**LAMPIRAN LISTING PROGRAM**

## **AlternatifController.php**

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| --- |
| <?php  class AlternatifController extends Controller{  public function index(){  $data['title'] = "Data Alternatif";  $data['alternatif'] = $this->model('AlternatifModel')->semua\_alternatif();  $this->render('templates/header', $data);  $this->render('templates/sidebar', $data);  $this->render('templates/topbar');  $this->render('alternatif/index', $data);  $this->render('templates/footer');  }  public function form($id = NULL){  $data['title'] = "Tambah Data Alternatif";  $data['kriteria'] = $this->model('KriteriaModel')->semua\_kriteria();  if ($id != NULL){  $data['title'] = "Edit Data Alternatif";  $data['peserta'] = $this->model('AlternatifModel')->detail\_alternatif($id);  $data['kriteria'] = $this->model('NilaialternatifModel')->detail\_nilai\_alternatif($id);  }  $this->render('templates/header', $data);  $this->render('templates/sidebar', $data);  $this->render('templates/topbar');  $this->render('alternatif/form', $data);  $this->render('templates/footer');  }  public function simpan\_alternatif(){  if (isset($\_POST['submit'])){  if ($\_POST['submit'] == "Tambah"){  $id\_alternatif = $this->model('AlternatifModel')->tambah\_alternatif($\_POST);  if ($id\_alternatif){  if ($this->model('NilaialternatifModel')->tambah\_nilai\_alternatif($\_POST['kriteria'], $id\_alternatif) > 0){  Flasher::setFlash('Data alternatif berhasil ditambah', 'success');  }else{  Flasher::setFlash('Data alternatif gagal ditambah', 'danger');  }  }  }else if ($\_POST['submit'] == "Edit"){  if ($this->model('AlternatifModel')->edit\_alternatif($\_POST) > 0 && $this->model('NilaialternatifModel')->edit\_nilai\_alternatif($\_POST['kriteria'], $\_POST['id\_alternatif']) > 0) {  Flasher::setFlash('Data Alternatif berhasil diedit', 'success');  }else{  Flasher::setFlash('Data Alternatif gagal diedit', 'danger');  }  }  }  header('Location:' . BASEURL . 'alternatif');  exit;  }  public function hapus\_alternatif($id){  if ($this->model('AlternatifModel')->detail\_alternatif($id) > 0){  if ($this->model('NilaialternatifModel')->hapus\_nilai\_alternatif($id) > 0 && $this->model('AlternatifModel')->hapus\_alternatif($id) > 0){  Flasher::setFlash('Data alternatif berhasil dihapus', 'success');  }else{  Flasher::setFlash('Data alternatif gagal dihapus', 'danger');  }  }else{  Flasher::setFlash('Data alternatif tidak ditemukan. Gagal dihapus', 'danger');  }  header('Location:' . BASEURL . 'alternatif');  exit;  }  }  ?> |

## **AuthController.php**

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| <?php  class AuthController extends Controller{  public function index(){  if (isset($\_POST['submit'])){  $username = htmlspecialchars($\_POST['username'], true);  $password = htmlspecialchars($\_POST['password'], true);  $passmd5 = MD5($password);  $data = ['username' => $username, 'password' => $passmd5];  $user = $this->model('UserModel')->login($data);  if ($user){  $\_SESSION['username'] = $user->username;  $\_SESSION['id\_user'] = $user->id\_user;  header('Location:' . BASEURL . 'dashboard');  }else{  Flasher::setFlash('Username atau password Anda salah', 'danger');  header('Location:' . BASEURL . 'auth');  }  }else{  $data['title'] = "Login";  $this->render('templates/header', $data);  $this->render('templates/sidebar', $data);  $this->render('templates/topbar');  $this->render('auth/login', $data);  $this->render('templates/footer');  }  }  public function logout(){  if (empty($\_SESSION['username'])){  Flasher::setFlash('Upps Anda belum login', 'danger');  header('Location:' . BASEURL . 'auth');  }else{  unset($\_SESSION['id\_user']);  unset($\_SESSION['username']);  Flasher::setFlash('Terima kasih. Anda telah keluar', 'success');  header('Location:' . BASEURL . 'auth');  }  }  } |

