

PRAKTIKUM PEMROGRAMAN BERBASIS WEB (A)



Oleh :

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Dosen:

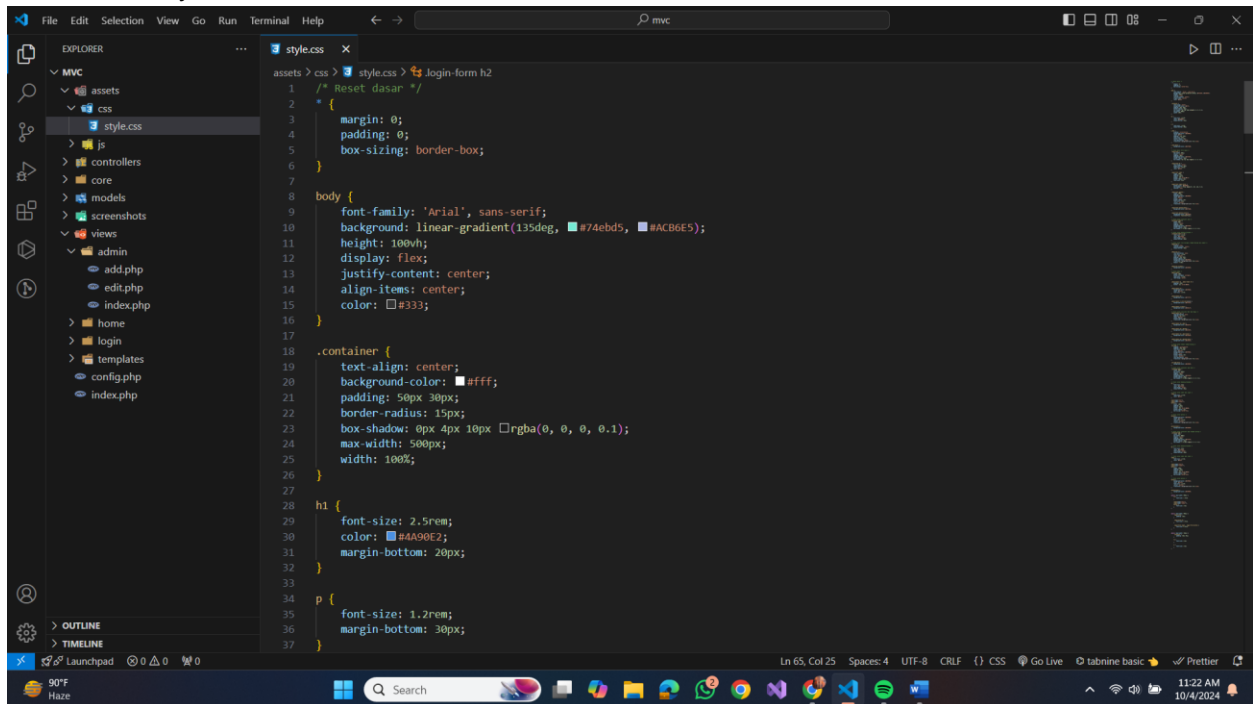
Adi Wahyu Pribadi, M.Kom.

S1 – Teknik Informatika

Fakultas Teknik Universitas Pancasila

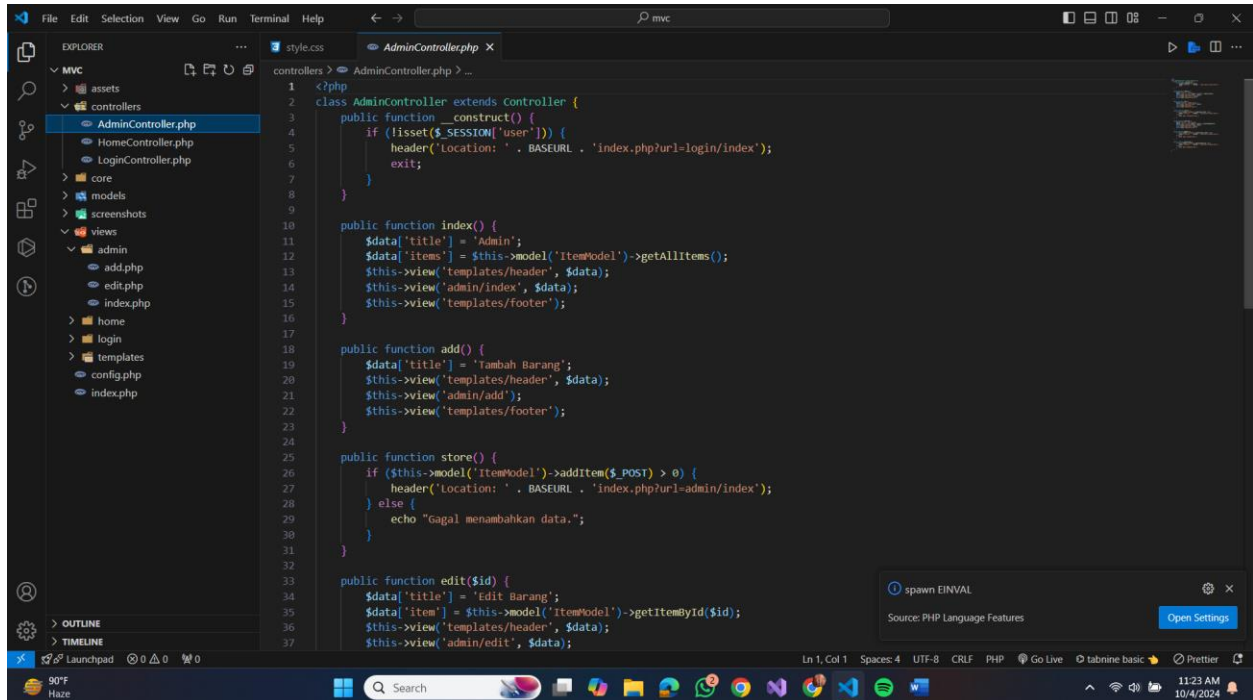
2024/2025

Coding: Assets/css/style.css



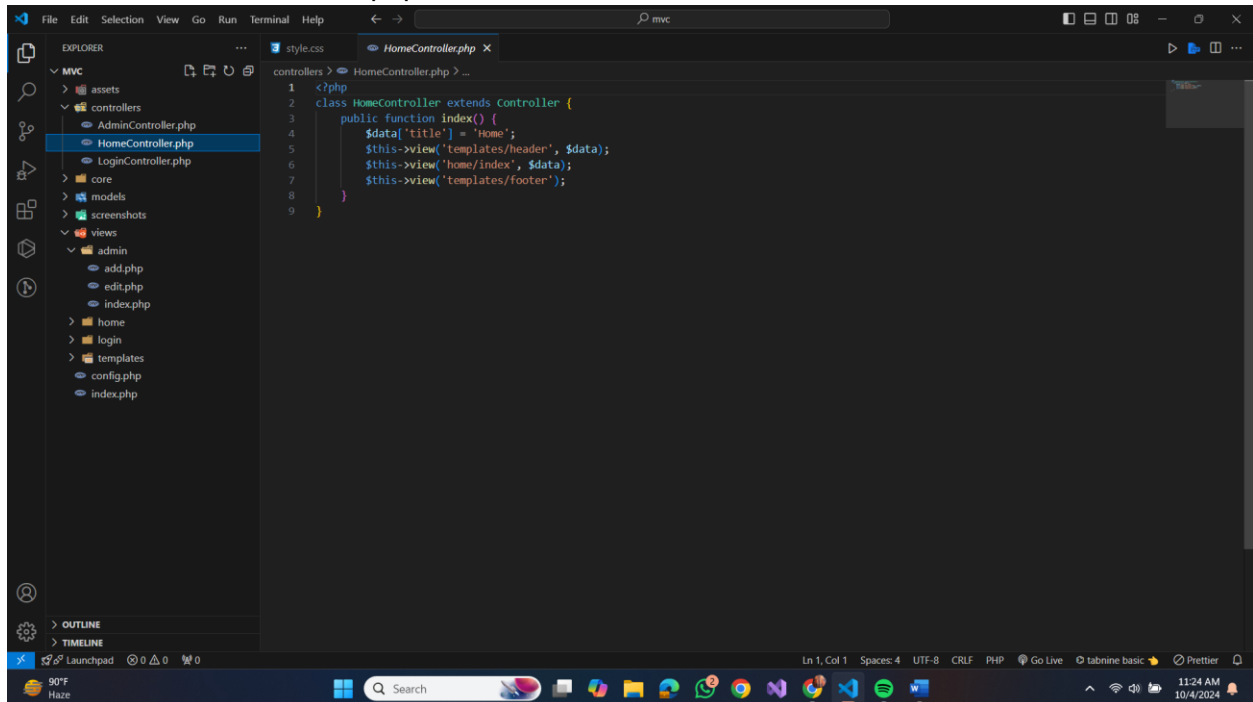
```
1  /* Reset dasar */
2  * {
3      margin: 0;
4      padding: 0;
5      box-sizing: border-box;
6  }
7
8  body {
9      font-family: 'Arial', sans-serif;
10     background: linear-gradient(135deg, #74ebd5, #ACB6E5);
11     height: 100vh;
12     display: flex;
13     justify-content: center;
14     align-items: center;
15     color: #333;
16 }
17
18 .container {
19     text-align: center;
20     background-color: #fff;
21     padding: 50px 30px;
22     border-radius: 15px;
23     box-shadow: 0px 4px 10px rgba(0, 0, 0, 0.1);
24     max-width: 500px;
25     width: 100%;
26 }
27
28 h1 {
29     font-size: 2.5rem;
30     color: #4A00E2;
31     margin-bottom: 20px;
32 }
33
34 p {
35     font-size: 1.2rem;
36     margin-bottom: 30px;
37 }
```

