

**Laporan Tugas
Praktikum Pemrograman Berbasis Website**



Oleh:

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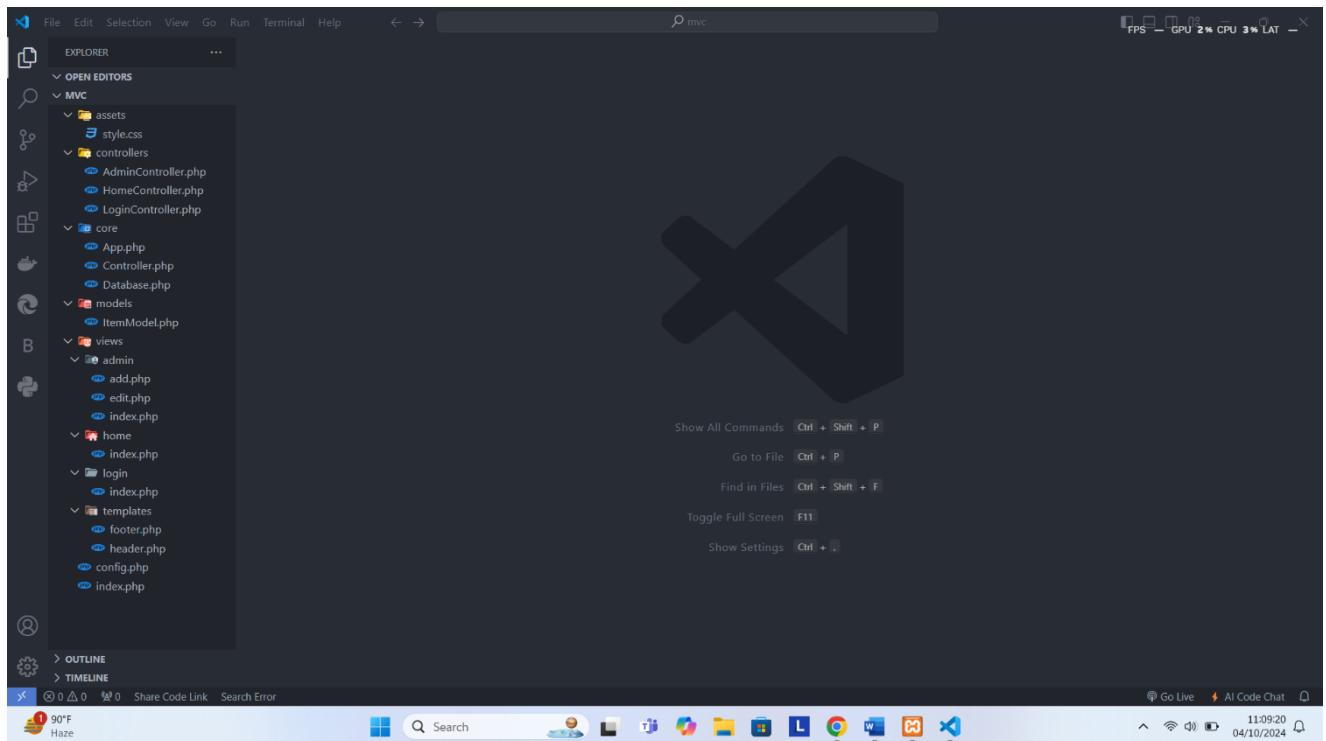
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Dosen:

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Struktur MVC (Models, Views, Controls)



Kode index.php

The screenshot shows the same dark-themed IDE interface, but now the code editor is open on the file 'index.php' under the 'OPEN EDITORS' tab. The code content is as follows:

```
<?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();
```

The rest of the interface is identical to the first screenshot, showing the project structure in the Explorer and various status icons at the bottom.

Kode core/App.php

The screenshot shows a code editor interface with a dark theme. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. A search bar at the top right contains the text "mvc". The bottom status bar shows "Ln 10, Col 1" and other system information like CPU usage (0% CPU). The left sidebar displays a file tree under the "core" directory, with "App.php" selected. The main editor area contains the following PHP code:

```
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 [];
}
```

The status bar also indicates "Hot weather Now" and the date "04/10/2024".

Kode core/Controller.php

The screenshot shows a code editor interface with a dark theme, similar to the previous one. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. A search bar at the top right contains the text "mvc". The bottom status bar shows "Ln 5, Col 29 (6 selected)" and other system information like CPU usage (10% CPU). The left sidebar displays a file tree under the "core" directory, with "Controller.php" selected. The main editor area contains the following PHP code:

