.php?act=logout"><span class="glyphicon
glyphicon-log-out"></span> Logout</a>
                        </li>
                    <?php else:?>
                        <li><a href="?m=konsultasi"><span class="glyphicon
glyphicon-stats"></span> Konsultasi</a></li>
                        <li><a href="?m=login"><span class="glyphicon glyphicon-
log-in"></span> Login</a></li>
                    <?php endif?>

```

```

        </ul>
    </div>
</div>
</nav>
<div class="container">
    <?php
    if(in_array($mod, array('gejala', 'pengetahuan', 'password')) &&
!$_SESSION[login])
        redirect_js('?m=login');
    if(file_exists($mod.'.php'))
        include $mod.'.php';
    else
        include 'home.php';
    ?>
    </div>
    <footer class="footer bg-success">
        <div class="container">
            <p>Copyright &copy; <?=date('Y')?> Sistem Pakar Diagnosa
Kondisi Daging</p>
        </div>
    </footer>
</body>
</html>

```

Login code:

```
<div class="page-header">
  <h1>Login Admin</h1>
</div>
<div class="row">
  <div class="col-md-4">
    <?php if($_POST) include 'aksi.php'; ?>
    <form method="post">
      <div class="form-group">
        <label>Username</label>
        <input type="text" class="form-control" placeholder="Username"
name="user" autofocus />
      </div>
      <div class="form-group">
        <label>Password</label>
        <input type="password" id="inputPassword" class="form-control"
placeholder="Password" name="pass" />
      </div>
      <div class="form-group">
        <button class="btn btn-primary" type="submit"><span
class="glyphicon glyphicon-log-in"></span> Masuk</button>
        <!-- <p class="help-block">User dan Pass : admin</p> -->
      </div>
    </form>
  </div>
</div>
```

Data training Code:

```
<div class="page-header">
  <h1>Data Training</h1>
</div>
<div class="panel panel-default">
  <div class="panel-heading">
    <form class="form-inline">
      <input type="hidden" name="m" value="training" />
      <div class="form-group">
        <input class="form-control" type="text" placeholder="Pencarian. .
        ." name="q" value="<?=$_GET['q']?>" />
      </div>
      <div class="form-group">
        <button class="btn btn-success"><span class="glyphicon
        glyphicon-refresh"></span> Refresh</a>
      </div>
      <div class="form-group">
        <a class="btn btn-primary" href="?m=training_tambah"><span
        class="glyphicon glyphicon-plus"></span> Tambah</a>
      </div>
    </form>
  </div>
  <div class="table-responsive">
    <table class="table table-bordered table-hover table-striped">
      <thead>
        <tr>
          <th>No</th>
          <th>Kondisi Daging</th>
          <th>Gambar</th>
          <th>Aksi</th>
        </tr>
      </thead>
      <?php
      $q = esc_field($_GET['q']);
      $rows = $db->get_results("SELECT * FROM tb_training t INNER
      JOIN tb_penyakit p ON p.kode_penyakit = t.kode_penyakit
      ORDER BY id_training");
      $no=1;
      foreach($rows as $row):?>
        <tr>
          <td><?=$no++ ?></td>
          <td><?=$row->nama_penyakit?></td>
          <td></td>
```

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        <td class="nw">
            <a class="btn btn-xs btn-warning"
href="?m=training_ubah&ID=<?=$row->id_training?>"><span
class="glyphicon glyphicon-edit"></span></a>
            <a class="btn btn-xs btn-danger"
href="aksi.php?act=training_hapus&ID=<?=$row->id_training?>"
onclick="return confirm('Hapus data?')"><span class="glyphicon glyphicon-
trash"></span></a>
        </td>
    </tr>
    <?php endforeach;?>
</table>
</div>
</div>

```

Konsultasi code

```

<div class="page-header">
    <h1>Konsultasi</h1>
</div><?php
if(empty($_GET['nama'])||empty($_GET['alamat'])||empty($_GET['jk'])||empty(
$_GET['email'])):
    if(isset($_GET['nama'])):?>
        <div class="alert alert-dismissible alert-danger">
            <button type="button" class="close" data-
dismiss="alert">&times;</button>
            <strong>Data Harus di isi semua jika ingin lanjut!</strong>
        </div>
    <?php endif;?>
<div class="col-md-6">
    <form >
        <input type="hidden" name="m" value="konsultasi" />
        <div class="form-group">
            <label>Nama <span class="text-danger">*</span></label>
            <input class="form-control" type="text" name="nama" value="<?=$
_GET['nama'] ?>" />
        </div>
        <div class="form-group">
            <label>Alamat <span class="text-danger">*</span></label>
            <input class="form-control" type="text" name="alamat" value="<?=$
_GET['alamat'] ?>" />
        </div>
        <div class="form-group">

