Tugas Praktikun Pemrograman Berbasis Web
Prak. Pemrograman Berbasis Web - A

Disusun Oleh :

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index.php

```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()
        ;
```

config.php

```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/');
```

controllers/AdminController.php

```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');
    }
```

```php
    public function add() {
        $data['title'] = 'Tambah Barang';
        $this->view('templates/header', $data) ;
```

```php
        $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.";
        }
    }
}
```

controllers/HomeController.php

```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');
    }
}
```

controllers/LoginController.php

```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        auth() {
    function
        $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() ;
```

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

core/App.php

```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 [] ;
    }
}
```

core/Controller.php

```php
< ?php
class Controller {
    public function model($model) {
        require_once 'models/' . $mode l . '.php';
        return new $model() ;
    }

    public function           $data = []) {
    view($view,
        require_once 'views/' . $view . '.php';
    }
}
```

core/Database.php

```php
< ?php
class Database {
    private $host = DB_HOST;
    private $user = DB_USER;
    private $pass = DB_PASS;
    private $dbnam  = DB_NAME;
            e

    private $dbh;
    private $stmt;

    public f        __construct() {
    unction
        $dsn = 'mysql:host=' . $this->host . ';dbname=' . $this->dbname;
        $options = [
            PDO::ATTR_PERSISTENT => true,
            PDO::ATTR_ERRMODE => PDO::E RRMODE_EXCEPTION
        ] ;

        try {
```

```php
        $this->dbh = new                $this->user, $this->pass, $options)
        PDO($dsn,                       ;
    } catch (PDOException $e) {
        die($e->getMessage()) ;
    }
  }
```

```php
    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();
    }
```

```php
}
```

models/itemmodel.php

```php
< ?php
class ItemModel {
    private        = 'items';
    $table
    private $db;

    public         __construct() {
    function
        $this->db = new Database() ;
    }

    public         getAllItems() {
    function
        $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->tabl  . " SET nama = :nama, stok =
        e
```

```php
:stok, harga = :harga WHERE id = :id";
        $this->db->query($query) ;
        $this->db->bind('nama', $data['nama' ]) ;
        $this->db->bind('stok', $data['stok']);
```

```php
        $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() ;
    }
}
```

views/admin/add,php

```php
<h2>Tambah Barang</h2>

<form action="<?= BASEURL; ?>index.php?url=admin/store" method="POST">
    <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>
<link                 type="text/css" href="<?= BASEURL;
rel="stylesheet"
?>assets/style.css">
```

views/admin/edit.php

```php
<h2>Edit Barang</h2>

<form action="<?= BASEURL; ?>index.php?url=admin/update" method="POST">
    <input type="hidden" name="id" value="<?= $data['item']['id']; ?>">
    <label for="nama">Nama:</label><br>
    <input type="text" name="nama"           value= "<? =
        id="nama"
```

```
$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>
<link                    type="text/css" href="<?= BASEURL;
rel="stylesheet"
?>assets/style.css">
```

views/admin/index.php

```
<h2>Halaman
Admin</h2>
<a href="<?= BASEURL; ?>index.php?url=admin/add">Tambah              | <a
Barang</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 dat a
ini?');">Hapus</a>
```

```
        </td>
    </tr>
    <?php endforeach; ?>
</table>
<link rel="stylesheet" type="text/css" href="<?= BASEURL;
?>assets/style.css">
```

views/home/index.php

```
<h1>Selamat Datang    Aplikasi Penjualan Barang</h1>
di
<p>Ini adalah          home.</p>
halaman
<a href="<?=            ?>index.php?url=login/index">Login</a>
BASEURL;
<link rel="stylesheet" type="text/css" href="<?= BASEURL;
?>assets/style.css">
```

views/login/index.php

```
<h2>Form Login</h2>
<form action="<?= BASEURL; ?>index.php?url=login/auth" method="POST">
    <input type="text" name="username" placeholder="Username"
    required><br>
    <input type="password"              placeholder="Password"
    name="password"
required><br>
   <button type="submit">Login</button>
    <link rel="stylesheet"              href="<?= BASEURL;
    type="text/css"
?>assets/style.css">
</form>
```