## **DashboardController.php**

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| <?php  class DashboardController extends Controller{  public function index(){  $data['title'] = "Dashboard";  $data['t\_kriteria'] = count($this->model('KriteriaModel')->semua\_kriteria());  $data['t\_alternatif'] = count($this->model('AlternatifModel')->semua\_alternatif());  $this->render('templates/header', $data);  $this->render('templates/sidebar', $data);  $this->render('templates/topbar');  $this->render('dashboard/index', $data);  $this->render('templates/footer');  }  } |

## **HitungController.php**

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| <?php  class HitungController extends Controller{  public function index(){  $data['title'] = "Penghitungan Weighted Product";  $data['kriteria'] = $this->model('KriteriaModel')->semua\_kriteria();  $data['alternatif'] = $this->model('AlternatifModel')->semua\_alternatif();  $this->render('templates/header', $data);  $this->render('templates/sidebar', $data);  $this->render('templates/topbar');  $this->render('hitung/index', $data);  $this->render('templates/footer');  }  } |

## **KriteriaController.php**

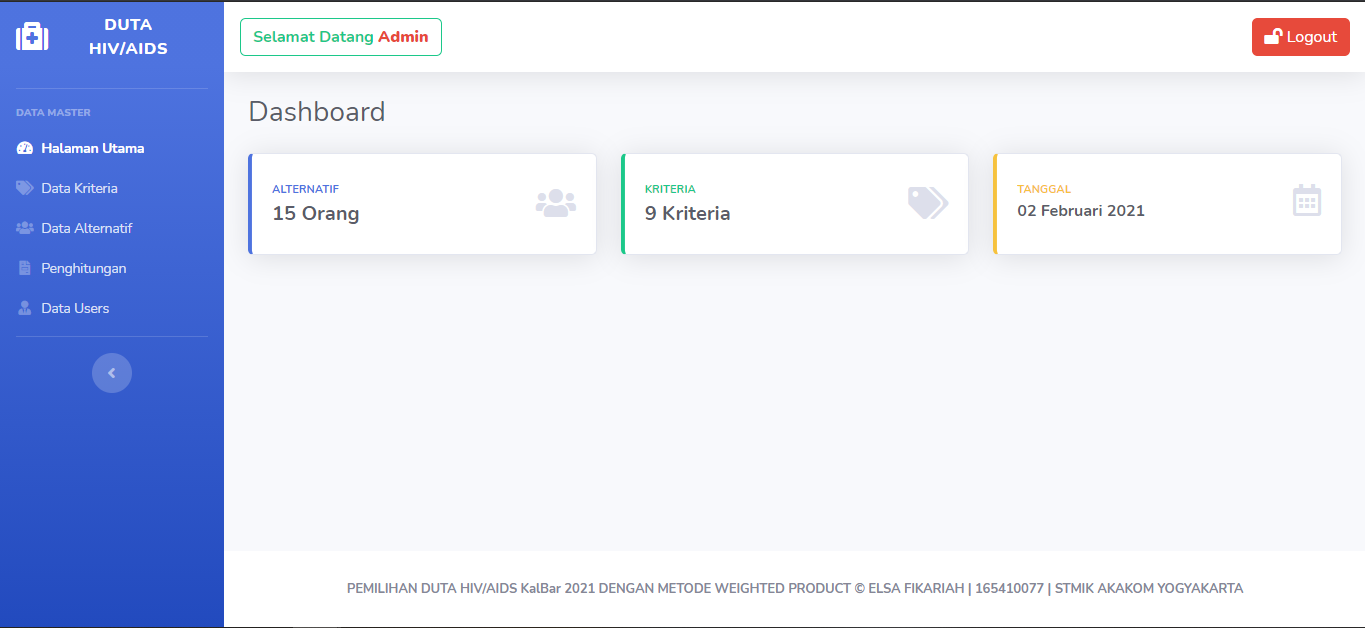
|  |
| --- |
| <?php  class KriteriaController extends Controller{  public function index($id = NULL){  $data['title'] = "Data Kriteria";  if (isset($\_POST['submit'])){  if ($\_POST['submit'] == "Tambah"){  if ($this->model('KriteriaModel')->tambah\_kriteria($\_POST) > 0){  Flasher::setFlash('Data Kriteria berhasil ditambah', 'success');  }else{  Flasher::setFlash('Data Kriteria gagal ditambah', 'danger');  }  }else if ($\_POST['submit'] == "Edit"){  if ($this->model('KriteriaModel')->edit\_kriteria($\_POST) > 0){  Flasher::setFlash('Data Kriteria berhasil diedit', 'success');  }else{  Flasher::setFlash('Data Kriteria gagal diedit', 'danger');  }  }  header('Location:' . BASEURL . 'kriteria');  exit;  }else{  if ($id != NULL){  $data['detail'] = $this->model('KriteriaModel')->detail\_kriteria($id);  }  $data['kriteria'] = $this->model('KriteriaModel')->semua\_kriteria();  $this->render('templates/header', $data);  $this->render('templates/sidebar', $data);  $this->render('templates/topbar');  $this->render('kriteria/index', $data);  $this->render('templates/footer');  }  }  public function hapus\_kriteria($id){  if ($this->model('KriteriaModel')->detail\_kriteria($id) > 0){  if ($this->model('KriteriaModel')->hapus\_kriteria($id) > 0){  Flasher::setFlash('Data Kriteria berhasil dihapus', 'success');  }else{  Flasher::setFlash('Data Kriteria gagal dihapus', 'danger');  }  }else{  Flasher::setFlash('Data Kriteria tidak ditemukan. Gagal dihapus', 'danger');  }  header('Location:' . BASEURL . 'kriteria');  exit;  }  } |