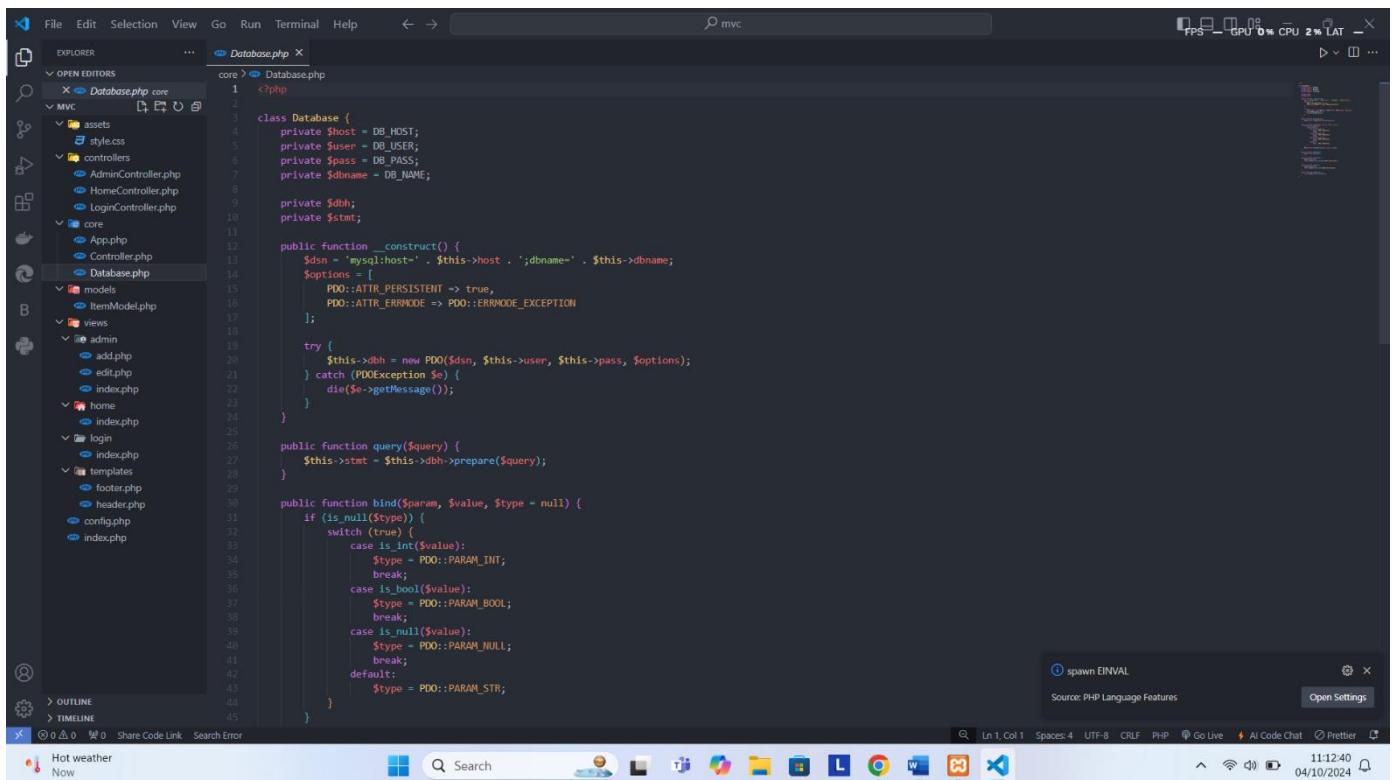
```
core > Controller.php
<?php

class Controller {
    public function model($model) {
        require_once 'models/' . $model . '.php';
        return new $model();
    }

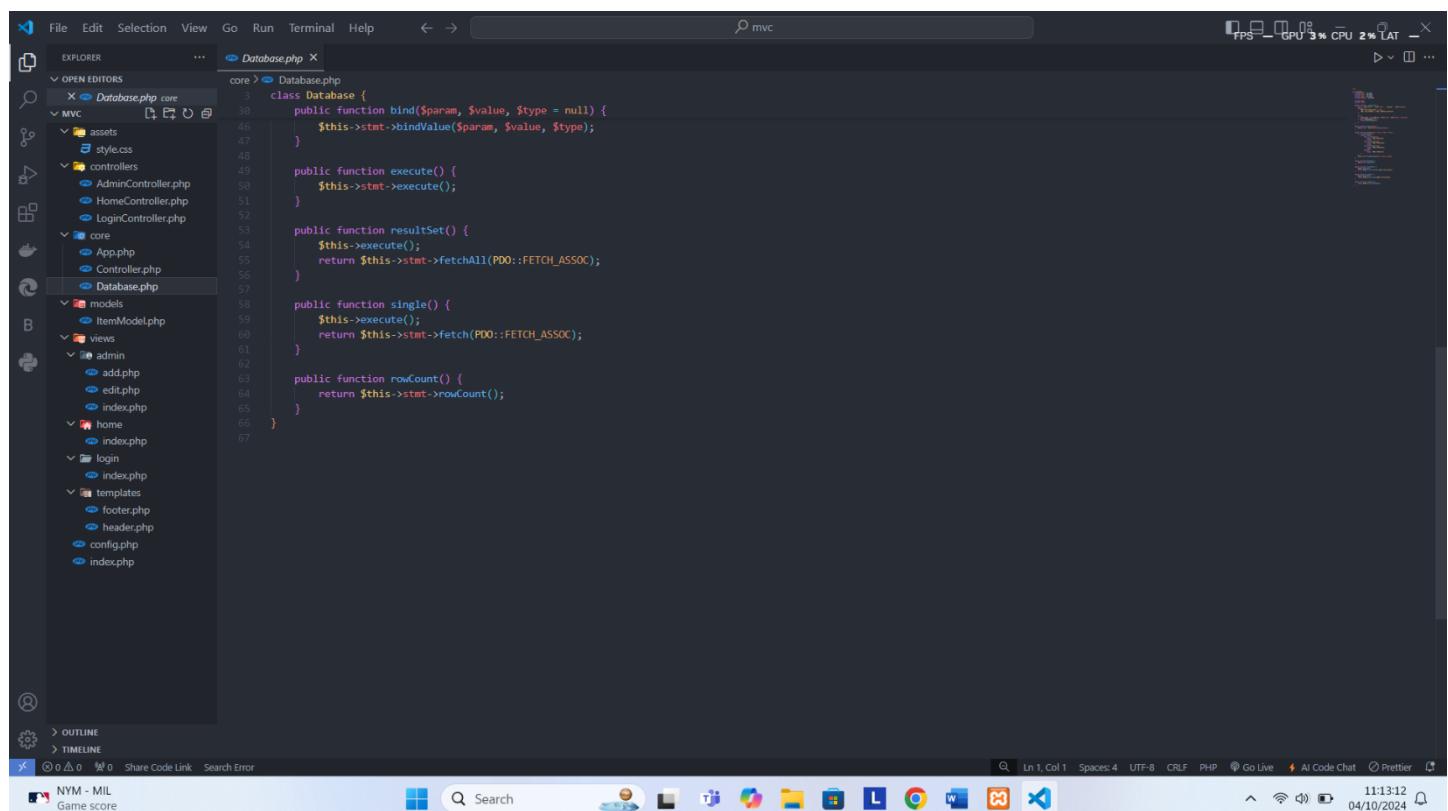
    public function view($view, $data = []) {
        require_once 'views/' . $view . '.php';
    }
}
```