```

```

        <label>No. HP <span class="text-danger">*</span></label>
        <input class="form-control" type="number" name="jk" value="<?=$_GET['jk'] ?>" />
    </div>
    <div class="form-group">
        <label>Email <span class="text-danger">*</span></label>
        <input class="form-control" type="email" name="email" value="" />
    </div>
    <div class="form-group">
        <button class="btn btn-primary"><span class="glyphicon glyphicon-save"></span> Lanjut Diagnosa</button>
    </div>
</form>

</div>
<?php else:?>
    <form action="?m=hasil" method="post" enctype="multipart/form-data">
        <input type="hidden" name="m" value="hasil" />
        <input class="form-control" type="hidden" name="nama" value="<?=$_GET['nama'] ?>" />
        <input class="form-control" type="hidden" name="alamat" value="<?=$_GET['alamat'] ?>" />
        <input class="form-control" type="hidden" name="jk" value="<?=$_GET['jk'] ?>" />
        <input class="form-control" type="hidden" name="email" value="<?=$_GET['email'] ?>" />
        <div class="panel panel-default">
            <div class="panel-heading">
                <h3 class="panel-title">Halaman Diagnosa</h3>
            </div>
            <div class="panel-body">
                <div class="form-group">
                    <label>Masukan Gambar Anda <span class="text-danger">*</span></label>
                    <input class="form-control" type="file" name="gambar" required accept=".jpg, .jpeg, .png" />
                </div>
            </div>
            <div class="panel-footer">
                <button class="btn btn-primary"><span class="glyphicon glyphicon-ok"></span> Submit Diagnosa</button>
            </div>
        </div>
    </form>

```

```
<?php endif;?>
```

Code ubah Data Training

```
?php
$row = $db->get_row("SELECT * FROM tb_training WHERE
id_training='$_GET[ID]'");
?>
<div class="page-header">
    <h1>Ubah training</h1>
</div>
<div class="row">
    <div class="col-sm-6">
        <?php if($_POST) include'aksi.php'?>
        <form method="post" enctype="multipart/form-data">
            <div class="form-group">
                <label>Kondisi Daging <span class="text-
danger">*</span></label>
                <select class="form-control" name="nama">
                    <?=get_penyakit_option(set_value('nama',$row-
>kode_penyakit))?>
                </select>
            </div>
            <div class="form-group">
                <label>Gambar<span class="text-danger">*</span></label>
                
                <input class="form-control" type="file" name="gambar" required
accept=".jpg, .jpeg, .png" />
                <p class="text-danger">Kosongkan jika tidak ada update</p>
            </div>
            <div class="form-group">
                <button class="btn btn-primary"><span class="glyphicon
glyphicon-save"></span> Simpan</button>
                <a class="btn btn-danger" href="?m=training"><span
class="glyphicon glyphicon-arrow-left"></span> Kembali</a>
            </div>
        </form>
    </div>
</div>
```

Code Hasil Diagnosa

```
<div class="page-header">
    <h1>Hasil Diagnosa</h1>
</div>
<?php

function resizeImage($file, $width, $height) {
    list($originalWidth, $originalHeight) = getimagesize($file);

    $src = imagecreatefromjpeg($file);
    $dst = imagecreatetruecolor($width, $height);

    imagecopyresampled($dst, $src, 0, 0, 0, 0, $width, $height, $originalWidth,
    $originalHeight);

    imagejpeg($dst, $file);

    imagedestroy($src);
    imagedestroy($dst);
}

$message = "Proses Diagnosa";
echo "<script type='text/javascript'>alert('$message');</script>";

$rows = $db->get_results("SELECT * FROM tb_penyakit GROUP BY
kode_penyakit");
foreach ($rows as $row) {
    $PENYAKIT[$row->kode_penyakit]=$row->nama_penyakit;
    $SSL_P[$row->kode_penyakit]=$row->solusi;
}

require 'vendor/autoload.php';
$gambar = $_FILES['gambar'];
$n_gambar = "perbandingan/".$gambar['name'];
move_uploaded_file($gambar['tmp_name'], $n_gambar);

resizeImage($n_gambar, 100, 100);

$gambar_utama = Image::fromFile($n_gambar);
$rows = $db->get_results("SELECT * FROM tb_training");
$similarity_sum = 0;
$hasil = [];
foreach ($rows as $row) {
```