## **UsersController.php**

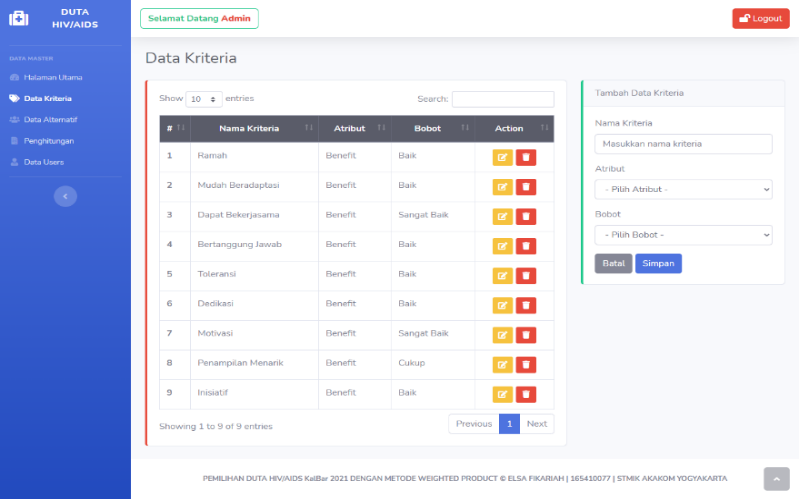
|  |
| --- |
| <?php  class UsersController extends Controller{  public function index($id = null){  $data['title'] = "Data Users";  if (isset($\_POST['submit'])){  if (trim($\_POST['username\_lama']) != trim($\_POST['username'])){  if ($this->model('UserModel')->cek\_username(trim($\_POST['username']))){  Flasher::setFlash('Data user gagal disimpan. Username sudah ada', 'danger');  header('Location:' . BASEURL . 'users');  exit;  }  }  if ($\_POST['submit'] == "Tambah"){  if ($this->model('UserModel')->tambah\_user($\_POST) > 0){  Flasher::setFlash('Data user berhasil ditambah', 'success');  }else{  Flasher::setFlash('Data user gagal ditambah', 'danger');  }  }else if ($\_POST['submit'] == "Edit"){  if ($this->model('UserModel')->edit\_user($\_POST) > 0){  Flasher::setFlash('Data user berhasil diedit', 'success');  }else{  Flasher::setFlash('Data user gagal diedit', 'danger');  }  }  header('Location:' . BASEURL . 'users');  exit;  }else{  $data['user'] = $this->model('UserModel')->semua\_user();  if ($id != NULL){  $data['detail'] = $this->model('UserModel')->detail\_user($id);  }  $this->render('templates/header', $data);  $this->render('templates/sidebar', $data);  $this->render('templates/topbar');  $this->render('user/index', $data);  $this->render('templates/footer');  }  }  public function hapus\_user($id){  if ($this->model('UserModel')->detail\_user($id) > 0){  if ($this->model('UserModel')->hapus\_user($id) > 0){  Flasher::setFlash('Data user berhasil dihapus', 'success');  }else{  Flasher::setFlash('Data user gagal dihapus', 'danger');  }  }else{  Flasher::setFlash('Data user tidak ditemukan. Gagal dihapus', 'danger');  }  header('Location:' . BASEURL . 'users');  exit;  }  public function editPassword(){  $password\_lama = htmlspecialchars($\_POST['passwordlama']);  $data = $this->model('UserModel')->getUser($\_SESSION['id\_pengguna']);  if (md5($password\_lama) != $data->password){  Flasher::setFlash('Password gagal di edit. Password lama tidak sesuai', 'danger');  if ($\_SESSION['role'] == "petugas"){  header('Location:' . BASEURL . 'dashboard');  }else{  header('Location:' . BASEURL . 'user');  }  exit;  }else{  if ($this->model('UserModel')->editPassword($\_POST)){  Flasher::setFlash('Password berhasil di edit', 'success');  if ($\_SESSION['role'] == "petugas"){  header('Location:' . BASEURL . 'dashboard');  }else{  header('Location:' . BASEURL . 'user');  }  exit;  }else{  Flasher::setFlash('Password gagal di edit', 'danger');  if ($\_SESSION['role'] == "petugas"){  header('Location:' . BASEURL . 'dashboard');  }else{  header('Location:' . BASEURL . 'user');  }  exit;  }  }  }  } |