The status bar also indicates "Hot weather Now" and the date "04/10/2024".

Kode core/Database.php



```
1 <?php
2
3 class Database {
4     private $host = DB_HOST;
5     private $user = DB_USER;
6     private $pass = DB_PASS;
7     private $dbname = DB_NAME;
8
9     private $db;
10    private $stmt;
11
12    public function __construct() {
13        $dsn = 'mysql:host=' . $this->host . ';dbname=' . $this->dbname;
14        $options = [
15            PDO::ATTR_PERSISTENT => true,
16            PDO::ATTR_ERRMODE => PDO::ERRMODE_EXCEPTION
17        ];
18
19        try {
20            $this->db = new PDO($dsn, $this->user, $this->pass, $options);
21        } catch (PDOException $e) {
22            die($e->getMessage());
23        }
24    }
25
26    public function query($query) {
27        $this->stmt = $this->db->prepare($query);
28    }
29
30    public function bind($param, $value, $type = null) {
31        if (is_null($type)) {
32            switch (true) {
33                case is_int($value):
34                    $type = PDO::PARAM_INT;
35                    break;
36                case is_bool($value):
37                    $type = PDO::PARAM_BOOL;
38                    break;
39                case is_null($value):
40                    $type = PDO::PARAM_NULL;
41                    break;
42                default:
43                    $type = PDO::PARAM_STR;
44            }
45        }
46    }
47
48    public function execute() {
49        $this->stmt->execute();
50    }
51
52    public function resultSet() {
53        $this->execute();
54        return $this->stmt->fetchAll(PDO::FETCH_ASSOC);
55    }
56
57    public function single() {
58        $this->execute();
59        return $this->stmt->fetch(PDO::FETCH_ASSOC);
60    }
61
62    public function rowCount() {
63        return $this->stmt->rowCount();
64    }
65}
66
67
```



```
3 class Database {
4     public function bind($param, $value, $type = null) {
5         $this->stmt->bindValue($param, $value, $type);
6     }
7
8     public function execute() {
9         $this->stmt->execute();
10    }
11
12    public function resultSet() {
13        $this->execute();
14        return $this->stmt->fetchAll(PDO::FETCH_ASSOC);
15    }
16
17    public function single() {
18        $this->execute();
19        return $this->stmt->fetch(PDO::FETCH_ASSOC);
20    }
21
22    public function rowCount() {
23        return $this->stmt->rowCount();
24    }
25}
26
27
```

Kode config.php

The screenshot shows the VS Code interface with the file 'config.php' open in the editor. The code defines database parameters and a base URL:

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

The Explorer sidebar shows the project structure, including 'MVC' (assets, controllers, core, models, views), 'core' (App.php, Controller.php, Database.php), 'models' (ItemModel.php), and 'views' (admin, home, login, templates). The 'config.php' file is selected in the Explorer.

Kode controllers/HomeController.php

The screenshot shows the VS Code interface with the file 'HomeController.php' open in the editor. The code defines a controller class that extends the 'Controller' class and contains an 'index()' method:

```
1 <?php
2
3 class HomeController extends Controller {
4     public function index() {
5         $data['title'] = 'Home';
6         $this->view('templates/header', $data);
7         $this->view('home/index', $data);
8         $this->view('templates/footer');
9     }
10 }
```

The Explorer sidebar shows the project structure, including 'MVC' (assets, controllers, core, models, views), 'core' (App.php, Controller.php, Database.php), 'models' (ItemModel.php), and 'views' (admin, home, login, templates). The 'HomeController.php' file is selected in the Explorer.