Contorllers/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($_POST) > 0) {
27             header('Location: ' . BASEURL . 'index.php?url-admin/index');
28         } else {
29             echo "Gagal menambahkan data.";
30         }
31     }
32
33     public function edit($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     }
39 }
```

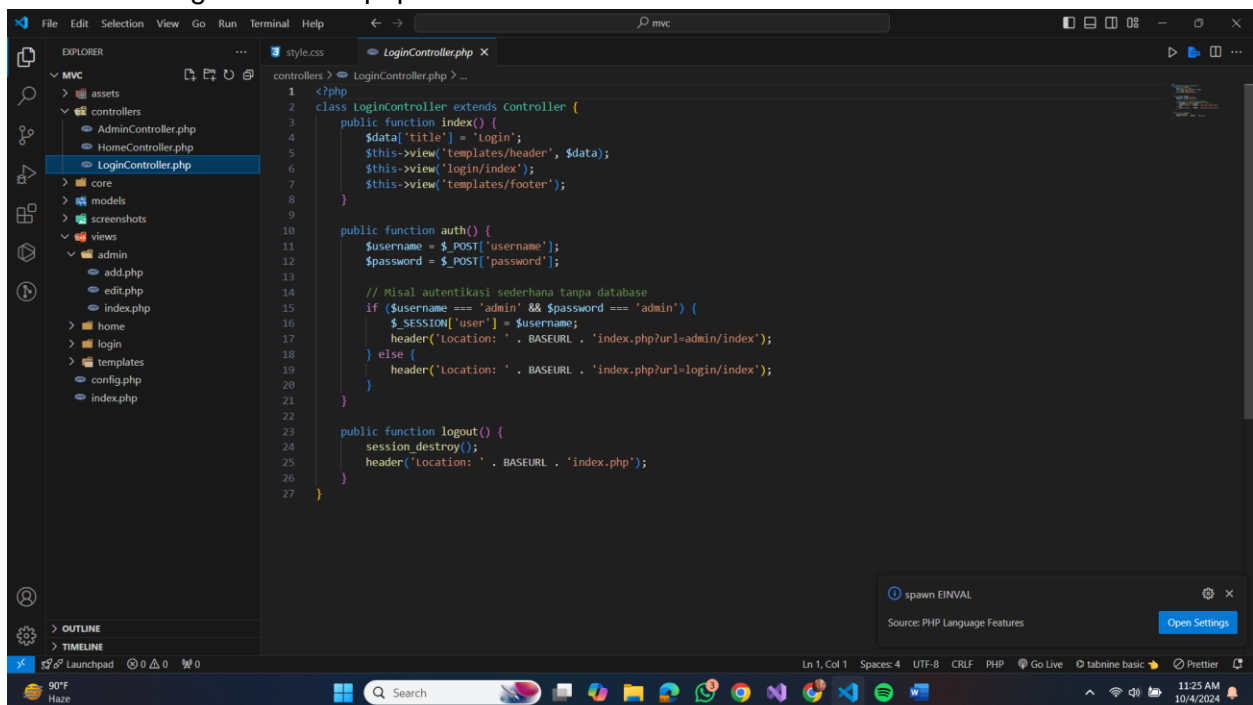
Contorllers/HomeController.php



The screenshot shows the Visual Studio Code editor with the file explorer on the left. The 'MVC' folder is expanded, showing 'controllers', 'core', 'models', 'screenshots', 'views', and 'admin'. The 'controllers' folder is selected, and 'HomeController.php' is highlighted. The main editor displays the code for HomeController.php, which extends the Controller class and has an index() method that sets the title to 'Home' and renders the header, index, and footer views.

```
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 }
```

Contorllers/LoginController.php

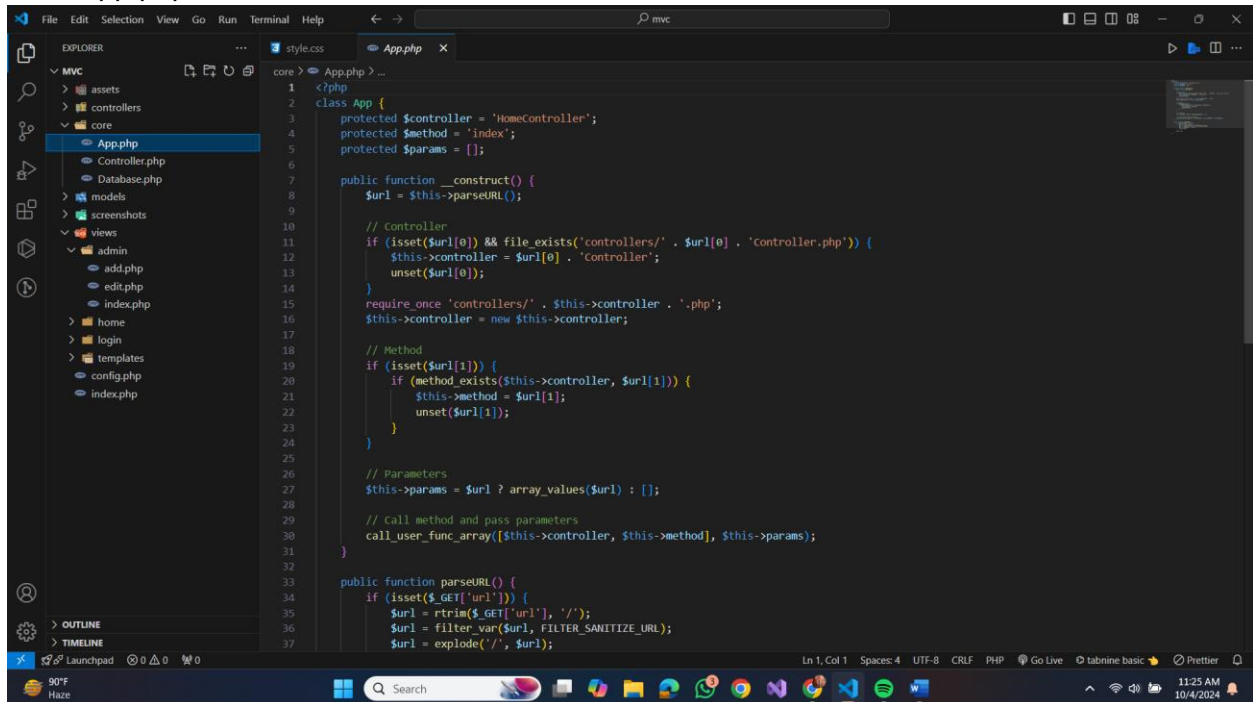


The screenshot shows the Visual Studio Code editor with the file explorer on the left. The 'MVC' folder is expanded, and 'LoginController.php' is highlighted. The main editor displays the code for LoginController.php, which extends the Controller class and has three methods: index(), auth(), and logout(). The index() method sets the title to 'Login' and renders the header, login/index, and footer views. The auth() method checks if the username is 'admin' and the password is 'admin', and if so, sets the session user and redirects to the admin/index page. The logout() method destroys the session and redirects to the index.php page.