**LAMPIRAN GAMBAR APLIKASI**

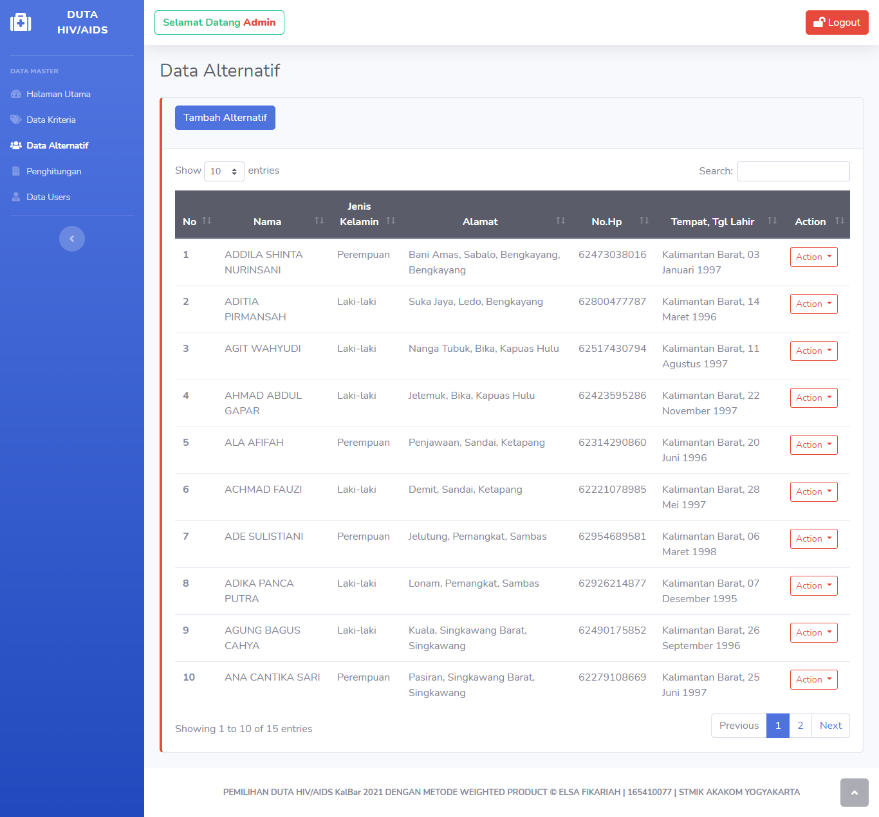
1. **Halaman Utama**



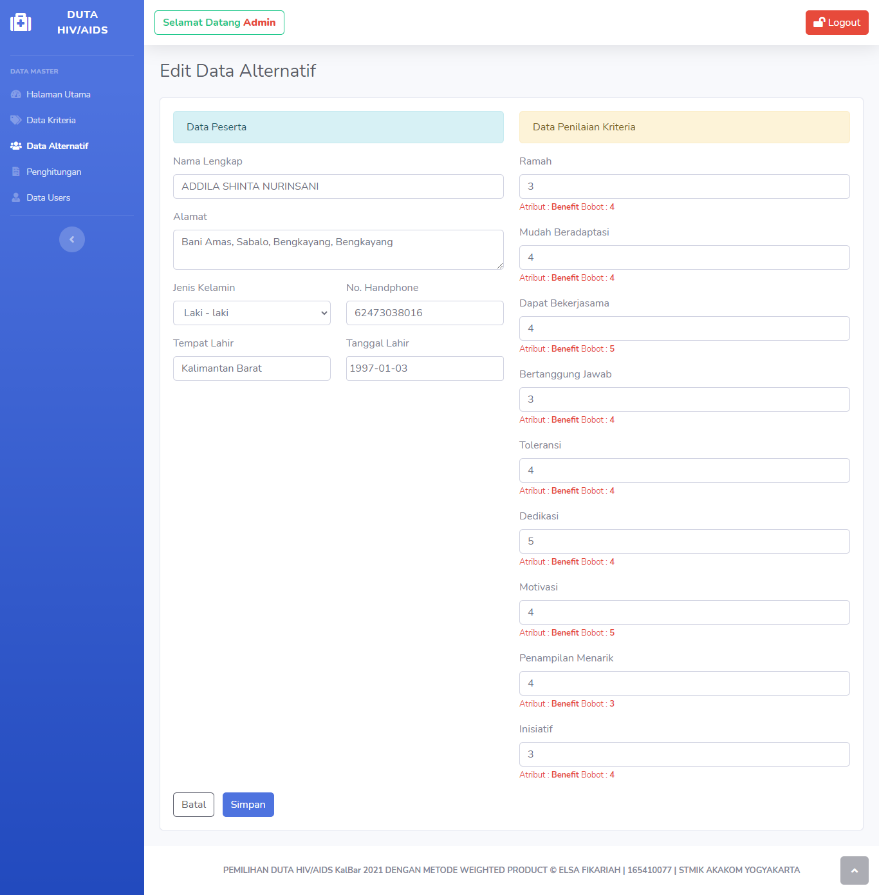