Kode templates/header.php

The screenshot shows the VS Code interface with the file `header.php` open in the editor. The code is a PHP template for a header, including DOCTYPE, HTML, head, title, and a link to a style sheet. The Explorer sidebar shows the project structure under the `MVC` folder, including `views/templates`, `assets`, `controllers`, and `core` folders. The status bar at the bottom right shows system information like battery level, signal strength, and date.

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

Kode templates/footer.php

The screenshot shows the VS Code interface with the file `footer.php` open in the editor. The code is a simple PHP template for a footer, consisting of a closing body tag and a closing HTML tag. The Explorer sidebar shows the project structure under the `MVC` folder, including `views/templates`, `assets`, `controllers`, and `core` folders. A tooltip "spawn EINVAL" appears near the bottom right. The status bar at the bottom right shows system information like battery level, signal strength, and date.

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

Kode home/index.php

The screenshot shows the Visual Studio Code interface with the file `index.php` open in the editor. The code is part of an MVC (Model-View-Controller) application. It includes HTML and PHP code. A tooltip "spawn EINVAL" is visible near the bottom right. The status bar at the bottom shows "Rain showers In the afternoon".

```
<div class="container">
    <h1>Selamat Datang di Aplikasi Penjualan Barang</h1>
    <p>Ini adalah halaman home.</p>
    <a href="= BASEURL; ?>index.php?url=login/index" class="btn">Login</a>
```

Kode controllers/LoginController.php

The screenshot shows the Visual Studio Code interface with the file `LoginController.php` open in the editor. The code defines a `LoginController` class that extends `Controller`. It contains methods for `index()`, `auth()`, and `logout()`. The `auth()` method checks if the username and password are both 'admin' and sets a session variable. The `logout()` method destroys the session. The status bar at the bottom shows "Upcoming Earnings".

```
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');
    }
}
```

Kode views/login/index.php

```
<?php
// Code for index.php in views/login
```

The screenshot shows a code editor interface with the file `index.php` open in the center. The left sidebar displays a file tree for a MVC (Model-View-Controller) application structure. The `index.php` file contains PHP code for a login form:

```
1 <div class="login-container">
2   <h2>Form Login</h2>
3   <form action="= BASEURL; ?>index.php?url=login/auth" method="POST">
4     <input type="text" name="username" placeholder="Username" required><br>
5     <input type="password" name="password" placeholder="Password" required><br>
6     <button type="submit">Login</button>
7   </form>
8 </div>
```

The status bar at the bottom shows various system and application icons.

Kode controllers/AdminController.php

```
<?php
// Code for AdminController.php in controllers
```

The screenshot shows a code editor interface with the file `AdminController.php` open in the center. The left sidebar displays a file tree for a MVC (Model-View-Controller) application structure. The `AdminController.php` file contains PHP code for an admin controller:

```
1 class AdminController extends Controller {
2   public function __construct() {
3     if (!isset($_SESSION['user'])) {
4       header('Location: '. BASEURL . 'index.php?url=login/index');
5       exit;
6     }
7
8   public function index() {
9     $data['title'] = 'Admin';
10    $data['items'] = $this->model('ItemModel')->getAllItems();
11    $this->view('templates/header', $data);
12    $this->view('admin/index', $data);
13    $this->view('templates/footer');
14
15  public function add() {
16    $data['title'] = 'Tambah Barang';
17    $this->view('templates/header', $data);
18    $this->view('admin/add');
19    $this->view('templates/footer');
20
21  public function store() {
22    if ($this->model('ItemModel')->addItem($_POST) > 0) {
23      header('Location: '. BASEURL . 'index.php?url=admin/index');
24    } else {
25      echo "Gagal menambahkan data.";
26    }
27
28  public function edit($id) {
29    $data['title'] = 'Edit Barang';
30    $data['item'] = $this->model('ItemModel')->getItemById($id);
31    $this->view('templates/header', $data);
32
33
34
35
36
37}
```

The status bar at the bottom shows various system and application icons.

The screenshot shows a code editor interface with the file `AdminController.php` open. The code implements a `AdminController` class that extends `Controller`. It contains three methods: `edit()`, `update()`, and `delete($id)`. The `update()` method checks if the update was successful and redirects to the index if so. The `delete()` method also checks for success and redirects to the index. The code editor has a dark theme, and the status bar at the bottom shows system information like battery level, temperature (92°F), and date (04/10/2024).

```
File Edit Selection View Go Run Terminal Help < > | mvc  
EXPLORER ... AdminController.php x  
OPEN EDITORS controllers > AdminController.php  
MVC AdminController.php con...  
assets style.css  
controllers AdminController.php  
HomeController.php LoginController.php  
core App.php Controller.php Database.php  
models ItemModel.php  
views admin add.php edit.php index.php  
home index.php  
login index.php  
templates footer.php header.php config.php index.php  
OUTLINE  
TIMELINE  
Share Code Link Search Error  
Ln 58, Col 1 Spaces: 4 UTF-8 CRLF PHP Go Live AI Code Chat Prettier  
92°F Mostly cloudy 11:21:37 04/10/2024
```

