

**LAPORAN PRAKTIKUM
PEMROGRAMAN BERBASIS WEB**

“Tugas 5”



Nama :

Muhammad Hakim / 4522210092

**PROGRAM STUDI TEKNIK INFORMATIKA
UNIVERSITAS PANCASILA
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KODE

```
index.php - mvc - Visual Studio Code

index.php
1 <?php
2 session_start();
3 require_once 'config.php';
4 require_once 'core/App.php';
5 require_once 'core/Controller.php';
6 require_once 'core/Database.php';
7
8 $app = new App();
```

```
config.php - mvc - Visual Studio Code

config.php
1 <?php
2 define('DB_HOST', 'localhost');
3 define('DB_USER', 'root');
4 define('DB_PASS', 'root');
5 define('DB_NAME', 'projectmvc');
6
7 // BASEURL untuk memudahkan penulisan URL
8 define('BASEURL', 'http://localhost/mvc/');
```

```
AdminController.php - mvc - Visual Studio Code

controllers > AdminController.php
1 <?php
2 class AdminController extends Controller {
3     public function __construct() {
4         if (isset($_SESSION['user'])) {
5             header('Location: ' . BASEURL . 'index.php?url=login/index');
6             exit;
7         }
8     }
9
10    public function index() {
11        $data['title'] = 'Admin';
12        $data['items'] = $this->model('ItemModel')->getAllItems();
13        $this->view('templates/header', $data);
14        $this->view('admin/index', $data);
15        $this->view('templates/footer');
16    }
17
18    public function add() {
19        $data['title'] = 'Tambah Barang';
20        $this->view('templates/header', $data);
21        $this->view('admin/add');
22        $this->view('templates/footer');
23    }
24
25    public function store() {
26        if ($this->model('ItemModel')->addItem($_POST) > 0) {
```

```
AdminController.php - mvc - Visual Studio Code

controllers > AdminController.php
24 class AdminController extends Controller {
25     public function store() {
26         if ($this->model('ItemModel')->addItem($_POST) > 0) {
27             header('Location: ' . BASEURL . 'index.php?url=admin/index');
28         } else {
29             echo "Gagal menambahkan data.";
30         }
31     }
32
33     public function edit($id) {
34         $data['title'] = 'Edit Barang';
35         $data['item'] = $this->model('ItemModel')->getItemById($id);
36         $this->view('templates/header', $data);
37         $this->view('admin/edit', $data);
38         $this->view('templates/footer');
39     }
40
41     public function update() {
42         if ($this->model('ItemModel')->updateItem($_POST) > 0) {
43             header('Location: ' . BASEURL . 'index.php?url=admin/index');
44         } else {
45             echo "Gagal mengubah data.";
46         }
47     }
48 }
```

```
AdminController.php - mvc - Visual Studio Code
AdminController.php
controllers > AdminController.php
2 class AdminController extends Controller {
49
50     public function delete($id) {
51         if ($this->model('ItemModel')->deleteItem($id) > 0) {
52             header('Location: ' . BASEURL . 'index.php?url=admin/index');
53         } else {
54             echo "Gagal menghapus data.";
55         }
56     }
}
```

EXPLORER

- MVC
 - assets
 - controllers
 - AdminController.php
 - HomeController.php
 - LoginController.php
 - core
 - models
 - screenshots
 - views
 - config.php
 - index.php

```
HomeController.php - mvc - Visual Studio Code
HomeController.php
controllers > HomeController.php
1 <?php
2 class HomeController extends Controller {
3     public function index() {
4         $data['title'] = 'Home';
5         $this->view('templates/header', $data);
6         $this->view('home/index', $data);
7         $this->view('templates/footer');
8     }
9 }
```

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```
LoginController.php - mvc - Visual Studio Code
LoginController.php
controllers > LoginController.php
1 <?php
2 class LoginController extends Controller {
3     public function index() {
4         $data['title'] = 'Login';
5         $this->view('templates/header', $data);
6         $this->view('login/index');
7         $this->view('templates/footer');
8     }
9
10    public function auth() {
11        $username = $_POST['username'];
12        $password = $_POST['password'];
13
14        // Misal autentikasi sederhana tanpa database
15        if ($username === 'admin' && $password === 'admin') {
16            $_SESSION['user'] = $username;
17            header('Location: ' . BASEURL . 'index.php?url=admin/index');
18        } else {
19            header('Location: ' . BASEURL . 'index.php?url=login/index');
20        }
21    }
22
23    public function logout() {
24        session_destroy();
25        header('Location: ' . BASEURL . 'index.php');
26    }
}
```

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OUTLINE

Ln 27, Col 2 Spaces:4 UTF-8 CRLF PHP Go Live