```
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    }
27 }
```

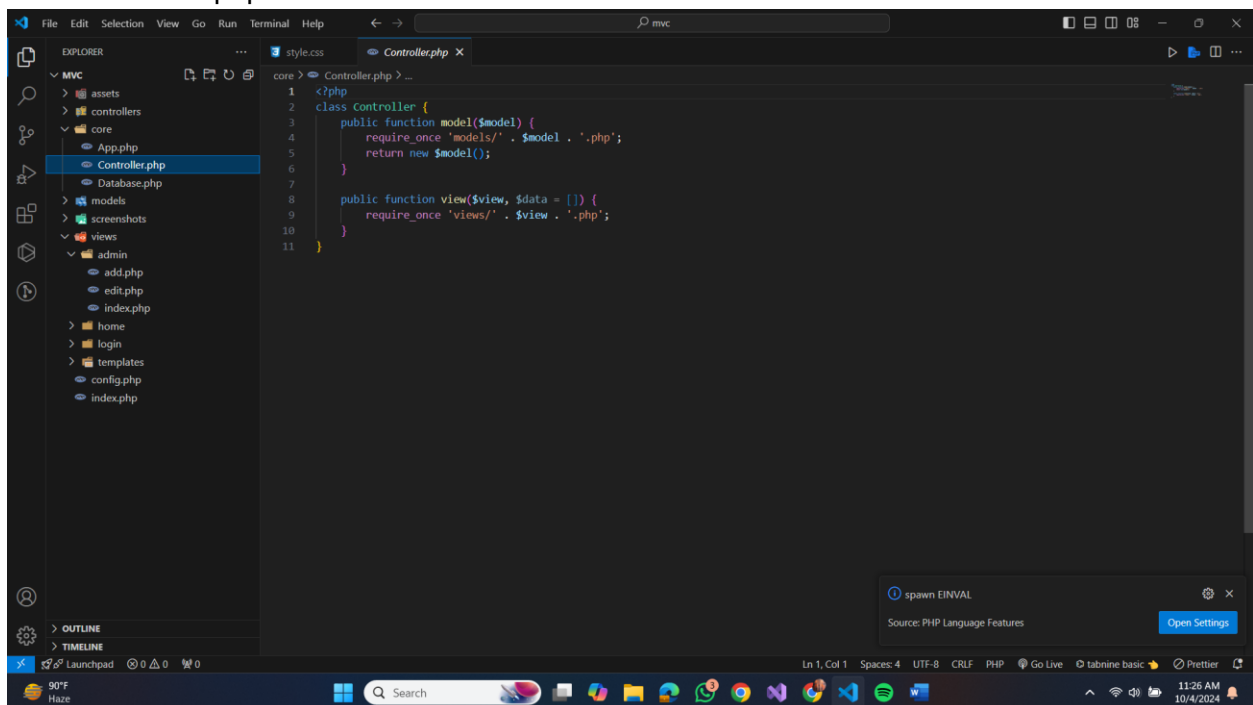
spawn EINVAL
Source: PHP Language Features
Open Settings

Core/App.php



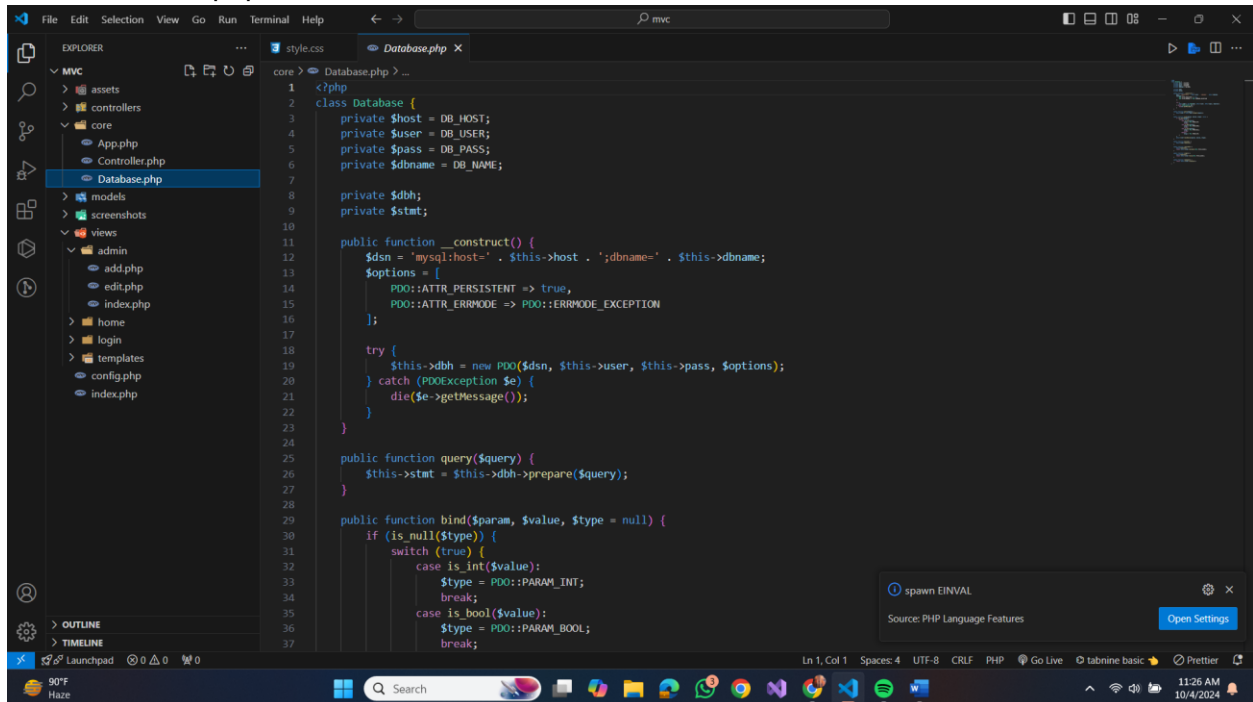
```
1 <?php
2 class App {
3     protected $controller = 'HomeController';
4     protected $method = 'index';
5     protected $params = [];
6
7     public function __construct() {
8         $url = $this->parseURL();
9
10        // Controller
11        if (isset($url[0]) && file_exists('controllers/' . $url[0] . 'Controller.php')) {
12            $this->controller = $url[0] . 'Controller';
13            unset($url[0]);
14        }
15
16        require_once 'controllers/' . $this->controller . '.php';
17        $this->controller = new $this->controller;
18
19        // Method
20        if (isset($url[1])) {
21            if (method_exists($this->controller, $url[1])) {
22                $this->method = $url[1];
23                unset($url[1]);
24            }
25        }
26
27        // Parameters
28        $this->params = $url ? array_values($url) : [];
29
30        // call method and pass parameters
31        call_user_func_array([$this->controller, $this->method], $this->params);
32    }
33
34    public function parseURL() {
35        if (isset($_GET['url'])) {
36            $url = rtrim($_GET['url'], '/');
37            $url = filter_var($url, FILTER_SANITIZE_URL);
38            $url = explode('/', $url);
39        }
40    }
41}
```

Core/Controller.php



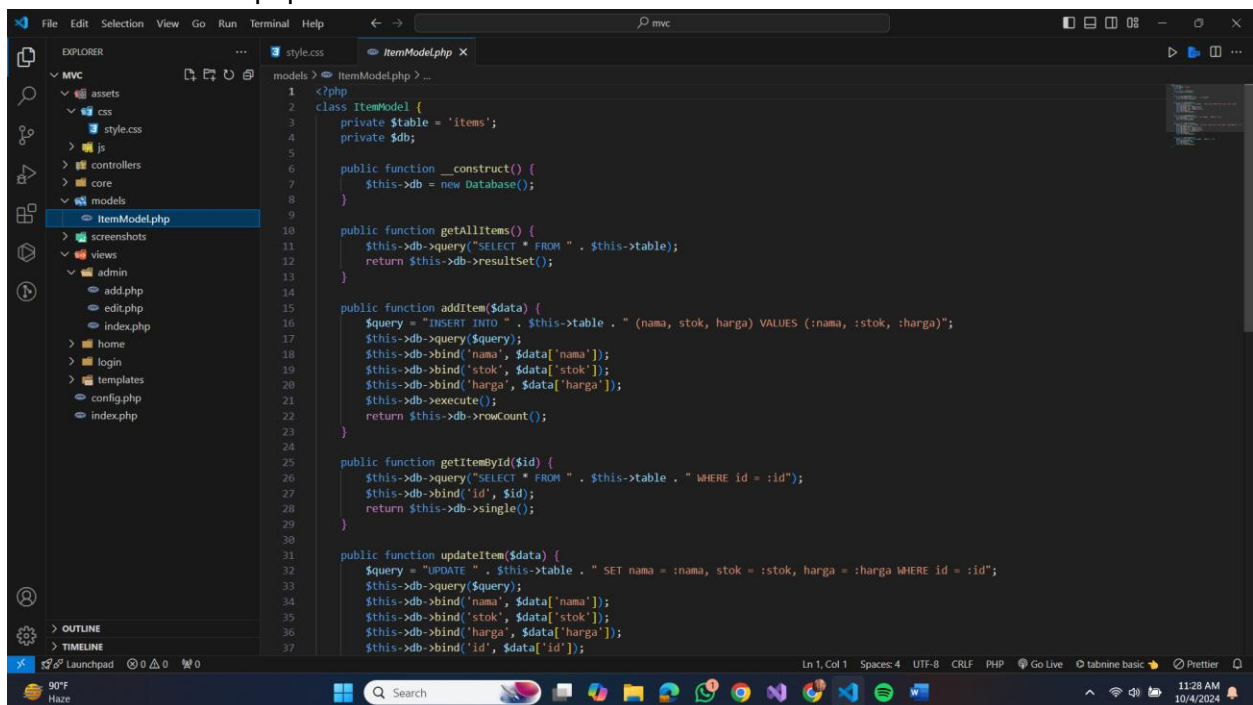
```
1 <?php
2 class Controller {
3     public function model($model) {
4         require_once 'models/' . $model . '.php';
5         return new $model();
6     }
7
8     public function view($view, $data = []) {
9         require_once 'views/' . $view . '.php';
10    }
11}
```

Core/Database.php



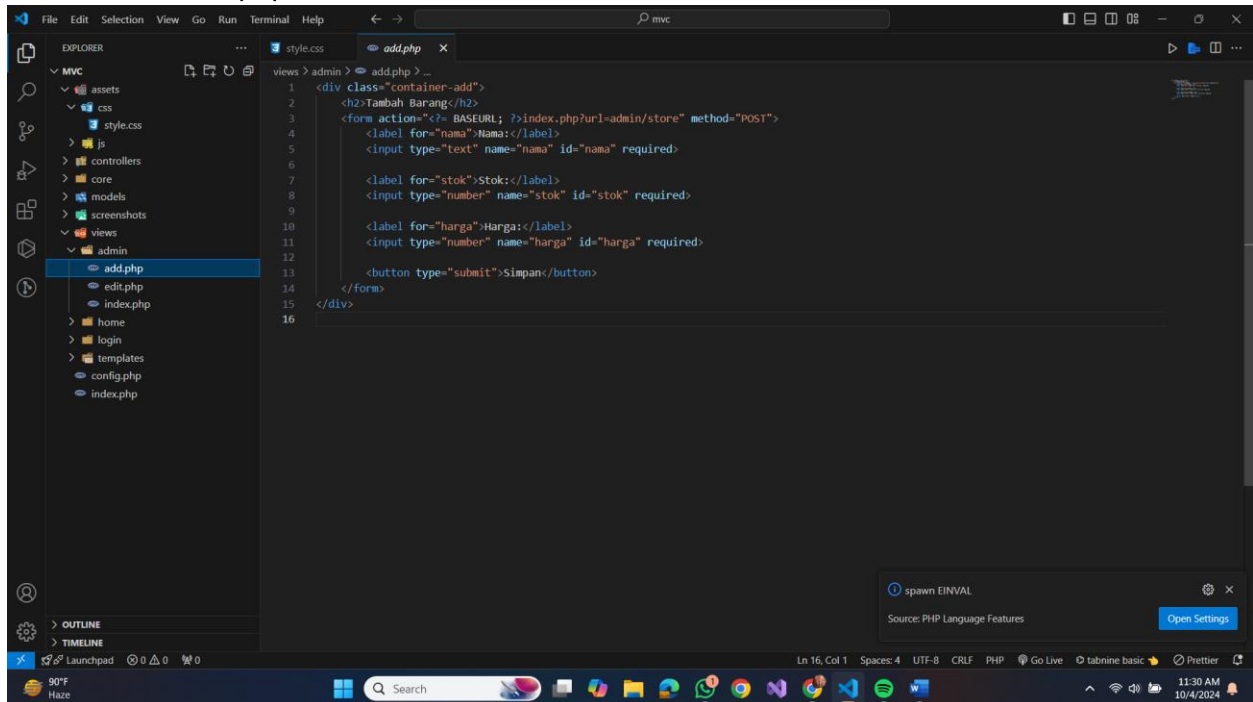
```
1 <?php
2 class Database {
3     private $host = DB_HOST;
4     private $user = DB_USER;
5     private $pass = DB_PASS;
6     private $dbname = DB_NAME;
7
8     private $dbh;
9     private $stmt;
10
11     public function __construct() {
12         $dsn = 'mysql:host=' . $this->host . ';dbname=' . $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
29     public function bind($param, $value, $type = null) {
30         if (is_null($type)) {
31             switch (true) {
32                 case is_int($value):
33                     $type = PDO::PARAM_INT;
34                     break;
35                 case is_bool($value):
36                     $type = PDO::PARAM_BOOL;
37                     break;
```

Models/ItemModel.php