Kode models/ItemModel.php

The screenshot shows a code editor interface with the file `ItemModel.php` open. The code defines a `ItemModel` class with methods for getting all items, adding a new item, getting an item by ID, and updating an item. The `addItem()` method uses prepared statements to insert data into the `items` table. The `updateItem()` method uses prepared statements to update the `items` table. The code editor has a dark theme, and the status bar at the bottom shows system information like battery level, temperature (92°F), and date (04/10/2024).

```
File Edit Selection View Go Run Terminal Help < > | mvc  
EXPLORER ... AdminController.php x ItemModel.php x  
OPEN EDITORS AdminController.php con... ItemModel.php models  
MVC assets style.css controllers AdminController.php HomeController.php LoginController.php core App.php Controller.php Database.php models ItemModel.php views admin add.php edit.php index.php home index.php login index.php templates footer.php header.php config.php index.php  
OUTLINE  
TIMELINE  
Share Code Link Search Error  
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF PHP Go Live AI Code Chat Prettier  
92°F Mostly cloudy 11:22:20 04/10/2024
```

File Edit Selection View Go Run Terminal Help ← → 🔍 mvc

EXPLORER

- OPEN EDITORS
 - AdminController.php
 - ItemModel.php
- MVC
 - assets
 - controllers
 - core
 - models
 - views
 - admin
 - home
 - login
 - templates

```
models > ItemModel.php
  class ItemModel {
    public function updateItem($data) {
      $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();
    }
  }
```

Ln 3, Col 1 | Spaces: 4 | UTF-8 | CRLF | PHP | Go Live | AI Code Chat | Prettier

92°F Mostly cloudy 11:22:50 04/10/2024

Kode views/admin/index.php

File Edit Selection View Go Run Terminal Help ← → 🔍 mvc

EXPLORER

- OPEN EDITORS
 - AdminController.php
 - ItemModel.php
 - index.php
- MVC
 - assets
 - controllers
 - core
 - models
 - views
 - admin
 - home
 - login
 - templates

```
views > admin > index.php
  <div class="admin-container">
    <h2>Halaman Admin</h2>
    <div class="admin-actions">
      <a href="= BASEURL; ?index.php?url=admin/add" class="btn">Tambah Barang</a>
      <a href="= BASEURL; ?index.php?url=login/logout" class="btn-logout">Logout</a>
    </div>

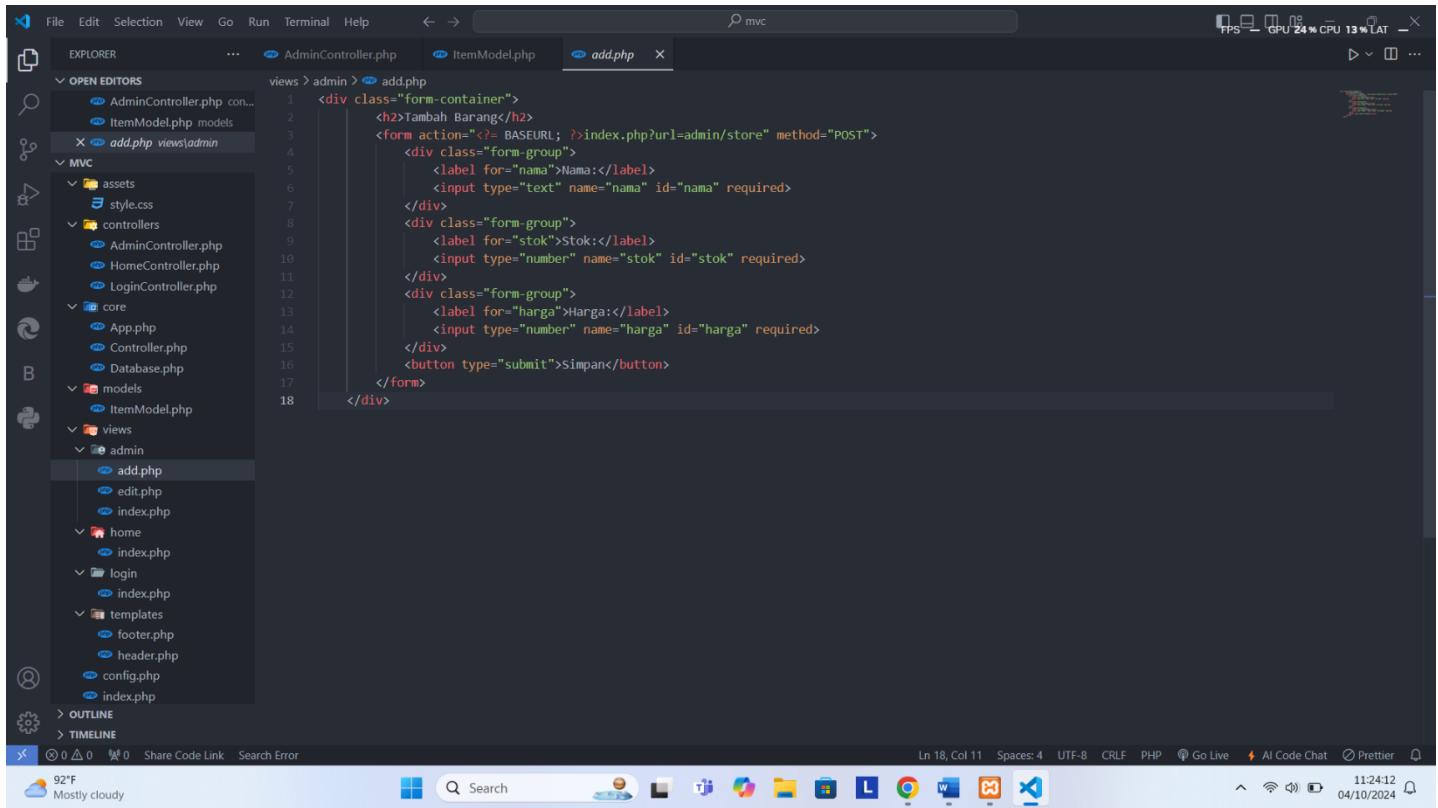
    <table>
      <tr>
        <th>ID</th>
        <th>Nama</th>
        <th>Stok</th>
        <th>Harga</th>
        <th>Aksi</th>
      </tr>
      <?php foreach ($data['items'] as $item): ?>
      <tr>
        <td><?= $item['id']; ?></td>
        <td><?= $item['nama']; ?></td>
        <td><?= $item['stok']; ?></td>
        <td><?= $item['harga']; ?></td>
        <td>
          <a href="= BASEURL; ?index.php?url=admin/edit/<?= $item['id']; ?>" class="edit-btn">Edit</a> |
          <a href="= BASEURL; ?index.php?url=admin/delete/<?= $item['id']; ?>" class="delete-btn" onclick="return confirm('Yakin')">Delete</a>
        </td>
      </tr>
    <?php endforeach; ?>
  </table>
</div>
```