```
App.php - mvc - Visual Studio Code

App.php x
core > App.php
1 <?php
2 class App {
3     protected $controller = 'HomeController';
4     protected $method = 'index';
5     protected $params = [];
6
7     public function __construct() {
8         $url = $this->parseURL();
9
10        // Controller
11        if (isset($url[0]) && file_exists('controllers/' . $url[0] . 'Controller.php')) {
12            $this->controller = $url[0] . 'Controller';
13            unset($url[0]);
14        }
15        require_once 'controllers/' . $this->controller . '.php';
16        $this->controller = new $this->controller;
17
18        // Method
19        if (isset($url[1])) {
20            if (method_exists($this->controller, $url[1])) {
21                $this->method = $url[1];
22                unset($url[1]);
23            }
24        }
25
26        // Parameters
27    }
28 }
```

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OUTLINE

Ln 42, Col 1 Spaces: 4 UTF-8 CRLF PHP Go Live

```
App.php - mvc - Visual Studio Code

App.php x
core > App.php
2 class App {
7     public function __construct() {
26        // Parameters
27        $this->params = $url ? array_values($url) : [];
28
29        // Call method and pass parameters
30        call_user_func_array([$this->controller, $this->method], $this->params);
31    }
32
33    public function parseURL() {
34        if (isset($_GET['url'])) {
35            $url = rtrim($_GET['url'], '/');
36            $url = filter_var($url, FILTER_SANITIZE_URL);
37            $url = explode('/', $url);
38            return $url;
39        }
40        return [];
41    }
42 }
```

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```
Controller.php - mvc - Visual Studio Code

Controller.php x
core > Controller.php
1 <?php
2 class Controller {
3     public function model($model) {
4         require_once 'models/' . $model . '.php';
5         return new $model();
6     }
7
8     public function view($view, $data = []) {
9         require_once 'views/' . $view . '.php';
10    }
11 }
```

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```
Database.php - mvc - Visual Studio Code

Database.php x
core > Database.php
1 <?php
2 class Database {
3     private $host = DB_HOST;
4     private $user = DB_USER;
5     private $pass = DB_PASS;
6     private $dbname = DB_NAME;
7
8     private $dbh;
9     private $stmt;
10
11     public function __construct() {
12         $dsn = 'mysql:host=' . $this->host . ';dbname=' . $this->dbname;
13         $options = [
14             PDO::ATTR_PERSISTENT => true,
15             PDO::ATTR_ERRMODE => PDO::ERRMODE_EXCEPTION
16         ];
17
18         try {
19             $this->dbh = new PDO($dsn, $this->user, $this->pass, $options);
20         } catch (PDOException $e) {
21             die($e->getMessage());
22         }
23     }
24
25     public function query($query) {
26         $this->stmt = $this->dbh->prepare($query);
27     }
28 }
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```
ItemModel.php - mvc - Visual Studio Code

ItemModel.php x
models > ItemModel.php
1  <?php
2  class ItemModel {
3      private $table = 'items';
4      private $db;
5
6      public function __construct() {
7          $this->db = new Database();
8      }
9
10     public function getAllItems() {
11         $this->db->query("SELECT * FROM " . $this->table);
12         return $this->db->resultSet();
13     }
14
15     public function addItem($data) {
16         $query = "INSERT INTO " . $this->table . " (nama, stok, harga) VALUES
17         (:nama, :stok, :harga)";
18         $this->db->query($query);
19         $this->db->bind('nama', $data['nama']);
20         $this->db->bind('stok', $data['stok']);
21         $this->db->bind('harga', $data['harga']);
22         $this->db->execute();
23         return $this->db->rowCount();
24     }
25     public function getItemById($id) {
```