1. **Halaman Data Kriteria**

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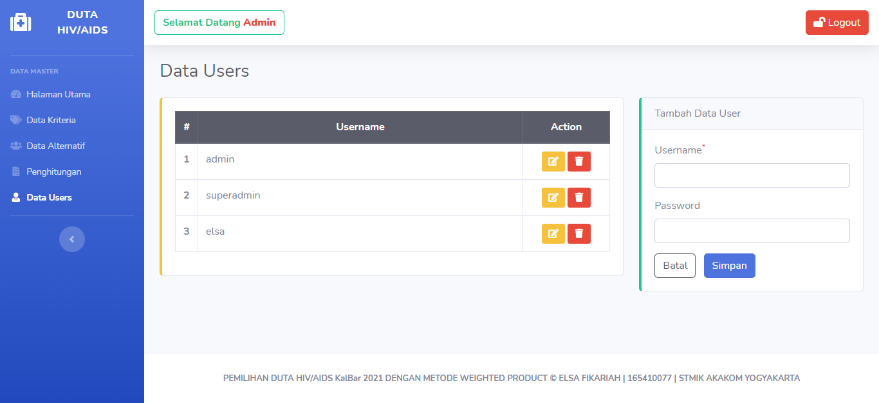
1. **Halaman Data Alternatif**