```
1 <?php
2 class ItemModel {
3     private $table = 'items';
4     private $dbh;
5
6     public function __construct() {
7         $this->dbh = new Database();
8     }
9
10     public function getAllItems() {
11         $this->dbh->query("SELECT * FROM " . $this->table);
12         return $this->dbh->resultSet();
13     }
14
15     public function addItem($data) {
16         $query = "INSERT INTO " . $this->table . " (nama, stok, harga) VALUES (:nama, :stok, :harga)";
17         $this->dbh->query($query);
18         $this->dbh->bind('nama', $data['nama']);
19         $this->dbh->bind('stok', $data['stok']);
20         $this->dbh->bind('harga', $data['harga']);
21         $this->dbh->execute();
22         return $this->dbh->rowCount();
23     }
24
25     public function getItemById($id) {
26         $this->dbh->query("SELECT * FROM " . $this->table . " WHERE id = :id");
27         $this->dbh->bind('id', $id);
28         return $this->dbh->single();
29     }
30
31     public function updateItem($data) {
32         $query = "UPDATE " . $this->table . " SET nama = :nama, stok = :stok, harga = :harga WHERE id = :id";
33         $this->dbh->query($query);
34         $this->dbh->bind('nama', $data['nama']);
35         $this->dbh->bind('stok', $data['stok']);
36         $this->dbh->bind('harga', $data['harga']);
37         $this->dbh->bind('id', $data['id']);
```

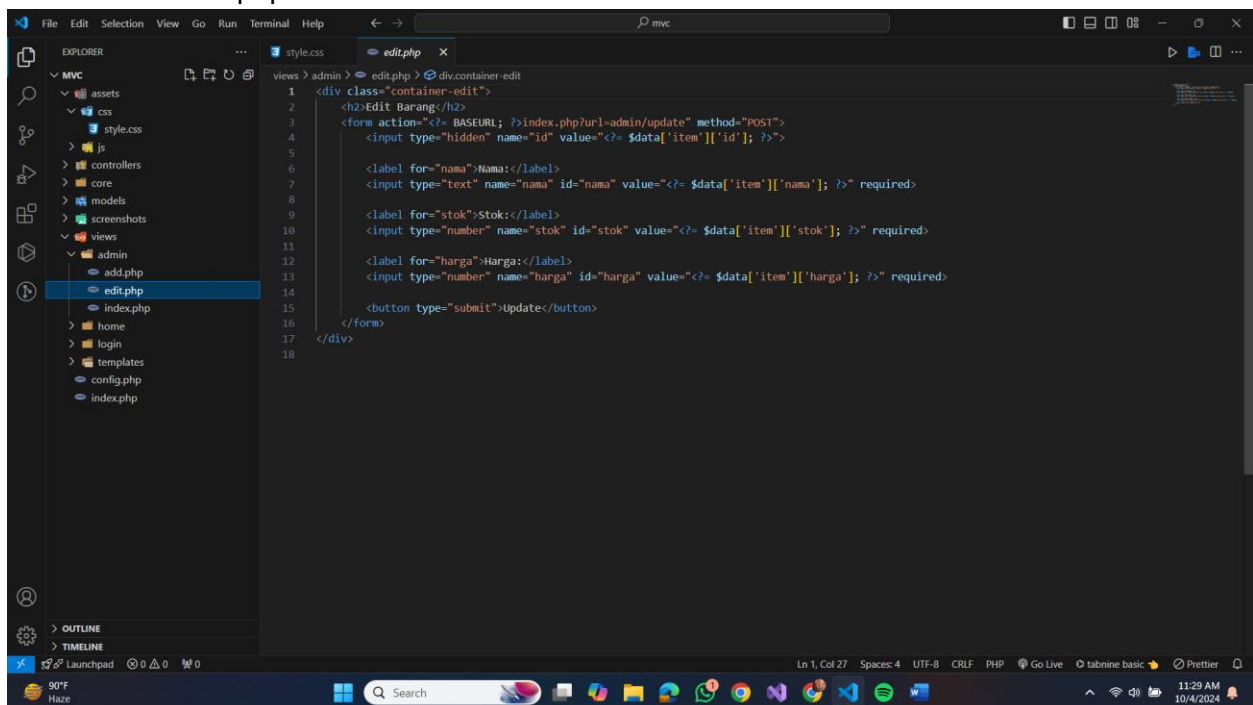
Views/admin/add.php