```
ItemModel.php - mvc - Visual Studio Code

ItemModel.php x
models > ItemModel.php
2  class ItemModel {
25     public function getItemById($id) {
26         $this->db->query("SELECT * FROM " . $this->table . " WHERE id = :id");
27         $this->db->bind('id', $id);
28         return $this->db->single();
29     }
30
31     public function updateItem($data) {
32         $query = "UPDATE " . $this->table . " SET nama = :nama, stok = :stok,
33         harga = :harga WHERE id = :id";
34         $this->db->query($query);
35         $this->db->bind('nama', $data['nama']);
36         $this->db->bind('stok', $data['stok']);
37         $this->db->bind('harga', $data['harga']);
38         $this->db->bind('id', $data['id']);
39         $this->db->execute();
40         return $this->db->rowCount();
41     }
42     public function deleteItem($id) {
43         $query = "DELETE FROM " . $this->table . " WHERE id = :id";
44         $this->db->query($query);
45         $this->db->bind('id', $id);
46         $this->db->execute();
47         return $this->db->rowCount();
48     }
49 }
```

```
add.php - mvc - Visual Studio Code

views > admin > add.php

1 <div class="container mt-4">
2   <div class="card mx-auto" style="max-width:400px;">
3     <div class="card-header">
4       <h5 class="mb-0">Tambah Barang</h5>
5     </div>
6     <div class="card-body">
7       <form action="{%= BASEURL; ?>index.php?url=admin/store" method="POST">
8         <div class="mb-3">
9           <label class="form-label" for="nama">Nama:</label>
10          <input class="form-control" type="text" name="nama" id="nama"
11            required>
12        </div>
13        <div class="mb-3">
14          <label class="form-label" for="stok">Stok:</label>
15          <input class="form-control" type="number" name="stok"
16            id="stok" required>
17        </div>
18        <div class="mb-3">
19          <label class="form-label" for="harga">Harga:</label>
20          <input class="form-control" type="number" name="harga"
21            id="harga" required>
22        </div>
23        <button class="btn btn-primary" type="submit">Simpan</button>
24      </form>
25    </div>
26  </div>
27</div>
```

```
edit.php - mvc - Visual Studio Code

views > admin > edit.php

1 <div class="container mt-4">
2   <div class="card mx-auto" style="max-width:400px;">
3     <div class="card-header">
4       <h5 class="mb-0">Edit Barang</h5>
5     </div>
6     <div class="card-body">
7       <form action="{%= BASEURL; ?>index.php?url=admin/update" method="POST">
8         <div class="mb-3">
9           <input type="hidden" name="id" value="{%= $data['item']['id']; %}>
10        </div>
11        <div class="mb-3">
12          <label class="form-label" for="nama">Nama:</label>
13          <input class="form-control" type="text" name="nama" id="nama" v
14        </div>
15        <div class="mb-3">
16          <label class="form-label" for="stok">Stok:</label>
17          <input class="form-control" type="number" name="stok" id="stok"
18        </div>
19        <div class="mb-3">
20          <label class="form-label" for="harga">Harga:</label>
21          <input class="form-control" type="number" name="harga" id="harg
22        </div>
23        <button class="btn btn-primary" type="submit">Update</button>
24      </form>
25    </div>
26  </div>
27</div>
```

