**Prak. Pemrograman Berbasis Web**

Untuk Memenuhi Tugas Prak. Pemrograman Berbasis Web

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**Soure Code**

**mvc/config.php**

<?php

define('DB\_HOST', 'localhost');

define('DB\_USER', 'root');

define('DB\_PASS', '');

define('DB\_NAME', 'projectmvc');

// BASEURL untuk memudahkan penulisan URL

define('BASEURL', 'http://localhost/mvc/');

**mvc/index.php**

<?php

session\_start();

require\_once 'config.php';

require\_once 'core/App.php';

require\_once 'core/Controller.php';

require\_once 'core/Database.php';

$app = new App();

**mvc/controllers/AdminController.php**

<?php

class AdminController extends Controller {

    public function \_\_construct() {

        if (!isset($\_SESSION['user'])) {

            header('Location: ' . BASEURL . 'index.php?url=login/index');

            exit;

        }

    }

    public function index() {

        $data['title'] = 'Admin';

        $data['items'] = $this->model('ItemModel')->getAllItems();

        $this->view('templates/header', $data);

        $this->view('admin/index', $data);

        $this->view('templates/footer');

    }

    public function add() {

        $data['title'] = 'Tambah Barang';

        $this->view('templates/header', $data);

        $this->view('admin/add');

        $this->view('templates/footer');

    }

    public function store() {

        if ($this->model('ItemModel')->addItem($\_POST) > 0) {

            header('Location: ' . BASEURL . 'index.php?url=admin/index');

        } else {

            echo "Gagal menambahkan data.";

        }

    }

    public function edit($id) {

        $data['title'] = 'Edit Barang';

        $data['item'] = $this->model('ItemModel')->getItemById($id);

        $this->view('templates/header', $data);

        $this->view('admin/edit', $data);

        $this->view('templates/footer');

    }

    public function update() {

        if ($this->model('ItemModel')->updateItem($\_POST) > 0) {

            header('Location: ' . BASEURL . 'index.php?url=admin/index');

        } else {

            echo "Gagal mengubah data.";

        }

    }

    public function delete($id) {

        if ($this->model('ItemModel')->deleteItem($id) > 0) {

            header('Location: ' . BASEURL . 'index.php?url=admin/index');

        } else {

            echo "Gagal menghapus data.";

        }

    }

}

**mvc/controllers/HomeController.php**

<?php

class HomeController extends Controller {

    public function index() {

        $data['title'] = 'Home';

        $this->view('templates/header', $data);

        $this->view('home/index', $data);

        $this->view('templates/footer');

    }

}

**mvc/controllers/LoginController.php**

<?php

class LoginController extends Controller {

    public function index() {

        $data['title'] = 'Login';

        $this->view('templates/header', $data);

        $this->view('login/index');

        $this->view('templates/footer');

    }

    public function auth() {

        $username = $\_POST['username'];

        $password = $\_POST['password'];

        // Misal autentikasi sederhana tanpa database

        if ($username === 'admin' && $password === 'admin') {

            $\_SESSION['user'] = $username;

            header('Location: ' . BASEURL . 'index.php?url=admin/index');

        } else {

            header('Location: ' . BASEURL . 'index.php?url=login/index');

        }

    }

    public function logout() {

        session\_destroy();

        header('Location: ' . BASEURL . 'index.php');

    }

}

**mvc/core/App.php**

<?php

class App {

    protected $controller = 'HomeController';

    protected $method = 'index';

    protected $params = [];

    public function \_\_construct() {

        $url = $this->parseURL();

        // Controller

        if (isset($url[0]) && file\_exists('controllers/' . $url[0] . 'Controller.php')) {

            $this->controller = $url[0] . 'Controller';

            unset($url[0]);

        }

        require\_once 'controllers/' . $this->controller . '.php';

        $this->controller = new $this->controller;

        // Method

        if (isset($url[1])) {

            if (method\_exists($this->controller, $url[1])) {

                $this->method = $url[1];

                unset($url[1]);

            }

        }

        // Parameters

        $this->params = $url ? array\_values($url) : [];