```
1 <div class="container-add">
2   <h2>Tambah Barang</h2>
3   <form action="php echo BASEURL; ?/index.php?url=admin/store" method="POST">
4     <label for="nama">Nama:</label>
5     <input type="text" name="nama" id="nama" required>
6
7     <label for="stok">Stok:</label>
8     <input type="number" name="stok" id="stok" required>
9
10    <label for="harga">Harga:</label>
11    <input type="number" name="harga" id="harga" required>
12
13    <button type="submit">Simpan</button>
14  </form>
15 </div>
16
```

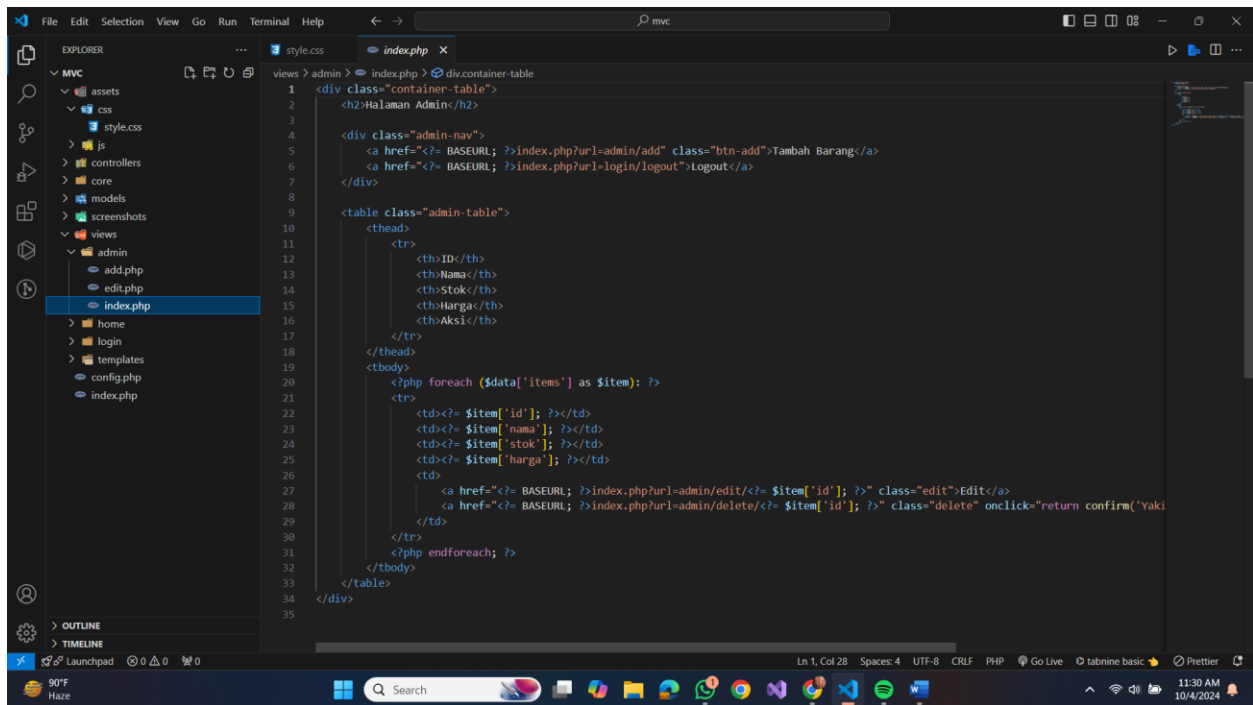
spawn EINVAL
Source: PHP Language Features
Open Settings

Views/admin/edit.php



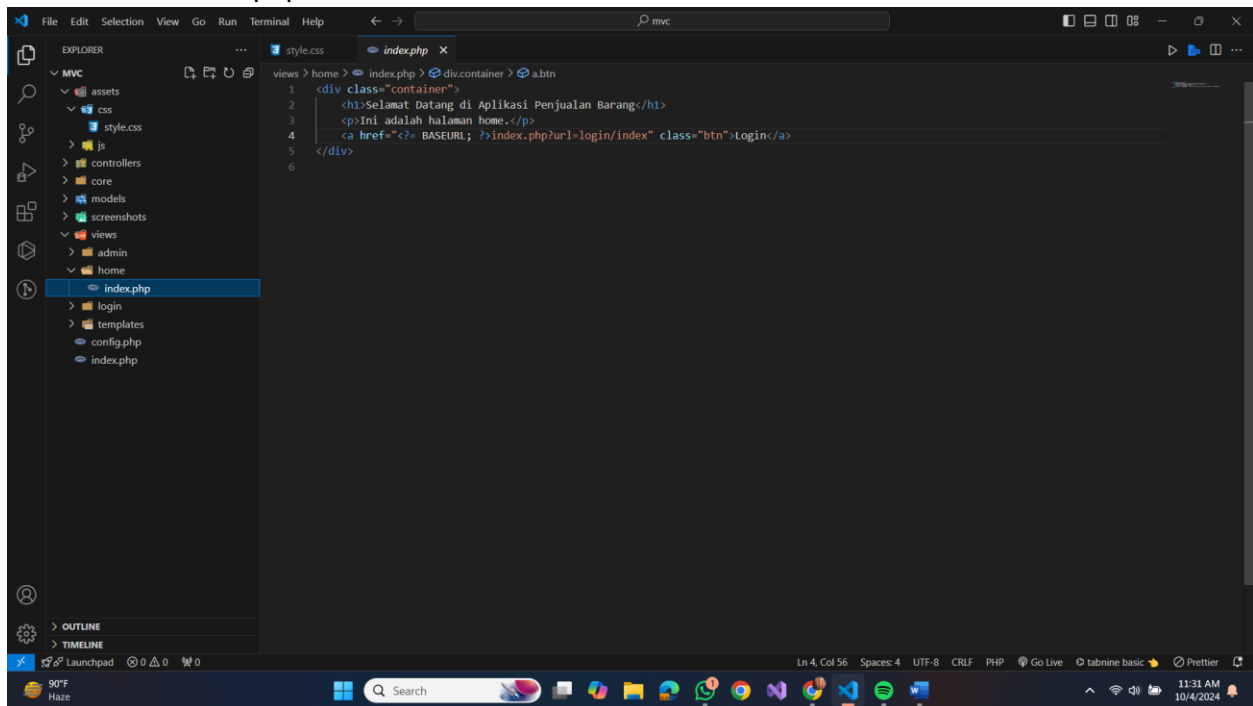
```
1 <div class="container-edit">
2   <h2>Edit Barang</h2>
3   <form action="php echo BASEURL; ?/index.php?url=admin/update" method="POST">
4     <input type="hidden" name="id" value="php echo $data['item']['id']; ?">
5
6     <label for="nama">Nama:</label>
7     <input type="text" name="nama" id="nama" value="php echo $data['item']['nama']; ?" required>
8
9     <label for="stok">Stok:</label>
10    <input type="number" name="stok" id="stok" value="php echo $data['item']['stok']; ?" required>
11
12    <label for="harga">Harga:</label>
13    <input type="number" name="harga" id="harga" value="php echo $data['item']['harga']; ?" required>
14
15    <button type="submit">Update</button>
16  </form>
17 </div>
18
```

Views/admin/index.php



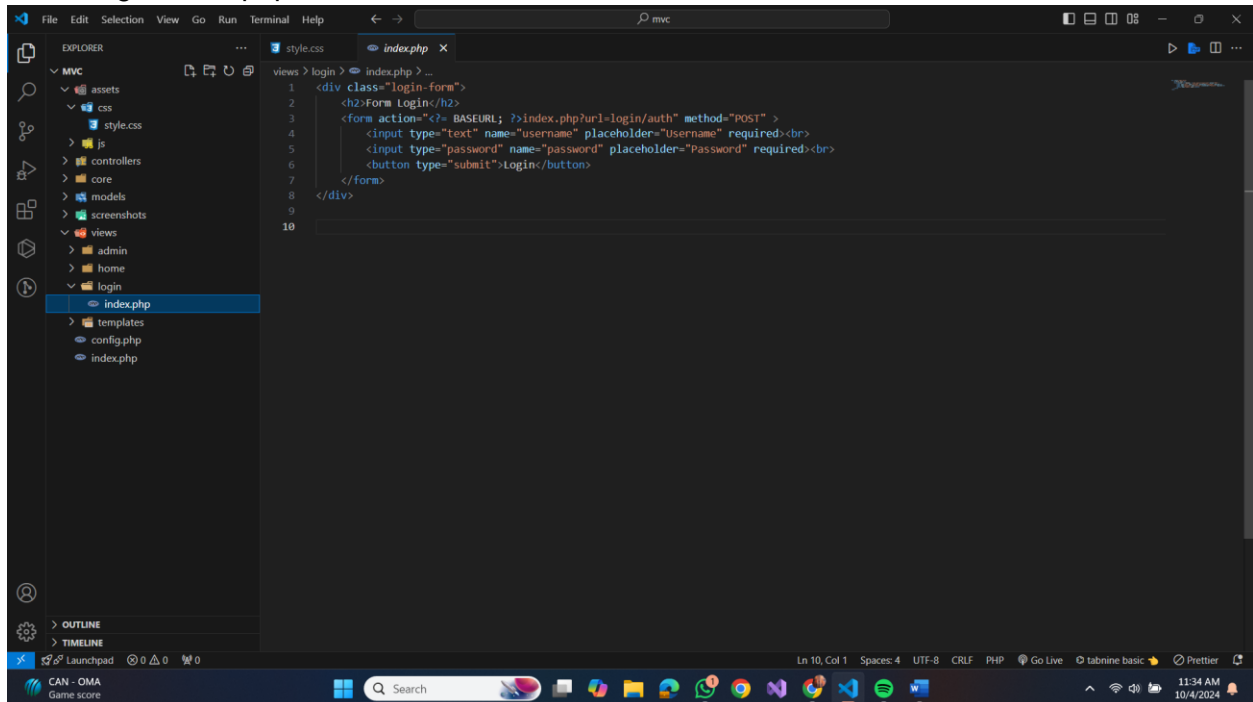
```
1 <div class="container-table">
2   <h2>Halaman Admin</h2>
3
4   <div class="admin-nav">
5     <a href="= BASEURL; ?/index.php?url=admin/add" class="btn-add">Tambah Barang</a>
6     <a href="= BASEURL; ?/index.php?url=admin/login/logout">Logout</a>
7   </div>
8
9   <table class="admin-table">
10    <thead>
11      <tr>
12        <th>ID</th>
13        <th>Nama</th>
14        <th>Stok</th>
15        <th>Harga</th>
16        <th>Aksi</th>
17      </tr>
18    </thead>
19    <tbody>
20      <?php foreach ($data['items'] as $item): ?>
21        <tr>
22          <td>= $item['id']; ?&gt;&lt;/td&gt;
23          &lt;td&gt;<?= $item['nama']; ?&gt;&lt;/td&gt;
24          &lt;td&gt;<?= $item['stok']; ?&gt;&lt;/td&gt;
25          &lt;td&gt;<?= $item['harga']; ?&gt;&lt;/td&gt;
26          &lt;td&gt;
27            &lt;a href="<?= BASEURL; ?/index.php?url=admin/edit/= $item['id']; ?&gt;" class="edit"&gt;Edit&lt;/a&gt;
28            &lt;a href="<?= BASEURL; ?/index.php?url=admin/delete/= $item['id']; ?&gt;" class="delete" onclick="return confirm('Yakin
29            &lt;/td&gt;
30          &lt;/tr&gt;
31        &lt;?php endforeach; ?&gt;
32      &lt;/tbody&gt;
33    &lt;/table&gt;
34  &lt;/div&gt;
35</pre
```

Views/home/index.php



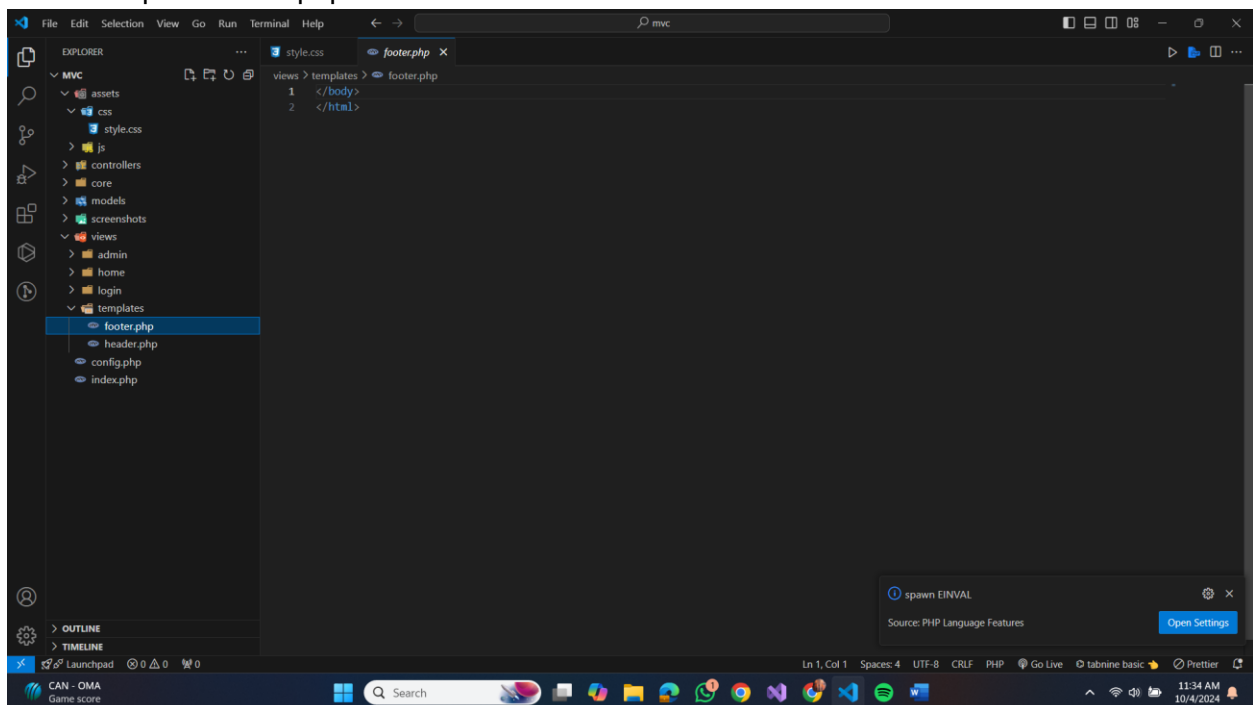
```
1 <div class="container">
2   <h1>Selamat Datang di Aplikasi Penjualan Barang</h1>
3   <p>Ini adalah halaman home.</p>
4   <a href="= BASEURL; ?/index.php?url=admin/login/index" class="btn">Login</a>
5 </div>
6
```

Views/login/index.php