```
index.php - mvc - Visual Studio Code

index.php
1 <div class="container mt-4">
2   <div class="d-flex align-items-center mb-3">
3     <h2 class="me-auto">Halaman Admin</h2>
4     <a class="btn btn-sm btn-dark me-2" href="= BASEURL; ?&gt;index.php?url=admin/add"&gt;Tambah Barang&lt;/a&gt;
5     &lt;a class="btn btn-sm btn-dark" href="<?= BASEURL; ?&gt;index.php?url=login/logout"&gt;Logout&lt;/a&gt;
6   &lt;/div&gt;
7   &lt;table class="table table-hover table-bordered"&gt;
8     &lt;tr&gt;
9       &lt;th&gt;ID&lt;/th&gt;
10      &lt;th&gt;Nama&lt;/th&gt;
11      &lt;th&gt;Stok&lt;/th&gt;
12      &lt;th&gt;Harga&lt;/th&gt;
13      &lt;th&gt;Aksi&lt;/th&gt;
14    &lt;/tr&gt;
15    &lt;?php foreach ($data['items'] as $item): ?&gt;
16      &lt;tr&gt;
17        &lt;td&gt;<?= $item['id']; ?&gt;&lt;/td&gt;
18        &lt;td&gt;<?= $item['nama']; ?&gt;&lt;/td&gt;
19        &lt;td&gt;<?= $item['stok']; ?&gt;&lt;/td&gt;
20        &lt;td&gt;<?= $item['harga']; ?&gt;&lt;/td&gt;
21        &lt;td&gt;
22          &lt;a class="btn btn-sm btn-dark me-2" href="<?= BASEURL; ?&gt;index.php?url=admin/edit/&lt;?&gt;
23            $item['id']; ?&gt;"&gt;Edit&lt;/a&gt; |
24          &lt;a class="btn btn-sm btn-dark ms-2" href="<?= BASEURL; ?&gt;index.php?url=admin/delete/&lt;?&gt;
25            $item['id']; ?&gt;" onclick="return confirm('Yakin ingin menghapus data ini?');"&gt;Hapus&lt;/a&gt;
26        &lt;/td&gt;
27      &lt;/tr&gt;
28    &lt;?php endforeach; ?&gt;
29  &lt;/table&gt;
30 &lt;/div&gt;</pre
```

```
index.php - mvc - Visual Studio Code

index.php
1 <div class="container mt-4 text-center">
2   <h1>Selamat Datang di Aplikasi Penjualan Barang</h1>
3   <p>Ini adalah halaman home.</p>
4   <a class="btn btn-primary" href="= BASEURL; ?&gt;index.php?url=login/
5   index"&gt;Login&lt;/a&gt;
6 &lt;/div&gt;</pre
```

```
index.php - mvc - Visual Studio Code

index.php
1 <div class="container mt-4">
2   <div class="card mx-auto" style="max-width:400px;">
3     <div class="card-header">
4       <h5 class="mb-0">Form Login</h5>
5     </div>
6     <div class="card-body">
7       <form action="= BASEURL; ?&gt;index.php?url=login/auth" method="POST"&gt;
8         &lt;div class="mb-3"&gt;
9           &lt;input class="form-control" type="text" name="username"
10             placeholder="Username" required&gt;
11         &lt;/div&gt;
12         &lt;div class="mb-3"&gt;
13           &lt;input class="form-control" type="password" name="password"
14             placeholder="Password" required&gt;
15         &lt;/div&gt;
16         &lt;button class="btn btn-primary" type="submit"&gt;Login&lt;/button&gt;
17       &lt;/form&gt;
18     &lt;/div&gt;
19   &lt;/div&gt;
20 &lt;/div&gt;</pre
```

```
footer.php - mvc - Visual Studio Code

footer.php
1 </body>
2 </html>
```


header.php - mvc - Visual Studio Code

views > templates > header.php

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title><?= $data['title']; ?></title>
5   <link rel="stylesheet" href="<?= BASEURL; ?>assets/css/bootstrap.css">
6 </head>
7 <body>
8
9
```

EXPLORER

MVC

assets

controllers

core

models

screenshots

views

admin

home

login

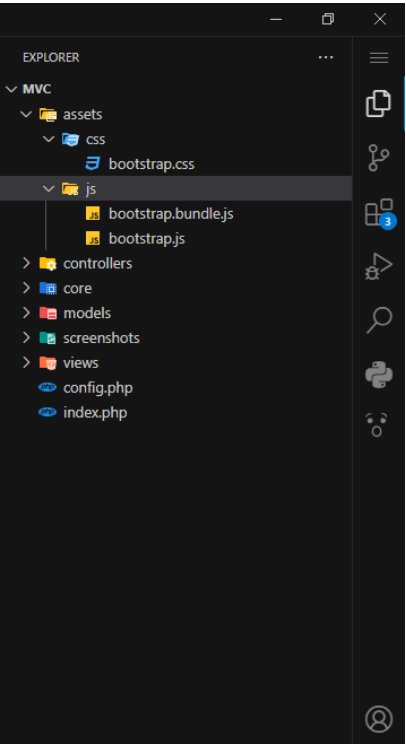
templates

footer.php

header.php

config.php

index.php



HASIL