Select Indentation

Ln 30, Col 5 | Spaces: 4 | UTF-8 | CRLF | PHP | Go Live | AI Code Chat | Prettier

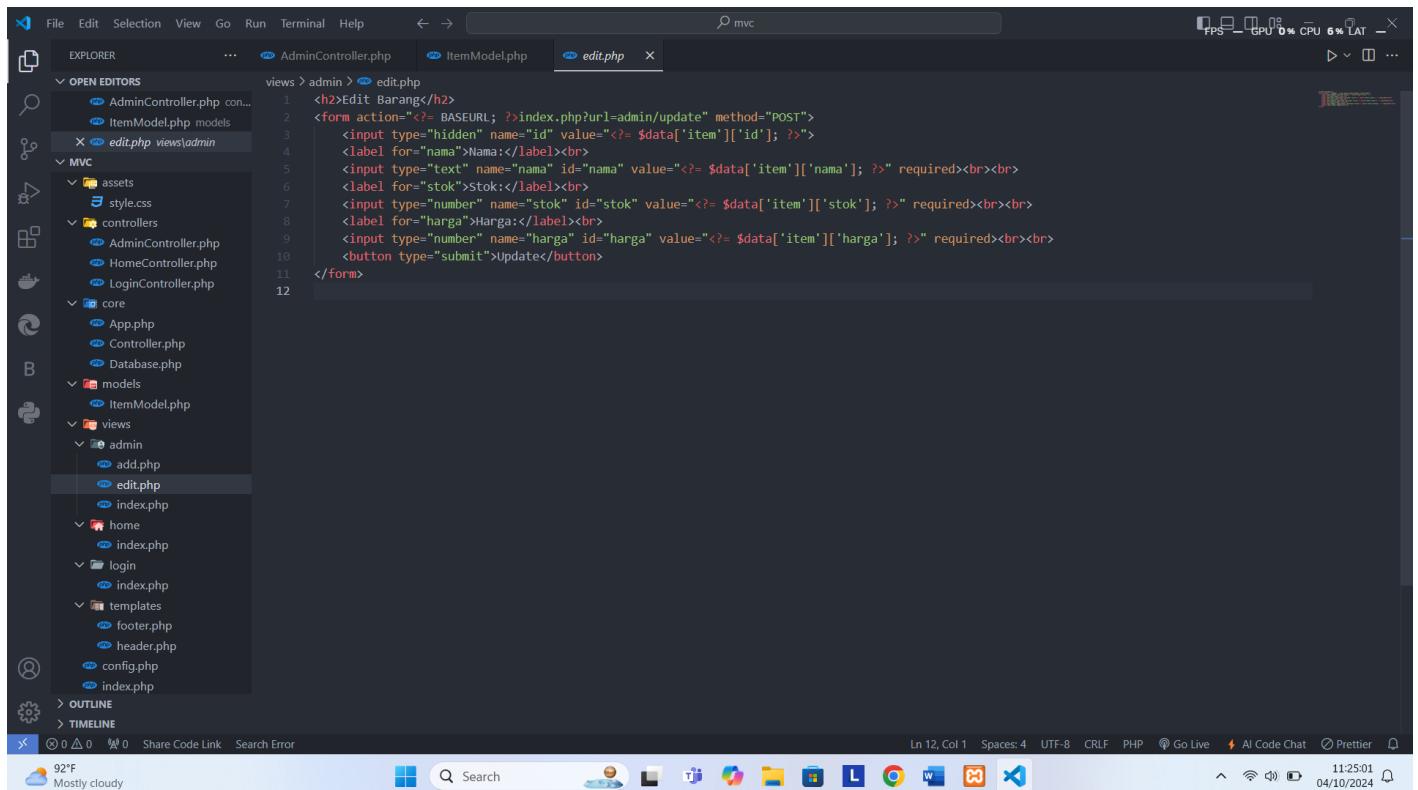
92°F Mostly cloudy 11:23:36 04/10/2024

Kode views/admin/add.php



```
<div class="form-container">
    <h2>Tambah Barang</h2>
    <form action="= BASEURL; ?/index.php?url=admin/store" method="POST">
        <div class="form-group">
            <label for="nama">Nama:</label>
            <input type="text" name="nama" id="nama" required>
        </div>
        <div class="form-group">
            <label for="stok">Stok:</label>
            <input type="number" name="stok" id="stok" required>
        </div>
        <div class="form-group">
            <label for="harga">Harga:</label>
            <input type="number" name="harga" id="harga" required>
        </div>
        <button type="submit">Simpan</button>
    </form>
</div>
```