        // Call method and pass parameters

        call\_user\_func\_array([$this->controller, $this->method], $this->params);

    }

    public function parseURL() {

        if (isset($\_GET['url'])) {

            $url = rtrim($\_GET['url'], '/');

            $url = filter\_var($url, FILTER\_SANITIZE\_URL);

            $url = explode('/', $url);

            return $url;

        }

        return [];

    }

}

**mvc/core/controller.php**

<?php

class Controller {

    public function model($model) {

        require\_once 'models/' . $model . '.php';

        return new $model();

    }

    public function view($view, $data = []) {

        require\_once 'views/' . $view . '.php';

    }

}

**mvc/core/database.php**

<?php

class Database {

    private $host = DB\_HOST;

    private $user = DB\_USER;

    private $pass = DB\_PASS;

    private $dbname = DB\_NAME;

    private $dbh;

    private $stmt;

    public function \_\_construct() {

        $dsn = 'mysql:host=' . $this->host . ';dbname=' . $this->dbname;

        $options = [

            PDO::ATTR\_PERSISTENT => true,

            PDO::ATTR\_ERRMODE => PDO::ERRMODE\_EXCEPTION

        ];

        try {

            $this->dbh = new PDO($dsn, $this->user, $this->pass, $options);

        } catch (PDOException $e) {

            die($e->getMessage());

        }

    }

    public function query($query) {

        $this->stmt = $this->dbh->prepare($query);

    }

    public function bind($param, $value, $type = null) {

        if (is\_null($type)) {

            switch (true) {

                case is\_int($value):

                    $type = PDO::PARAM\_INT;

                    break;

                case is\_bool($value):

                    $type = PDO::PARAM\_BOOL;

                    break;

                case is\_null($value):

                    $type = PDO::PARAM\_NULL;

                    break;

                default:

                    $type = PDO::PARAM\_STR;

            }

        }

        $this->stmt->bindValue($param, $value, $type);

    }

    public function execute() {

        $this->stmt->execute();

    }

    public function resultSet() {

        $this->execute();

        return $this->stmt->fetchAll(PDO::FETCH\_ASSOC);

    }

    public function single() {

        $this->execute();

        return $this->stmt->fetch(PDO::FETCH\_ASSOC);

    }

    public function rowCount() {

        return $this->stmt->rowCount();

    }

}

**mvc/models/itemmodel.php**

<?php

class ItemModel {

    private $table = 'items';

    private $db;

    public function \_\_construct() {

        $this->db = new Database();

    }

    public function getAllItems() {

        $this->db->query("SELECT \* FROM " . $this->table);

        return $this->db->resultSet();

    }

    public function addItem($data) {

        $query = "INSERT INTO " . $this->table . " (nama, stok, harga) VALUES (:nama, :stok, :harga)";

        $this->db->query($query);

        $this->db->bind('nama', $data['nama']);

        $this->db->bind('stok', $data['stok']);

        $this->db->bind('harga', $data['harga']);

        $this->db->execute();

        return $this->db->rowCount();

    }

    public function getItemById($id) {

        $this->db->query("SELECT \* FROM " . $this->table . " WHERE id = :id");

        $this->db->bind('id', $id);

        return $this->db->single();

    }

    public function updateItem($data) {

        $query = "UPDATE " . $this->table . " SET nama = :nama, stok = :stok, harga = :harga WHERE id = :id";

        $this->db->query($query);

        $this->db->bind('nama', $data['nama']);

        $this->db->bind('stok', $data['stok']);

        $this->db->bind('harga', $data['harga']);

        $this->db->bind('id', $data['id']);

        $this->db->execute();

        return $this->db->rowCount();

    }

    public function deleteItem($id) {

        $query = "DELETE FROM " . $this->table . " WHERE id = :id";

        $this->db->query($query);

        $this->db->bind('id', $id);

        $this->db->execute();

        return $this->db->rowCount();

