Tugas TeoriPemrograman Berbasis Web



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/config/Database.php

```
<?php
class Database {
    private Shost = "localhost";
    private Sdb_name = "perpustakaan";
    private Susername = "root";
    private Spassword = "";
    public Sconn;

public function getConnection() {
        Sthis->conn = new PDO("mysql:host=" . Sthis->host . ";dbname=" . Sthis->db_name,
        Sthis->conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
        } catch(PDOException Sexception) {
            ccho "Connection error: " . Sexception->getMessage();
        }
        return Sthis->conn;
    }
}
```

/controller/BukuController.php

```
<?php
include_once './config/Database.php';
include_once './models/Buku.php';
class BukuController {
  private $buku;
 public function __construct() {
    $database = new Database();
    $db = $database->getConnection();
    $this->buku = new Buku($db);
  public function create($judul, $pengarang, $tahun_terbit, $jumlah) {
    $this->buku->judul = $judul;
    $this->buku->pengarang = $pengarang;
    $this->buku->tahun terbit = $tahun terbit;
    $this->buku->jumlah = $jumlah;
    return $this->buku->create();
  public function readAll() {
    return $this->buku->readAll();
  public function delete($id) {
    \$this->buku->id = \$id;
    return $this->buku->delete();
  public function update($id, $judul, $pengarang, $tahun terbit, $isbn, $jumlah) {
    $this->buku->id = $id;
    $this->buku->judul = $judul;
    $this->buku->pengarang = $pengarang;
    $this->buku->tahun_terbit = $tahun_terbit;
    $this->buku->isbn = $isbn;
    $this->buku->jumlah = $jumlah;
    return $this->buku->update();
```

/controller/PeminjamanController.php

```
<?php
include_once './config/Database.php';
include_once './models/Peminjaman.php';
class PeminjamanController {
 private $peminjaman;
 public function __construct() {
    $database = new Database();
    $db = $database->getConnection();
    $this->peminjaman = new Peminjaman($db);
 public function create($id_buku, $id_user, $tanggal_pinjam, $tanggal_kembali) {
    $this->peminjaman->id buku = $id buku;
    $this->peminjaman->id_user = $id_user;
    $this->peminjaman->tanggal pinjam = $tanggal pinjam;
    $this->peminjaman->tanggal_kembali = $tanggal_kembali;
    return $this->peminjaman->create();
 public function readAll() {
    return $this->peminjaman->readAll();
 public function updateStatus($id, $status) {
    return $this->peminjaman->updateStatus($id, $status);
```

/controller/UserController.php

```
<?php
include_once './config/Database.php';
include_once './models/User.php';
class UserController {
 private $user;
 public function __construct() {
    $database = new Database();
    $db = $database->getConnection();
    \$this->user = new User(\$db);
  public function create($nama, $email) { // Hapus password dari parameter
    $this->user->nama = $nama;
    $this->user->email = $email;
    return $this->user->create();
  public function readAll() {
    return $this->user->readAll();
  public function delete($id) {
    return $this->user->delete();
```