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if($row->gambar!=""){
    $gambar_kedua = Image::fromFile($row->gambar);
    $hasil[$row->kode_penyakit]=$gambar_utama-
>difference($gambar_kedua);
    $similarity_sum += $hasil[$row->kode_penyakit];
} else {
    $hasil[$row->kode_penyakit]=0;
}
}
}

```

```

$accuracy = [];
foreach ($hasil as $key => $value) {
    $accuracy[$key] = ($value / $similarity_sum) * 100;
}
?>

```

```

<div class="row">
    <div class="col-md-4">
        <div class="panel panel-default">
            <div class="panel-heading">
                <h3 class="panel-title">Gambar Upload</h3>
            </div>
            <div class="panel-body">
                
            </div>
        </div>
    </div>
    <div class="col-md-8">
        <div class="panel panel-default">
            <div class="panel-heading">
                <h3 class="panel-title">Diagnosa</h3>
            </div>
            <table class="table table-bordered table-hover table-striped">
                <thead>
                    <tr>
                        <th>No</th>
                        <th>Kondisi Daging</th>
                        <th>Similarity</th>
                        <th>Akurasi</th>
                    </tr>
                </thead>
                <tbody>
                    <?php
                    $no=1;

```

```

        foreach ($hasil as $key => $value):?>
            <tr>
                <td><?=$no++?></td>
                <td><?=$PENYAKIT[$key]?></td>
                <td><?=$value?></td>
                <td><?=round($accuracy[$key], 2)?>%</td>
            </tr>
        <?php endforeach;?>
    </tbody>
</table>
</div>
</div>
</div>
<div class="panel panel-default">
    <div class="panel-heading">
        <h3 class="panel-title">Kesimpulan</h3>
    </div>
    <table class="table table-bordered table-hover table-striped">
        <thead>
            <tr>
                <th>No</th>
                <th>Kondisi Daging</th>
                <th>Persentase</th>
                <th>Rank</th>
            </tr>
        </thead>
        <?php
$no=1;
function ranking($array){
    $new_arr = array();
    foreach($array as $key => $value) {
        $new_arr[$key] = $value;
    }
    arsort($new_arr);
    $result = array();
    foreach($new_arr as $key => $value){
        $result[$key] = ++$no;
    }
    return $result;
}

$rank = ranking($hasil);
$penyakit = "";
foreach($rank as $key => $value):

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        if($value==1){
            $penyakit=$key;
        }?>
        <tr class="<?=( $value==1) ? 'text-primary' : ''?>">
            <td><?=$no++?></td>
            <td><?=$PENYAKIT[$key]?></td>
            <td><?=round($hasil[$key]*100),'%'?></td>
            <td><?=$value?></td>
        </tr>
    <?php endforeach;
    $nama = $_POST['nama'];
    $alamat = $_POST['alamat'];
    $jk = $_POST['jk'];
    $email = $_POST['email'];
    $tanggal = date('Y-m-d');
    $jam = date('H:i');

    $db->query("INSERT INTO
tb_laporan(tanggal,jam,nama,alamat,jk,email,hasil)
VALUES('$tanggal','$jam','$nama','$alamat','$jk','$email','$PENYAKIT[$pen
yakit]')");
    reset($rank);
    $_SESSION[gejala] = $gejala;
    ?>
</table>
<table class="table table-bordered table-hover table-striped">
    <tr>
        <th>Nama</th>
        <th>:</th>
        <th><?=$nama?></th>
    </tr>
    <tr>
        <th>Alamat</th>
        <th>:</th>
        <th><?=$alamat?></th>
    </tr>
    <tr>
        <th>No. Telp</th>
        <th>:</th>
        <th><?=$jk?></th>
    </tr>
    <tr>
        <th>Email</th>
        <th>:</th>

```

```

        <th><?=$email?></th>
    </tr>
    <tr>
        <th>Hasil Diagnosa</th>
        <th>:</th>
        <th><?=$PENYAKIT[$penyakit]?></th>
    </tr>
    <tr>
        <th>Solusi</th>
        <th>:</th>
        <th><?=$SL_P[$penyakit]?></th>
    </tr>
</table>
<div class="panel-body">
    <a class="btn btn-primary" href="?m=konsultasi"><span class="glyphicon
glyphicon-refresh"></span> Ulang</a>
    <a class="btn btn-default"
href="cetak.php?m=konsultasi&ID=<?=$penyakit?>&nama=<?=$nama?>&a
lamat=<?=$alamat?>&jk=<?=$jk?>&email=<?=$email?>"
target="_blank"><span class="glyphicon glyphicon-print"></span>
Cetak</a>
</div>
</div>

```