    }

}

**mvc/views/admin/add.php**

<link rel="stylesheet" href="<?= BASEURL; ?>assets/css/login.css">

<form action="<?= BASEURL; ?>index.php?url=admin/store" method="POST">

<h2>Tambah Barang</h2>

    <label for="nama">Nama:</label><br>

    <input type="text" name="nama" id="nama" required><br><br>

    <label for="stok">Stok:</label><br>

    <input type="number" name="stok" id="stok" required><br><br>

    <label for="harga">Harga:</label><br>

    <input type="number" name="harga" id="harga" required><br><br>

    <button type="submit">Simpan</button>

</form>

**mvc/views/admin/edit.php**

<link rel="stylesheet" href="<?= BASEURL; ?>assets/css/login.css">

<form action="<?= BASEURL; ?>index.php?url=admin/update" method="POST">

<h2>Edit Barang</h2>

<input type="hidden" name="id" value="<?= $data['item']['id']; ?>">

    <label for="nama">Nama:</label><br>

    <input type="text" name="nama" id="nama" value="<?= $data['item']['nama']; ?>" required><br><br>

    <label for="stok">Stok:</label><br>

    <input type="number" name="stok" id="stok" value="<?= $data['item']['stok']; ?>" required><br><br>

    <label for="harga">Harga:</label><br>

    <input type="number" name="harga" id="harga" value="<?= $data['item']['harga']; ?>" required><br><br>

    <button type="submit">Update</button>

</form>

**mvc/views/admin/index.php**

<link rel="stylesheet" href="<?= BASEURL; ?>assets/css/admin.css">

<a href="<?= BASEURL; ?>index.php?url=admin/add">Tambah Barang</a> | <a href="<?= BASEURL; ?>index.php?url=login/logout">Logout</a>

<table border="1" cellpadding="10" cellspacing="0">

    <tr>

        <th>ID</th>

        <th>Nama</th>

        <th>Stok</th>

        <th>Harga</th>

        <th>Aksi</th>

    </tr>

    <?php foreach ($data['items'] as $item): ?>

    <tr>

        <td><?= $item['id']; ?></td>

        <td><?= $item['nama']; ?></td>

        <td><?= $item['stok']; ?></td>

        <td><?= $item['harga']; ?></td>

        <td>

            <a href="<?= BASEURL; ?>index.php?url=admin/edit/<?= $item['id']; ?>">Edit</a> |

            <a href="<?= BASEURL; ?>index.php?url=admin/delete/<?= $item['id']; ?>" onclick="return confirm('Yakin ingin menghapus data ini?');">Hapus</a>

        </td>

    </tr>

    <?php endforeach; ?>

</table>

**mvc/views/home/index.php**

<h1>Selamat Datang di Aplikasi Penjualan Barang</h1>

<link rel="stylesheet" href="<?= BASEURL; ?>assets/css/home.css">

<p></p>

<a href="<?= BASEURL; ?>index.php?url=login/index">Login</a>

**mvc/views/login/index.php**

<link rel="stylesheet" href="<?= BASEURL; ?>assets/css/login.css">

<form action="<?= BASEURL; ?>index.php?url=login/auth" method="POST">

    <input type="text" name="username" placeholder="Username" required><br>

    <input type="password" name="password" placeholder="Password" required><br>

    <button type="submit">Login</button>

</form>

**mvc/views/templates/footer.php**

</body>

</html>

**mvc/views/templates/header.php**

<!DOCTYPE html>

<html>

<head>

    <title><?= $data['title']; ?></title>

</head>

<body>

**mvc/assets/css/add.css**

body {

    font-family: Arial, sans-serif;

    background-color: #f4f4f4;

    display: flex;

    justify-content: center;

    align-items: center;

    height: 100vh;

    margin: 0;

}

.container {

    background-color: white;

    padding: 30px;

    border-radius: 8px;

    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

    width: 300px;

}

h2 {

    color: #333;

    text-align: center;

    margin-bottom: 20px;

}

form {

    display: flex;

    flex-direction: column;

}

label {

    margin-bottom: 5px;

    color: #555;

}

input[type="text"],

input[type="number"] {

    width: 100%;

    padding: 8px;

    margin-bottom: 15px;

    border: 1px solid #ddd;

    border-radius: 4px;

    box-sizing: border-box;