/models/Buku.php

```
<?php
class Buku {
 private $conn;
 private $table_name = "buku";
  public $id;
  public $judul;
  public $pengarang;
  public $tahun_terbit;
  public $isbn;
  public $jumlah;
  public $created_at;
  public function __construct($db) {
    $this->conn = $db;
  public function create() {
    $query = "INSERT INTO" . $this->table_name . " SET judul=:judul, pengarang=:pengarang,
tahun terbit=:tahun terbit, isbn=:isbn, jumlah=:jumlah";
    $stmt = $this->conn->prepare($query);
    $this->judul = htmlspecialchars(strip_tags($this->judul));
    $this->pengarang = htmlspecialchars(strip_tags($this->pengarang));
    $this->tahun_terbit = htmlspecialchars(strip_tags($this->tahun_terbit));
    $this->isbn = htmlspecialchars(strip_tags($this->isbn));
    $this->jumlah = htmlspecialchars(strip tags($this->jumlah));
    $stmt->bindParam(":judul", $this->judul);
    $stmt->bindParam(":pengarang", $this->pengarang);
    $stmt->bindParam(":tahun terbit", $this->tahun terbit);
    $stmt->bindParam(":isbn", $this->isbn);
    $stmt->bindParam(":jumlah", $this->jumlah);
    if ($stmt->execute()) {
       return true;
    return false;
  public function readAll() {
    $query = "SELECT * FROM " . $this->table_name . " ORDER BY created_at DESC";
```

```
$stmt = $this->conn->prepare($query);
    $stmt->execute();
    return $stmt;
  public function delete() {
    $query = "DELETE FROM " . $this->table_name . " WHERE id = ?";
    $stmt = $this->conn->prepare($query);
    $stmt->bindParam(1, $this->id);
    if ($stmt->execute()) {
       return true;
    return false;
  public function update() {
    $query = "UPDATE" . $this->table_name . " SET judul=:judul, pengarang=:pengarang,
tahun_terbit=:tahun_terbit, isbn=:isbn, jumlah=:jumlah WHERE id=:id";
    $stmt = $this->conn->prepare($query);
    $this->judul = htmlspecialchars(strip tags($this->judul));
    $this->pengarang = htmlspecialchars(strip_tags($this->pengarang));
    $this->tahun terbit = htmlspecialchars(strip tags($this->tahun terbit));
    $this->isbn = htmlspecialchars(strip_tags($this->isbn));
    $this->jumlah = htmlspecialchars(strip tags($this->jumlah));
    $this->id = htmlspecialchars(strip_tags($this->id));
    $stmt->bindParam(":judul", $this->judul);
    $stmt->bindParam(":pengarang", $this->pengarang);
    $stmt->bindParam(":tahun terbit", $this->tahun terbit);
    $stmt->bindParam(":isbn", $this->isbn);
    $stmt->bindParam(":jumlah", $this->jumlah);
    $stmt->bindParam(":id", $this->id);
    if ($stmt->execute()) {
       return true;
    return false;
```

/models/Peminjaman.php

```
<?php
class Peminjaman {
 private $conn;
 private $table_name = "peminjaman";
 public $id;
 public $id_buku;
 public $id user;
 public $tanggal_pinjam;
 public $tanggal kembali;
 public $status peminjaman;
 public $created_at;
 public function __construct($db) {
    $this->conn = $db;
 public function create() {
    $query = "INSERT INTO " . $this->table_name . " SET id_user=:id_user, id_buku=:id_buku,
tanggal pinjam=:tanggal pinjam, tanggal kembali=:tanggal kembali,
status_peminjaman=:status_peminjaman";
    $stmt = $this->conn->prepare($query);
    // Mengikat parameter
    $stmt->bindParam(":id_user", $this->id_user);
    $stmt->bindParam(":id_buku", $this->id_buku);
    $stmt->bindParam(":tanggal pinjam", $this->tanggal pinjam);
    $stmt->bindParam(":tanggal_kembali", $this->tanggal_kembali);
    $stmt->bindParam(":status_peminjaman", $this->status_peminjaman);
    if ($stmt->execute()) {
      return true;
    return false;
 public function readAll() {
    $query = "SELECT * FROM " . $this->table name . " ORDER BY created at DESC";
    $stmt = $this->conn->prepare($query);
    $stmt->execute();
    return $stmt;
```

```
public function updateStatus($id, $status) {
    $query = "UPDATE " . $this->table_name . " SET status_peminjaman=:status WHERE id=:id";
    $stmt = $this->conn->prepare($query);

$stmt->bindParam(":status", $status);
    $stmt->bindParam(":id", $id);

if ($stmt->execute()) {
    return true;
    }
    return false;
}
```

/models/User.php

```
<?php
class User {
 private $conn;
 private $table_name = "users"; // Pastikan nama tabelnya sesuai
 public $id;
 public $nama;
 public $email;
 public function __construct($db) {
    $this->conn = $db;
 public function create() {
    $query = "INSERT INTO " . $this->table_name . " SET nama=:nama, email=:email";
    $stmt = $this->conn->prepare($query);
    $this->nama = htmlspecialchars(strip_tags($this->nama));
    $this->email = htmlspecialchars(strip_tags($this->email));
    $stmt->bindParam(":nama", $this->nama);
    $stmt->bindParam(":email", $this->email);
    if ($stmt->execute()) {
       return true;
    return false;
```

```
public function readAll() {
    Squery = "SELECT * FROM " . Sthis->table_name;
    Sstmt = Sthis->conn->prepare(Squery);
    Sstmt->execute();
    return Sstmt;
}

public function delete() {
    Squery = "DELETE FROM " . Sthis->table_name . " WHERE id = ?";
    Sstmt = Sthis->conn->prepare(Squery);
    Sstmt->bindParam(1, Sthis->id);

if ($stmt->execute()) {
    return true;
    }
    return false;
}
```