1. **Tampilan Form Data Alternatif**



1. **Tampilan Data Users**



1. **Tampilan Hasil Penghitungan**



**LAMPIRAN QUERY DATABASE**

## **AlternatifModel.php**

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| --- |
| <?php  class AlternatifModel extends Database{  public function semua\_alternatif(){  $query = 'SELECT \* FROM alternatif';  $this->query($query);  return $this->resultset();  }  public function ranking(){  $query = 'SELECT \* FROM alternatif ORDER BY nilai\_wp DESC';  $this->query($query);  return $this->resultset();  }  public function detail\_alternatif($id){  $query = 'SELECT \* FROM alternatif  WHERE id\_alternatif = :id';  $this->query($query);  $this->bind(':id', $id);  return $this->single();  }  public function tambah\_alternatif($data){  try{  $query = "INSERT INTO alternatif (nama\_alternatif, alamat, no\_hp, tempat\_lahir, tanggal\_lahir, jekel)  VALUES (:nama\_alternatif, :alamat, :no\_hp, :tempat\_lahir, :tanggal\_lahir, :jekel)";  $this->query($query);  $this->bind(':nama\_alternatif', $data['nama\_alternatif']);  $this->bind(':alamat', $data['alamat']);  $this->bind(':no\_hp', $data['no\_hp']);  $this->bind(':tempat\_lahir', $data['tempat\_lahir']);  $this->bind(':tanggal\_lahir', $data['tanggal\_lahir']);  $this->bind(':jekel', $data['jekel']);  $this->execute();  return $this->lastInsertId();  }catch(PDOException $e){  return $e->getMessage();  }  }  public function edit\_alternatif($data){  try{  $query = "UPDATE alternatif SET nama\_alternatif = :nama\_alternatif, alamat = :alamat,no\_hp = :no\_hp,tempat\_lahir = :tempat\_lahir,tanggal\_lahir = :tanggal\_lahir,jekel = :jekel WHERE id\_alternatif = :id\_alternatif";  $this->query($query);  $this->bind(':id\_alternatif', $data['id\_alternatif']);  $this->bind(':nama\_alternatif', $data['nama\_alternatif']);  $this->bind(':alamat', $data['alamat']);  $this->bind(':no\_hp', $data['no\_hp']);  $this->bind(':tempat\_lahir', $data['tempat\_lahir']);  $this->bind(':tanggal\_lahir', $data['tanggal\_lahir']);  $this->bind(':jekel', $data['jekel']);  $this->execute();  return $data;  }catch(PDOException $e){  return $e->getMessage();  }  }  public function simpan\_ranking($id\_alternatif, $nilai){  try{  $query = "UPDATE alternatif SET nilai\_wp = :nilai\_wp  WHERE id\_alternatif = :id\_alternatif";  $this->query($query);  $this->bind(':id\_alternatif', $id\_alternatif);  $this->bind(':nilai\_wp', $nilai);  $this->execute();  return true;  }catch(PDOException $e){  return $e->getMessage();  }  }  public function hapus\_alternatif($id){  $query = "DELETE FROM alternatif  WHERE id\_alternatif=:id";  $this->query($query);  $this->bind(':id', $id);  $this->execute();  return $this->rowCount();  }  } |

## **KriteriaModel.php**

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| <?php  class KriteriaModel extends Database{  public function semua\_kriteria(){  $query = 'SELECT \* FROM kriteria ORDER BY id\_kriteria ASC';  $this->query($query);  return $this->resultset();  }  public function detail\_kriteria($id\_kriteria){  $query = 'SELECT \* FROM kriteria WHERE id\_kriteria=:id\_kriteria';  $this->query($query);  $this->bind(':id\_kriteria', $id\_kriteria);  return $this->single();  }  public function tambah\_kriteria($data){  $query = "INSERT INTO kriteria (nama\_kriteria,atribut,bobot)  VALUES (:nama\_kriteria, :atribut, :bobot)";  $this->query($query);  $this->bind(':nama\_kriteria', $data['nama\_kriteria']);  $this->bind(':atribut', $data['atribut']);  $this->bind(':bobot', $data['bobot']);  $this->execute();  return $this->rowCount();  }  public function edit\_kriteria($data){  try{  $query = "UPDATE kriteria SET nama\_kriteria = :nama\_kriteria,atribut = :atribut,bobot = :bobot  WHERE id\_kriteria = :id\_kriteria";  $this->query($query);  $this->bind(':id\_kriteria', $data['id\_kriteria']);  $this->bind(':nama\_kriteria', $data['nama\_kriteria']);  $this->bind(':atribut', $data['atribut']);  $this->bind(':bobot', $data['bobot']);  $this->execute();  return $data;  }catch(PDOException $e){  return $e->getMessage();  }  }  public function hapus\_kriteria($id){  $query = "DELETE FROM kriteria  WHERE id\_kriteria=:id";  $this->query($query);  $this->bind(':id', $id);  $this->execute();  return $this->rowCount();  }  } |