}

button {

    background-color: #4CAF50;

    color: white;

    padding: 10px;

    border: none;

    border-radius: 4px;

    cursor: pointer;

    font-size: 16px;

    transition: background-color 0.3s;

}

button:hover {

    background-color: #45a049;

}

**mvc/assets/css/admin.css**

body {

    font-family: 'Poppins', sans-serif;

    background-color: #717172;

    padding: 20px;

    margin: 0;

    color: #333;

}

h2 {

    color: #333;

    font-size: 28px;

    margin-bottom: 20px;

}

a {

    color: white;

    background-color: #007bff;

    padding: 10px 15px;

    border-radius: 5px;

    text-decoration: none;

    margin-right: 10px;

    transition: background 0.3s;

}

a:hover {

    background-color: #0056b3;

}

a + a {

    background-color:  #0056b3;

}

a + a:hover {

    background-color: #c82333;

}

table {

    width: 100%;

    border-collapse: collapse;

    background-color: white;

    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

    border-radius: 8px;

    overflow: hidden;

}

th, td {

    padding: 15px;

    text-align: left;

}

th {

    background-color: #007bff;

    color: white;

    text-transform: uppercase;

}

tr:nth-child(even) {

    background-color: #f2f2f2;

}

tr:hover {

    background-color: #e9e9e9;

}

table, th, td {

    border: 1px solid #ddd;

}

td a {

    color: #007bff;

    background-color: transparent;

    padding: 5px 10px;

    text-decoration: none;

    border: 1px solid #007bff;

    border-radius: 4px;

    font-size: 14px;

    transition: background 0.3s, color 0.3s;

}

td a:hover {

    background-color: #007bff;

    color: white;

}

footer {

    margin-top: 20px;

    color: #555;

    font-size: 14px;

    text-align: center;

}

@media (max-width: 768px) {

    table {

        width: 100%;

    }

    th, td {

        font-size: 14px;

        padding: 10px;

    }

    a {

        font-size: 14px;

        padding: 8px 12px;

    }

}

**mvc/assets/css/edit.css**

body {

    font-family: 'Poppins', sans-serif;

    background: linear-gradient(135deg, #f0f0f0, #e0e0e0);

    display: flex;

    justify-content: center;

    align-items: center;

    height: 100vh;

    margin: 0;

}

form {

    background: #ffffff;

    border-radius: 15px;

    box-shadow: 0 8px 20px rgba(0, 0, 0, 0.1);

    padding: 40px;

    width: 400px;

    text-align: left;

}

h2 {

    color: #4CAF50;

    font-size: 28px;

    font-weight: 700;

    text-align: center;

    letter-spacing: 1px;

    margin-bottom: 30px;

    text-transform: uppercase;

}

label {

    font-size: 16px;

    color: #333;

    margin-bottom: 5px;

    display: block;

}

input[type="text"],

input[type="number"] {

    width: 100%;

    padding: 12px;

    margin: 10px 0 20px 0;

    border: 1px solid #ccc;

    border-radius: 8px;

    font-size: 16px;

    color: #333;

    box-sizing: border-box;

    transition: border-color 0.3s, box-shadow 0.3s;

}

input[type="text"]:focus,

input[type="number"]:focus {

    border-color: #007BFF;

    box-shadow: 0 0 5px rgba(0, 123, 255, 0.5);

    outline: none;

}

button[type="submit"] {

    background: linear-gradient(135deg, #4CAF50, #388E3C);

    color: white;

    padding: 15px;

    width: 100%;

    border: none;

    border-radius: 10px;

    font-size: 18px;

    font-weight: bold;

    cursor: pointer;

    transition: background 0.3s, transform 0.2s, box-shadow 0.2s;

}

button[type="submit"]:hover {

    background: linear-gradient(135deg, #45A049, #2E7D32);

    transform: translateY(-2px);

    box-shadow: 0 5px 15px rgba(0, 0, 0, 0.2);

}

@media (max-width: 600px) {

    form {

        width: 90%;

        padding: 30px;

    }

}

**mvc/assets/css/home.css**

body {

    font-family: 'Poppins', sans-serif;

    background-color: #e0e0e0;

    display: flex;

    justify-content: center;

    align-items: center;

    height: 100vh;

    margin: 0;

    flex-direction: column;

    text-align: center;