```
1 <div class="login-form">
2   <h2>Form Login</h2>
3   <form action="php echo 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>
9
10
```

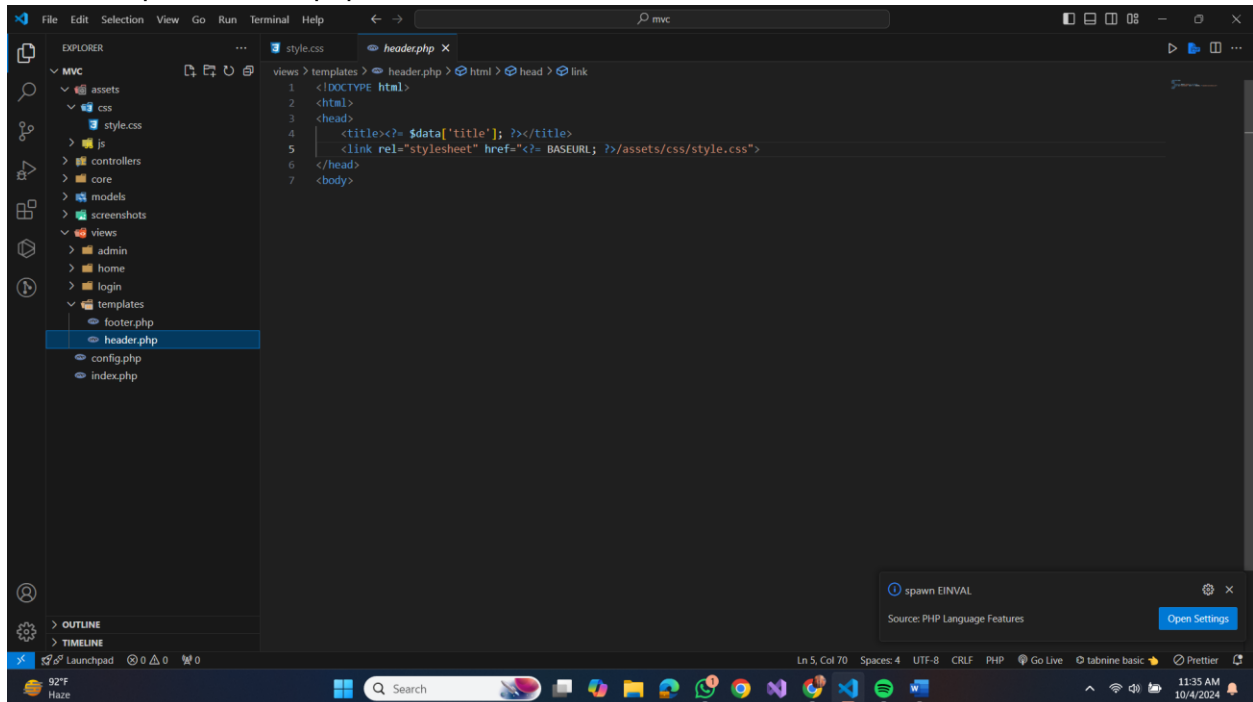
Views/template/footer.php