Kode views/admin/edit.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:<br>
    <input type="text" name="nama" id="nama" value="= $data['item'][nama]; ?" required><br><br>
    <label for="stok">Stok:<br>
    <input type="number" name="stok" id="stok" value="= $data['item'][stok]; ?" required><br><br>
    <label for="harga">Harga:<br>
    <input type="number" name="harga" id="harga" value="= $data['item'][harga]; ?" required><br><br>
    <button type="submit">Update</button>
</form>
```

Tampilan SQL

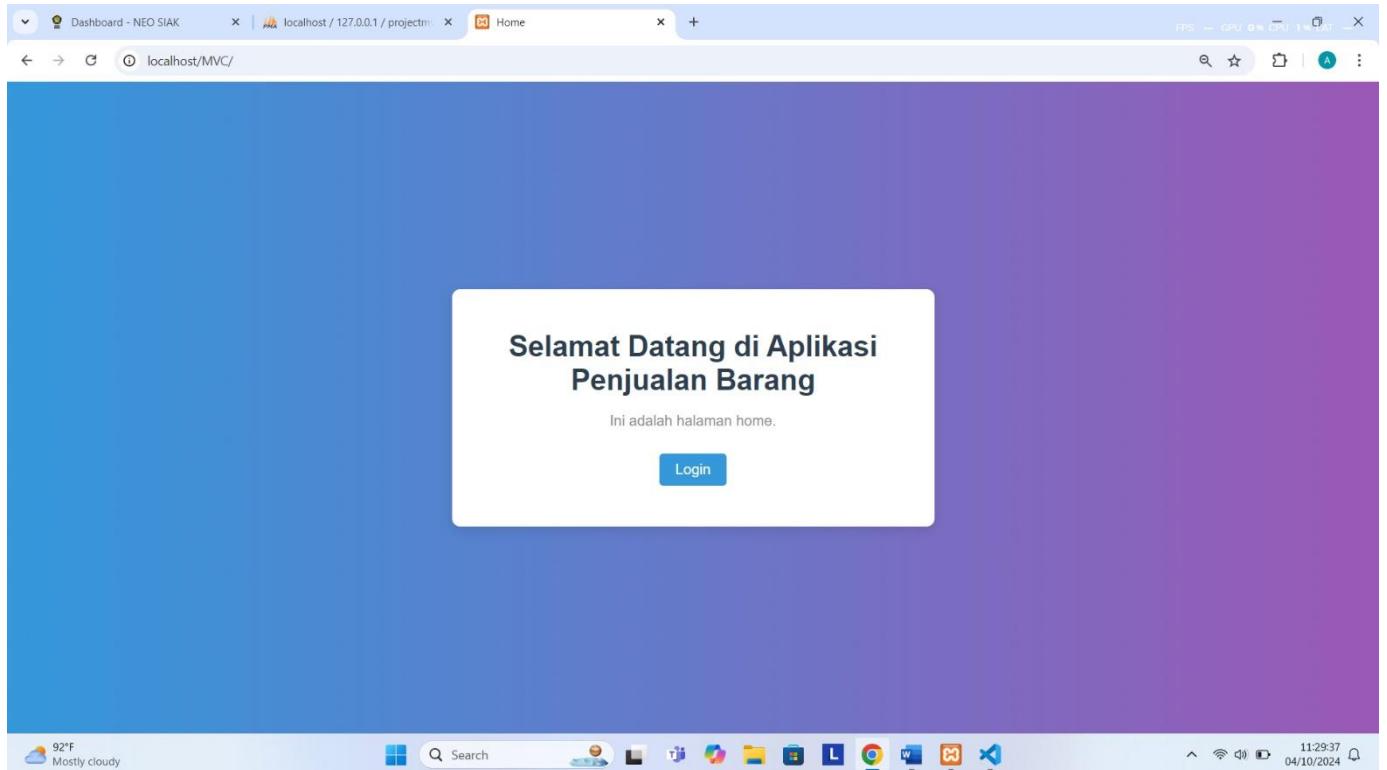
The screenshot shows the phpMyAdmin interface for the 'projectmvc' database. The left sidebar lists databases and tables, with 'items' selected. The main area displays the 'items' table with two rows:

	id	nama	stok	harga
	1	Rolex Daytona	1	30000000.00
	2	Tag Heuer Carrera	1	45000000.00

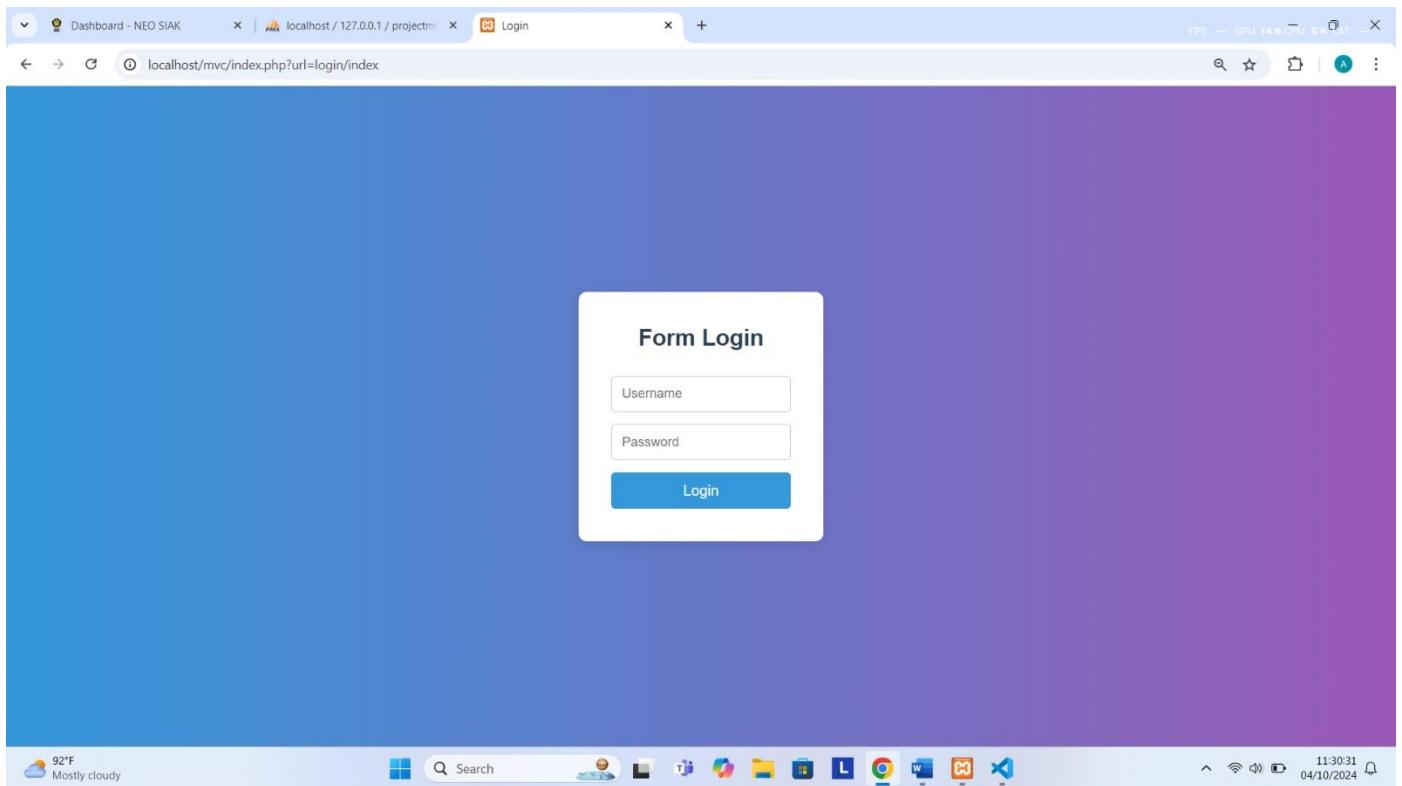
Below the table, there are buttons for 'Edit', 'Copy', 'Delete', and 'Export'. The top navigation bar includes tabs for 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', 'Operations', 'Tracking', and 'Triggers'. A search bar at the top right contains the URL 'localhost/phpmyadmin/index.php?route=/sql&pos=0&db=projectmvc&table=items'.

Hasil Program

Tampilan Home



Tampilan Login



Tampilan Halaman Admin

The screenshot shows a web browser window titled "Dashboard - NEO SIAK" with the URL "localhost/mvc/index.php?url=admin/index". The main content area is titled "Halaman Admin" and contains a table with two rows of item data. The columns are labeled "ID", "Nama", "Stok", "Harga", and "Aksi". The first row has ID 1, name "Rolex Daytona", stok 1, and harga 30000000.00. The second row has ID 2, name "Tag Heuer Carrera", stok 1, and harga 45000000.00. Each row has "Edit | Hapus" links in the "Aksi" column. A "Tambah Barang" button is in the top left, and a "Logout" button is in the top right.

Tampilan Halaman Tambah Barang

The screenshot shows a web browser window titled "Dashboard - NEO SIAK" with the URL "localhost/mvc/index.php?url=admin/add". The main content area is titled "Tambah Barang" and contains three input fields: "Nama:", "Stok:", and "Harga:". Below the fields is a blue "Simpan" button. The browser's taskbar at the bottom shows various open applications like File Explorer, Google Chrome, and Microsoft Word.

Tampilan Halaman Edit Barang