## **NilaialternatifModel.php**

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| <?php  class NilaialternatifModel extends Database{  public function nilai\_alternatif($id\_alternatif){  $query = 'SELECT na.\*, a.\*, k.\* FROM nilai\_alternatif as na JOIN alternatif as a on a.id\_alternatif=na.id\_alternatif JOIN kriteria as k on k.id\_kriteria=na.id\_kriteria WHERE na.id\_alternatif = :id\_alternatif ORDER BY na.id\_kriteria ASC';  $this->query($query);  $this->bind(':id\_alternatif', $id\_alternatif);  return $this->resultset();  }  public function tambah\_nilai\_alternatif($nilai, $id\_alternatif){  try{  $query = "INSERT INTO nilai\_alternatif (id\_alternatif, id\_kriteria, nilai) VALUES (:id\_alternatif, :id\_kriteria, :nilai)";  foreach ($nilai as $key => $n){  $this->query($query);  $this->bind(':id\_alternatif', $id\_alternatif);  $this->bind(':id\_kriteria', $key);  $this->bind(':nilai', $n);  $this->execute();  }  return true;  }catch(PDOException $e){  return $e->getMessage();  }  }  public function detail\_nilai\_alternatif($id\_alternatif){  $query = 'SELECT k.id\_kriteria,k.nama\_kriteria, SELECT nilai FROM nilai\_alternatif WHERE id\_kriteria=k.id\_kriteria AND id\_alternatif=:id\_alternatif LIMIT 1) AS nilai FROM kriteria AS k';  $this->query($query);  $this->bind(':id\_alternatif', $id\_alternatif);  return $this->resultset();  }  public function cekKriteria($id\_alternatif, $key){  $sqlCekData = "SELECT \* FROM nilai\_alternatif WHERE id\_alternatif=:id\_alternatif AND id\_kriteria=:id\_kriteria";  $this->query($sqlCekData);  $this->bind(':id\_alternatif', $id\_alternatif);  $this->bind(':id\_kriteria', $key);  return $this->single();  }  public function edit\_nilai\_alternatif($nilai, $id\_alternatif) {  try{  $query = "UPDATE nilai\_alternatif SET nilai=:nilai WHERE id\_alternatif = :id\_alternatif AND id\_kriteria=:id\_kriteria";  foreach ($nilai as $key => $n){  if (!$this->cekKriteria($id\_alternatif, $key)){  $query = "INSERT INTO nilai\_alternatif (id\_alternatif, id\_kriteria, nilai) VALUES (:id\_alternatif, :id\_kriteria, :nilai)";  }  $this->query($query);  $this->bind(':id\_alternatif', $id\_alternatif);  $this->bind(':id\_kriteria', $key);  $this->bind(':nilai', $n);  $this->execute();  }  return true;  }catch(PDOException $e){  return $e->getMessage();  }  }  public function hapus\_nilai\_alternatif($id){  $query = "DELETE FROM nilai\_alternatif  WHERE id\_alternatif=:id";  $this->query($query);  $this->bind(':id', $id);  $this->execute();  return $this->rowCount();  }  } |

## **UsersModel.php**

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| --- |
| <?php  class UserModel extends Database{  public function semua\_user(){  $query = 'SELECT \* FROM users';  $this->query($query);  return $this->resultset();  }  public function login($data){  $query = 'SELECT \* FROM users  WHERE username=:username AND password=:pwd';  $this->query($query);  $this->bind(':username', $data['username']);  $this->bind(':pwd', $data['password']);  $result = $this->single();  return $result;  }  public function detail\_user($id) {  $query = 'SELECT \* FROM users WHERE id\_user=:id';  $this->query($query);  $this->bind(':id', $id);  return $this->single();  }  public function cek\_username($username){  try{  $query = 'SELECT \* FROM users WHERE username=:username';  $this->query($query);  $this->bind(':username', $username);  return $this->single();  }catch(PDOException $e){  return $e->getMessage();  }  }  public function tambah\_user($data){  $query = "INSERT INTO users (username,password)  VALUES (:username, :password)";  $this->query($query);  $this->bind(':username', $data['username']);  $this->bind(':password', md5($data['password']));  $this->execute();  return $this->rowCount();  }  public function edit\_user($data){  try{  if ($data['password'] == '' && $data['password'] == NULL){  $query = "UPDATE users SET username = :username  WHERE id\_user = :id\_user";  }else{  $query = "UPDATE users SET username = :username,password=:password  WHERE id\_user = :id\_user";  }  $this->query($query);  $this->bind(':id\_user', $data['id\_user']);  if ($data['password'] != '' && $data['password'] != NULL){  $this->bind(':password', md5($data['password']));  }  $this->bind(':username', $data['username']);  $this->execute();  return $data;  }catch(PDOException $e){  return $e->getMessage();  }  }  public function hapus\_user($id){  $query = "DELETE FROM users WHERE id\_user=:id";  $this->query($query);  $this->bind(':id', $id);  $this->execute();  return $this->rowCount();  }  } |

**LAMPIRAN GAMBAR RELASI TABEL**