views/templates/footer.php

```
</body>
</html>
```

views/templates/header.php

```html
<!DOCTYPE html>
<html>
<head>
    <title><?= $data['title']; ?></title>
    <link rel="stylesheet"                 href="<?= BASEURL;
    type="text/css"
?>assets/style.css">
</head>
<body>
```
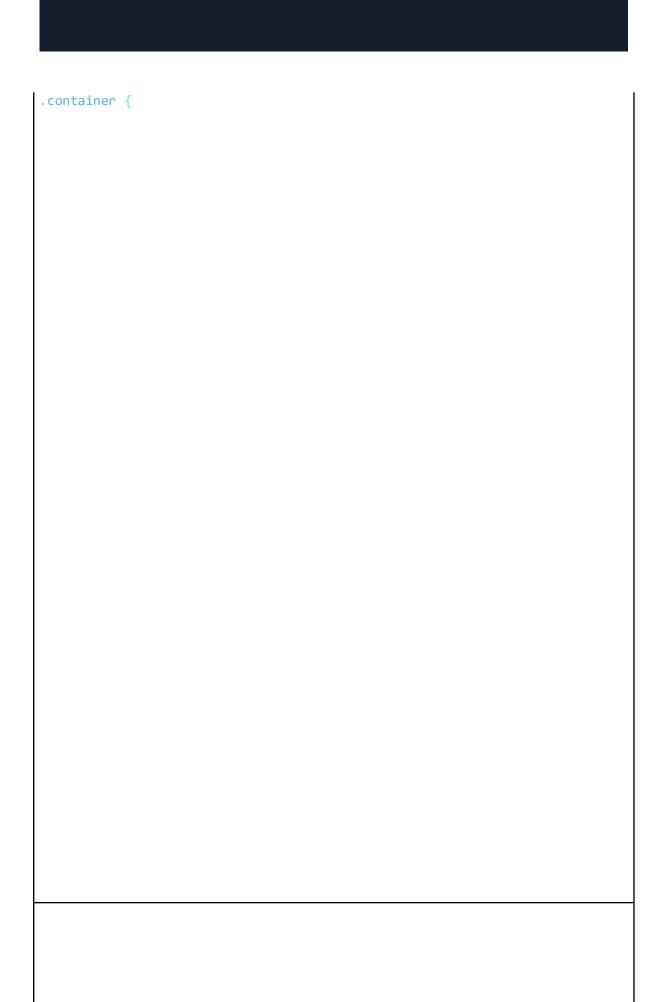
assets/style.css

```css
body {
    font-family: 'Arial', sans-serif;
    background-color: #f4f4f4;
    margin: 0;
    padding: 0;
    color: #333;
}

h1, h2 {
    text-align: center;
    color: #333;
```

```css
        max-width: 1200px;
        margin: 20px auto;
        padding: 20px;
        background-color: #fff;
        border-radius: 10px;
        box-shadow: 0 2px 8px rgba(0, 0, 0, 0.1) ;
}

button {
        background-color: #007BFF;
        color: white;
        border: none;
        padding: 10px 15px;
        cursor: pointer;
        border-radius: 5px;
        transition: background-color 0.3s ease;
}

button:hover {
        background-color: #0056b3;
}

a.button {
        display: inline-block;
        background-color: #28a745;
        color: white;
        text-decoration: none;
        padding: 10px 15px;
        border-radius: 5px;
        transition: background-color 0.3s ease;
}

a.button:hover {
        background-color: #218838;
}

form {
```

```
display: flex;
```

```
.container {
```

```css
    margin: 0 auto;
}

input[type="text"], input[type="password"], input[type="number"] {
    padding: 10px;
    border: 1px solid #ccc;
    border-radius: 5px;
    width: 100%;
}

input[type="submit"], button {
    width: 100%;
    background-color: #28a745;
    padding: 10px;
    border: none;
    border-radius: 5px;
    color: white;
    cursor: pointer;
    transition: background-color 0.3s;
}

input[type="submit"]:hover, button:hover {
    background-color: #218838;
}

table {
    width: 100%;
    border-collapse: collapse;
    margin-top: 20px;
}

table, th, td {
    border: 1px solid #ddd;
}

th, td {
    padding: 10px;
```

```
    text-align: center;
```

```
flex-direction: column;
```

```
gap: 10px; max-width:
400px;
```

```css
}

th {
    background-color: #007BFF;
    color: white;
}

tr:nth-child(even) {
    background-color: #f9f9f9;
}

tr:hover {
    background-color: #f1f1f1;
}

a {
    color: #007BFF;
    text-decoration: none;
}
a:hover {
    text-decoration: underline;
}
header, footer {
    background-color: #007BFF;
    color: white;
    padding: 10px 0;
    text-align: center;
    margin-bottom: 20px;
}
.center {
    text-align: center;
}
.mt-20 {
    margin-top: 20px;
}
.mb-20 {
    margin-bottom: 20px;
}
```

Hasil Running
home

Edit Barang

Nama:

Keyboard

Stok:

1

Harga:

100.00

Update

delete

localhost says

Yakin ingin menghapus data ini?

OK   Cancel

Tambah Barang | Logout

ID	Nama			Aksi
1	Keyboard	1	100.00	Edit | Hapus

ID	Nama	Stok	Harga	Aksi

add

Tambah Barang

Nama:

Stok:

Harga:

Simpan

edit