```
1 </body>
2 </html>
```

spawn EINTR
Source: PHP Language Features
Open Settings

Views/template/header.php

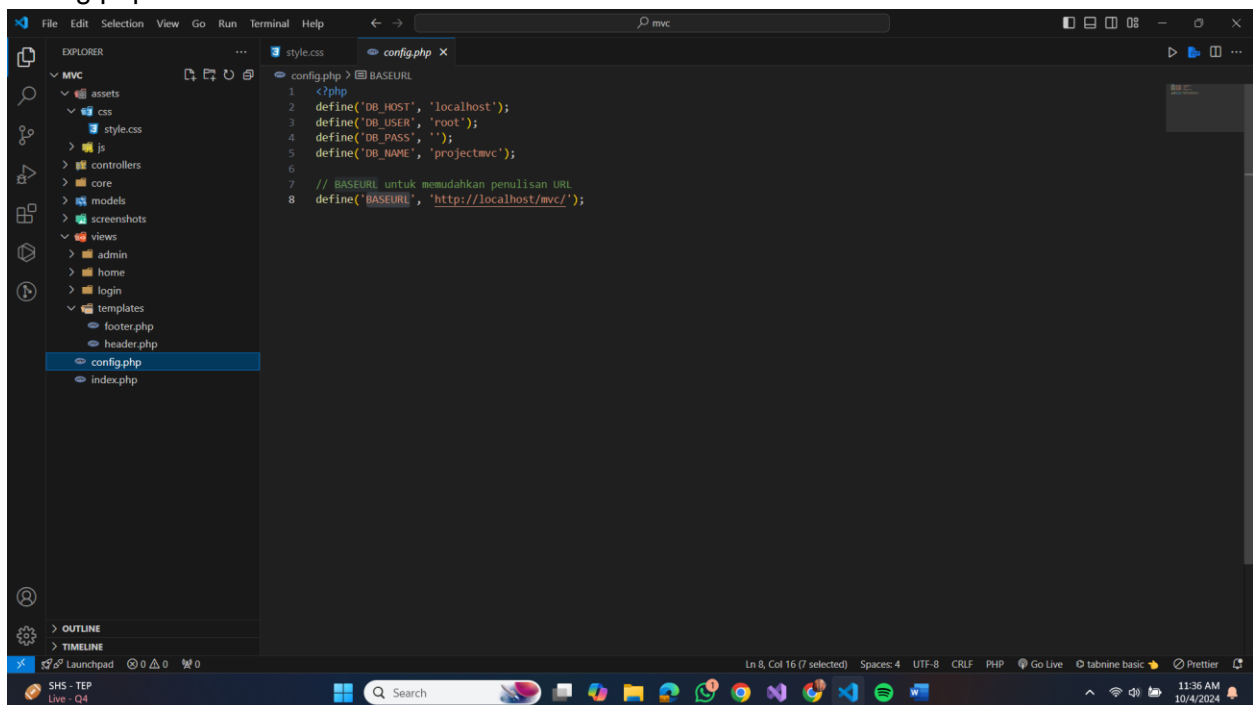


The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying the project structure. The file `header.php` is selected under `views > templates`. The main editor window shows the following HTML code:

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

A status bar at the bottom indicates the current position is Line 5, Column 70. A notification in the bottom right corner states "spawn EINVAL" with a link to "Open Settings".

Config.php

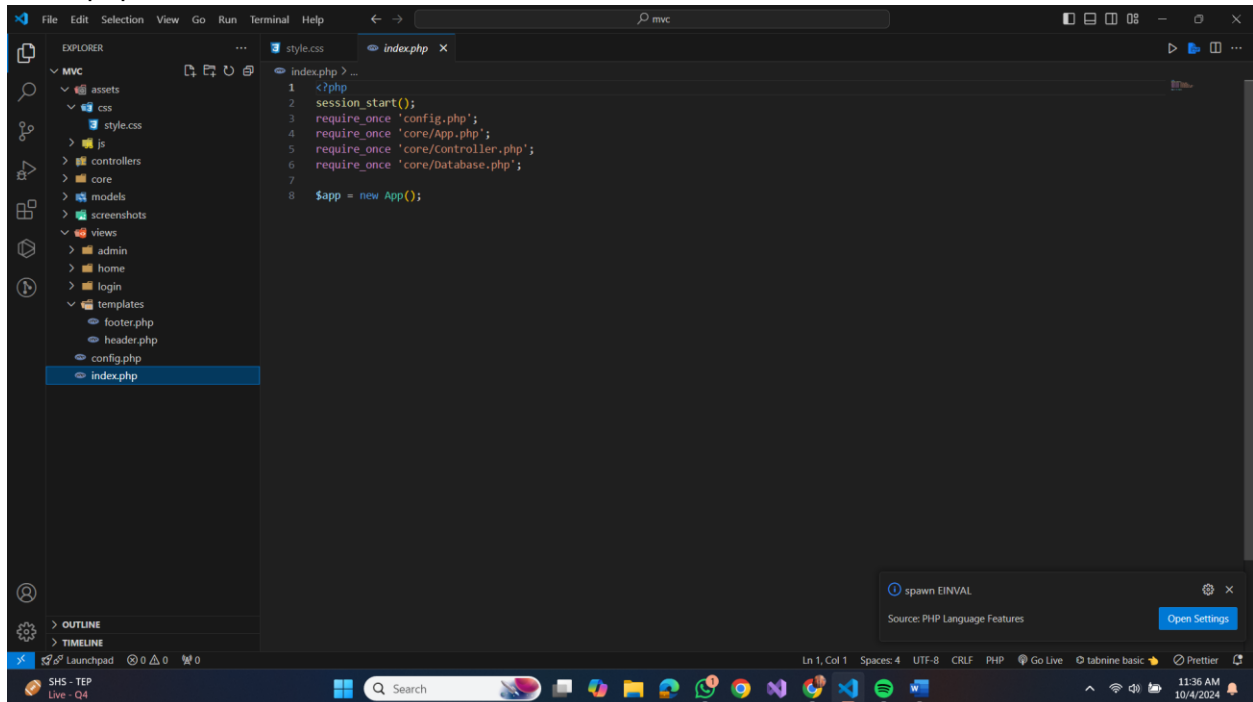


The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying the project structure. The file `config.php` is selected under `views > templates`. The main editor window shows the following PHP code:

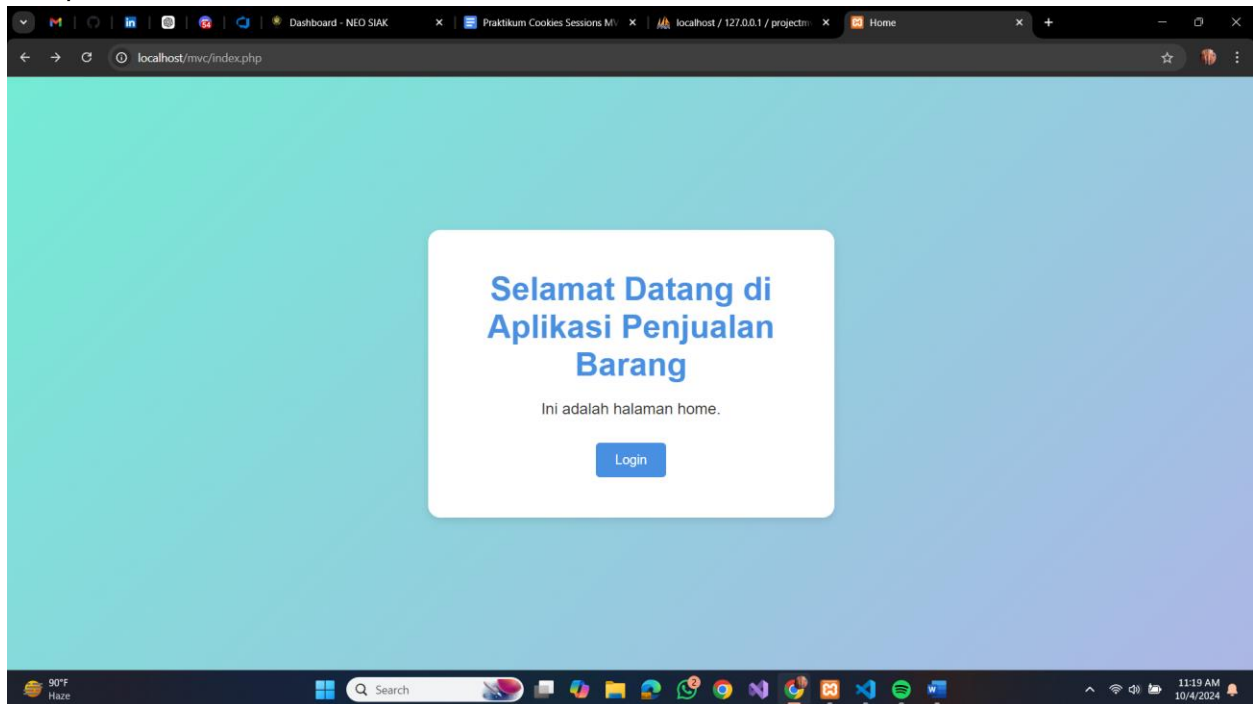
```
1 <?php
2 define('DB_HOST', 'localhost');
3 define('DB_USER', 'root');
4 define('DB_PASS', '');
5 define('DB_NAME', 'projectmvc');
6
7 // BASEURL untuk memudahkan penulisan URL
8 define('BASEURL', 'http://localhost/mvc/');
```

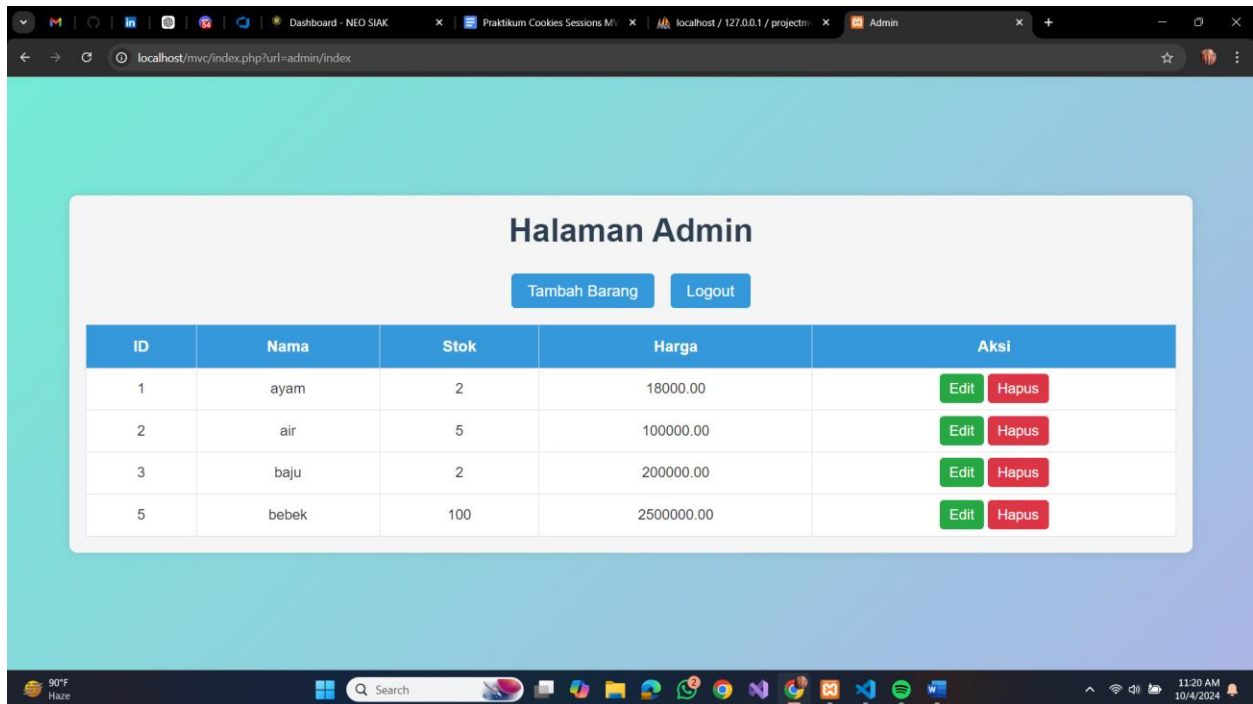