/style/style.css

```
/* General Styles */
body {
font-family: Arial, sans-serif;
background-color: #f4f4f4;
margin: 0;
padding: 20px;
}

/* Form Styles */
form {
background-color: #fff;
padding: 20px;
border: Ipx solid #cce;
border-radius: 8px;
max-width: 400px;
margin: 0 auto;
box-shadow: 0px 4px 6px rgba(0, 0, 0, 0.1);
}

form h2 {
margin-bottom: 15px;
color: #333;
text-align: center;
}

label {
display: block;
```

```
margin-bottom: 8px;
input[type="text"],
input[type="email"] {
 padding: 10px;
input[type="submit"] {
 background-color: #28a745;
input[type="submit"]:hover {
 background-color: #218838;
/* Table Styles */
table {
 margin-top: 20px;
 border-collapse: collapse;
 background-color: #fff;
 box-shadow: 0px 4px 6px rgba(0, 0, 0, 0.1);
 padding: 12px;
 text-align: left;
th {
 background-color: #4CAF50;
 background-color: #f1f1f1;
tr:nth-child(even) {
 background-color: #f9f9f9;
```

/views/buku form.php

/views/bukulist.php

```
<h2>Daftar Buku</h2>
      Judul
      Pengarang
      Tahun Terbit
      Jumlah
   $BukuController->readAll()->fetch(PDO::FETCH ASSOC)) { ?>
         <?php echo htmlspecialchars($row['judul']); ?>
         <?php echo htmlspecialchars($row['pengarang']);
?>
         <?php echo htmlspecialchars($row['tahun terbit']);</pre>
?>
         <?php echo htmlspecialchars($row['jumlah']); ?>
      <?php } ?>
 /table>
```

/views/peminjaman form,php

/views/peminjamanlist,php

/views/user_form.php

/views/userlist.php

Database (♦) (C) (D) (M) localhost / 127.0.0.1 / perpustaka × 🔞 localhost/teori4/index.php $\leftarrow \quad \bigcirc \quad \bigcirc \quad \boxed{ \bigcirc \quad localhost/phpmyadmin/index.php?route=/database/structure\&db=perpustakaan} \\$ phpMyAdmin 📝 Structure 🗵 SQL 🔍 Search 📵 Query 🚍 Export 逼 Import 🤌 Operations 💌 Privileges 🖓 Routines 🕒 Events Recent Favorites Filters (= co - New Containing the word: H- buku tamu +- cth3 F- deri Table Action Rows (i) Type Collation Size Overhead +- information schema □ buku 👚 📰 Browse 📝 Structure 🍳 Search 👫 Insert 🖷 Empty 🥥 Drop 0 InnoDB utf8mb4 general ci 16.0 KiB F- inventaris peminjaman 🌟 🖫 Browse 🎉 Structure 👒 Search 👫 Insert 🚃 Empty 🤤 Drop 0 InnoDB utf8mb4_general_ci 48.0 KiB - mysal users m Browse M Structure Research M Insert m Empty Drop 0 InnoDB utf8mb4_general_ci 32.0 KiB performance schema 3 tables 0 InnoDB utf8mb4_general_ci 96.0 KiB 0 B perpustakaan With selected: Check all +- buku - yeminjaman A Print B Data dictionary +- users O 🏨 localhost / 127.0.0.1 / perpustaka × 💢 localhost/teori4/index.php \mathbb{C} (i) localhost/phpmyadmin/index.php?route=/sql&pos=0&db=perpustakaan&table 🗐 Server: 127.0.0.1 » 🧻 Database: perpustakaan » 📊 Table: buku phpMyAdmin M Structure ■ SQL Search **¾** Insert Browse Recent Favorites **—** 60 - New SELECT * FROM `buku` ⊕- buku_tamu Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh] ⊕-□ cth3 ⊕- deri id judul penulis tahun_terbit created_at pengarang information_schema ⊕−□ inventaris Query results operations ⊕−□ mysql performance_schema Create view perpustakaan -- New 🛨 🌃 buku 🕀 🥍 peminjaman users