}

h1 {

    font-size: 40px;

    color: #333;

    margin-bottom: 20px;

    text-transform: uppercase;

    letter-spacing: 2px;

    position: relative;

}

h1::after {

    content: '';

    width: 150px;

    height: 4px;

    background-color: #007bff;

    display: block;

    margin: 10px auto;

}

p {

    font-size: 18px;

    color: #666;

    margin-bottom: 40px;

    font-style: italic;

}

a {

    text-decoration: none;

    color: white;

    background-color: #007bff;

    padding: 15px 30px;

    border-radius: 30px;

    font-size: 18px;

    font-weight: bold;

    transition: background-color 0.3s, transform 0.3s;

    box-shadow: 0 5px 15px rgba(0, 0, 0, 0.1);

}

a:hover {

    background-color: #0056b3;

    transform: scale(1.05);

}

a:active {

    transform: scale(0.95);

}

footer {

    margin-top: 50px;

    color: #999;

    font-size: 14px;

    text-align: center;

}

@media (max-width: 768px) {

    h1 {

        font-size: 30px;

    }

    p {

        font-size: 16px;

    }

    a {

        font-size: 16px;

        padding: 12px 25px;

    }

}

**mvc/assets/css/login.css**

body {

    font-family: 'Poppins', sans-serif;

    background: linear-gradient(135deg, rgb(111, 103, 106), #e0e0e0);

    display: flex;

    justify-content: center;

    align-items: center;

    height: 100vh;

    margin: 0;

}

form {

    background: rgba(255, 255, 255, 0.4);

    backdrop-filter: blur(10px);

    padding: 40px;

    border-radius: 15px;

    box-shadow: 0 8px 32px rgba(31, 38, 135, 0.37);

    width: 350px;

    text-align: center;

    border: 1px solid rgba(255, 255, 255, 0.18);

}

h2 {

    margin-bottom: 25px;

    color: white;

    font-size: 26px;

    font-weight: bold;

    letter-spacing: 1px;

}

input[type="text"],

input[type="password"] {

    width: 100%;

    padding: 15px;

    margin: 15px 0;

    border: none;

    border-radius: 10px;

    box-sizing: border-box;

    font-size: 16px;

    background: rgba(255, 255, 255, 0.7);

    color: #333;

    transition: background 0.3s, box-shadow 0.3s;

    outline: none;

}

input[type="text"]::placeholder,

input[type="password"]::placeholder {

    color: rgba(0, 0, 0, 0.5);

}

/\* Focus state styling \*/

input[type="text"]:focus,

input[type="password"]:focus {

    background: rgba(255, 255, 255, 0.85);

    box-shadow: 0 0 15px rgba(255, 255, 255, 0.5);

    color: #000;

}

button[type="submit"] {

    background: linear-gradient(135deg, #4b6cb7, #182848);

    color: white;

    padding: 12px;

    width: 100%;

    border: none;

    border-radius: 10px;

    font-size: 18px;

    font-weight: bold;

    cursor: pointer;

    transition: background 0.3s, transform 0.2s;

}

button[type="submit"]:hover {

    background: linear-gradient(135deg, #3a539b, #1e2a47);

    transform: translateY(-3px);

}

footer {

    margin-top: 15px;

    color: white;

    font-size: 14px;

}

@media (max-width: 600px) {

    form {

        width: 85%;

        padding: 30px;

    }

}

**mvs/README.md**

**### TAMBAHKAN LAPORAN KAMU DI SINI**

**### AKHIR LAPORAN**

**## Screenshot**

**### Halaman Home**

![Halaman Home](screenshots/home.png)

**### Form Login**

![Form Login](screenshots/login.png)

**### Halaman Admin**

![Halaman Admin](screenshots/admin.png)

**### Tambah Barang**

![Tambah Barang](screenshots/add.png)

**### Edit Barang**

![Edit Barang](screenshots/edit.png)

**## Kontribusi**

Dibuat oleh [Muhamad Suhuddin Jaballul Karim].

**## Lisensi**

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