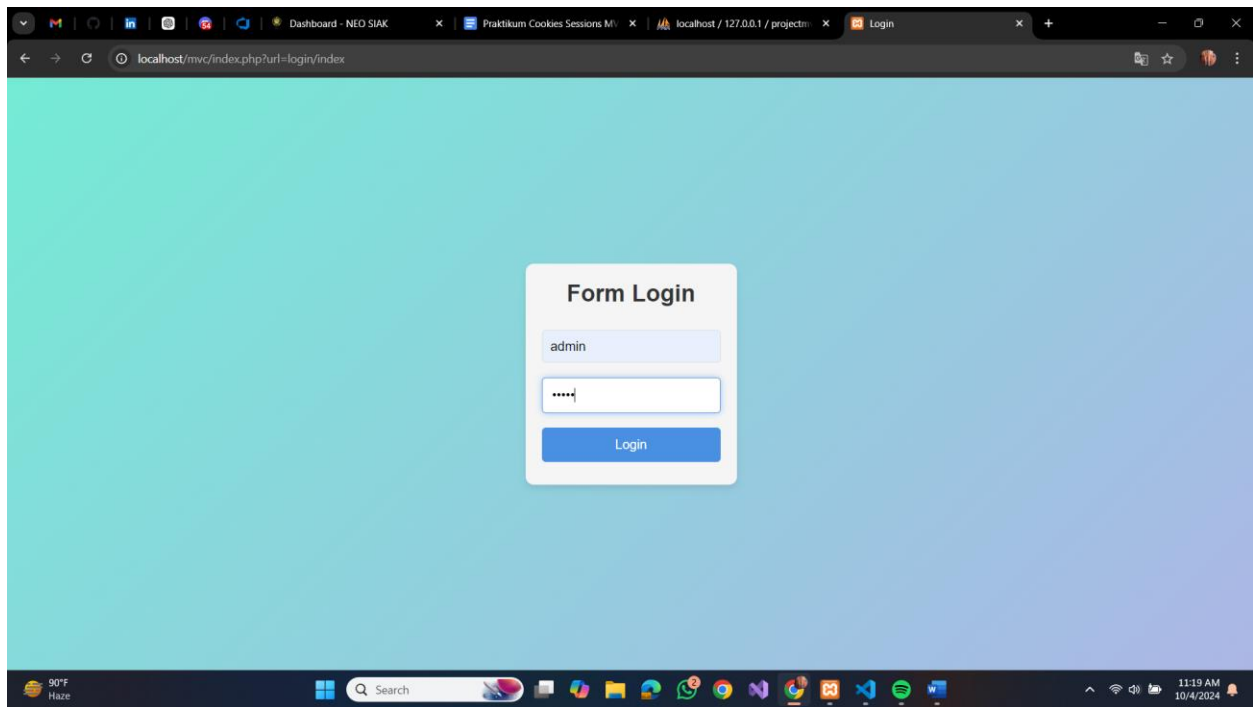
A status bar at the bottom indicates the current position is Line 8, Column 16 (7 selected). The taskbar at the bottom shows the system clock as 11:36 AM on 10/4/2024.

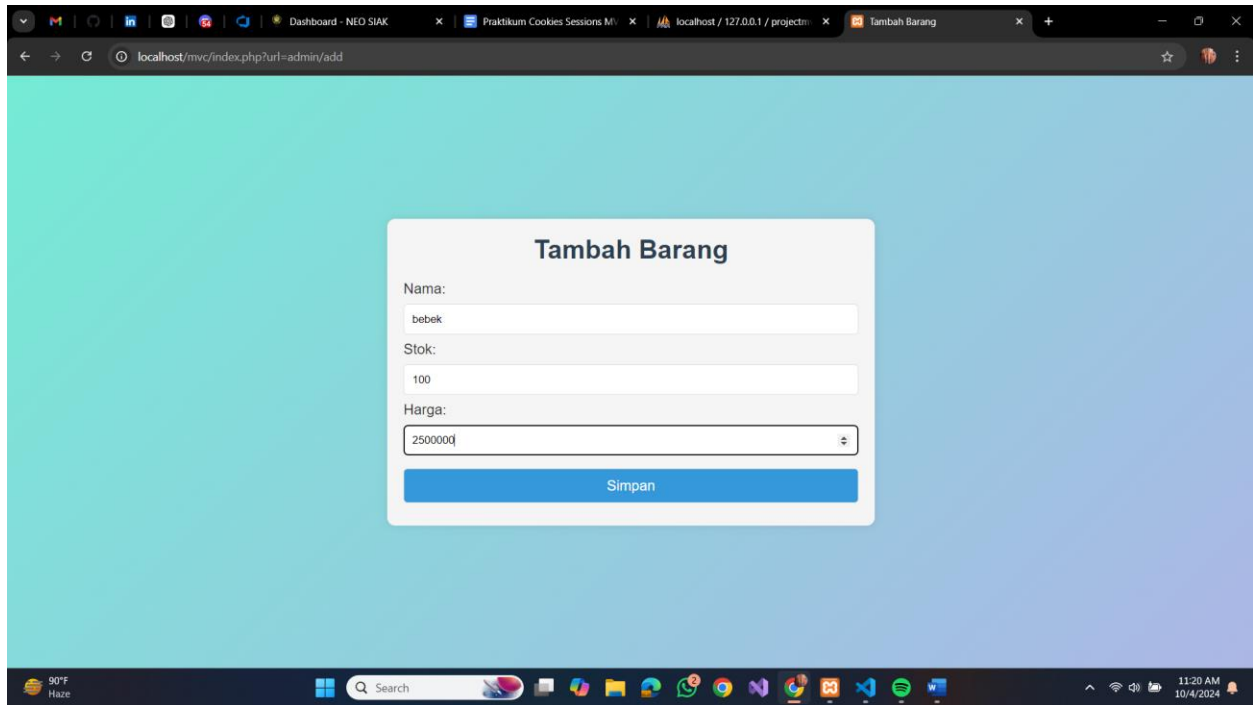
Index.php

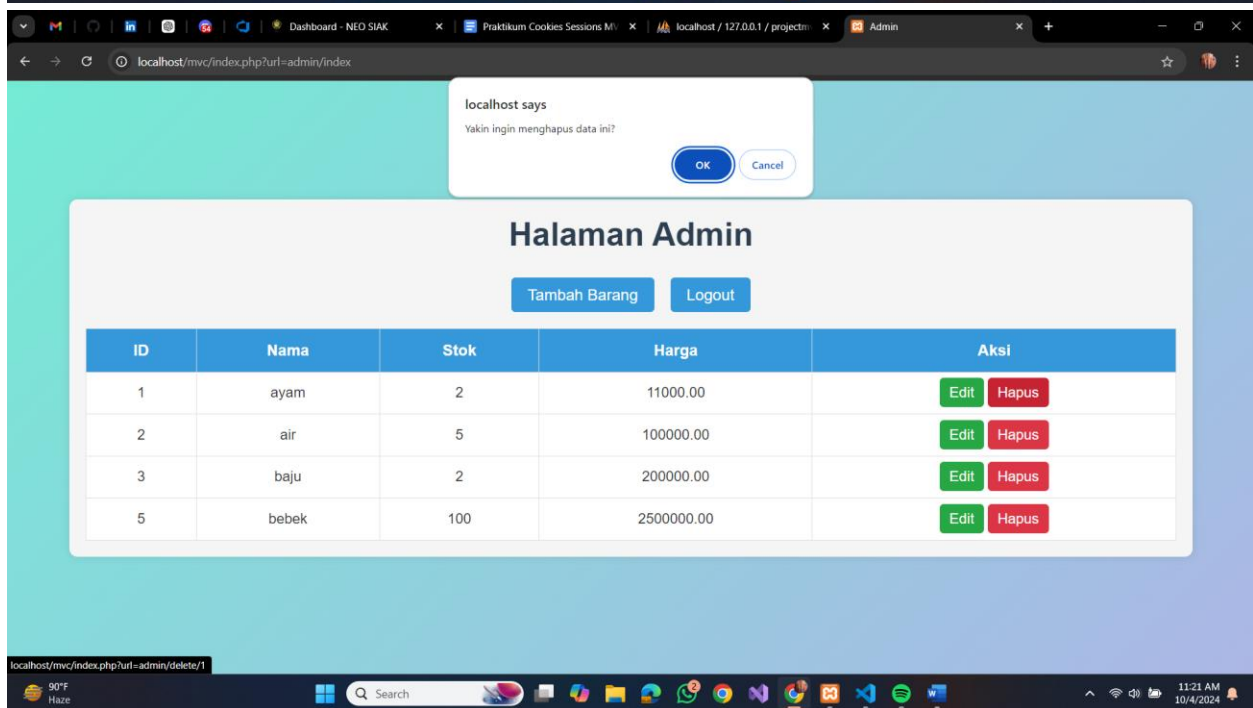
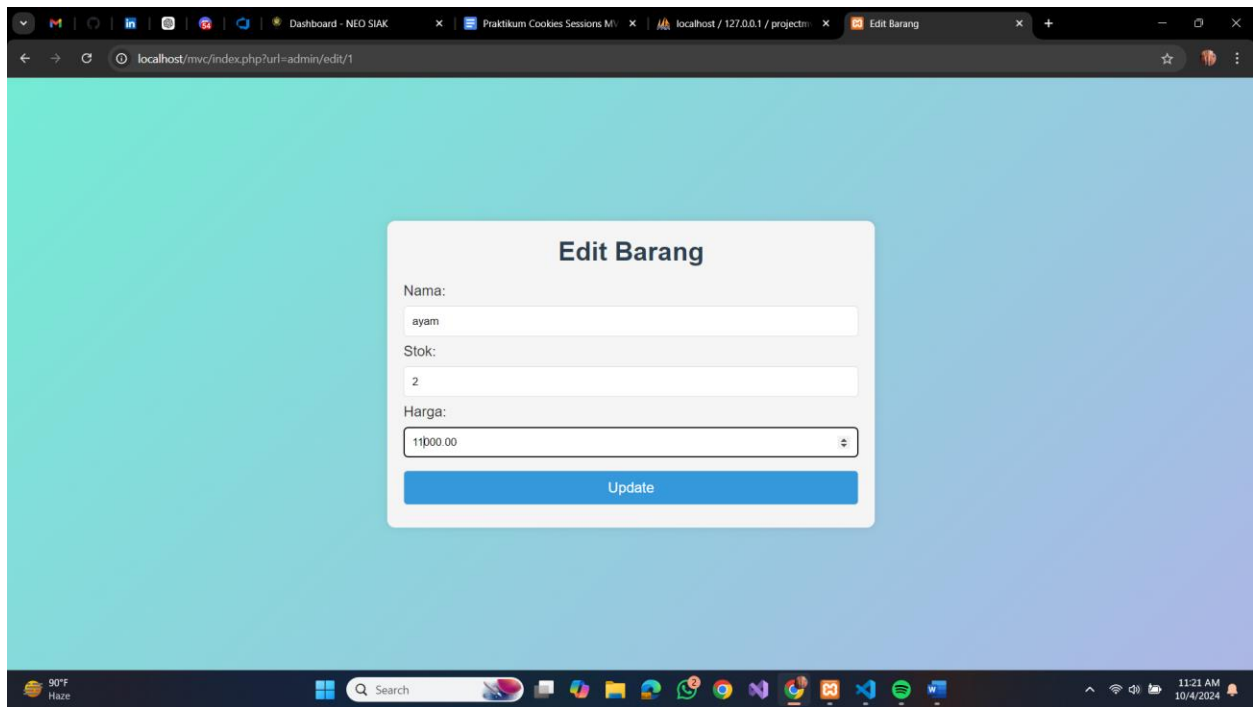


Tampilan:









Database:

The screenshot shows the phpMyAdmin web interface. The left sidebar displays a database structure tree with the following items: Baru, buku_tamu, daya, db_perpusteknik, information_schema, inventaris, mysql, mysql2, mywork, performance_schema, phpmyadmin, prak3, prak5, projectmvc, report, struk_pin, test, and univ. The 'projectmvc' database is selected, and the 'items' table is viewed. The table structure is as follows:

id	nama	stok	harga
2	air	5	100000.00
3	baju	2	200000.00
5	bebek	100	2500000.00

Below the table, there are options for 'Operasi hasil kueri' (Query Results Operation): Cetak, Salin ke clipboard, Ekspor, Tampilkan bagan, and Buat tampilan. The status bar at the bottom indicates the system temperature is 90°F and the date is 10/4/2024.