

# **LAPORAN TUGAS PRAKTIKUM PEMROGRAMAN BERBASIS WEB**

*“Tugas 4 (Project Aplikasi Buku Tamu menggunakan OOP, PDO, dan MVC)”*



Oleh:

Nama : Adam Kaze

NPM : 4522210094

Kelas : A

Dosen:

Adi Wahyu Pribadi , S.Si., M.Kom

**S1-Teknik Informatika**

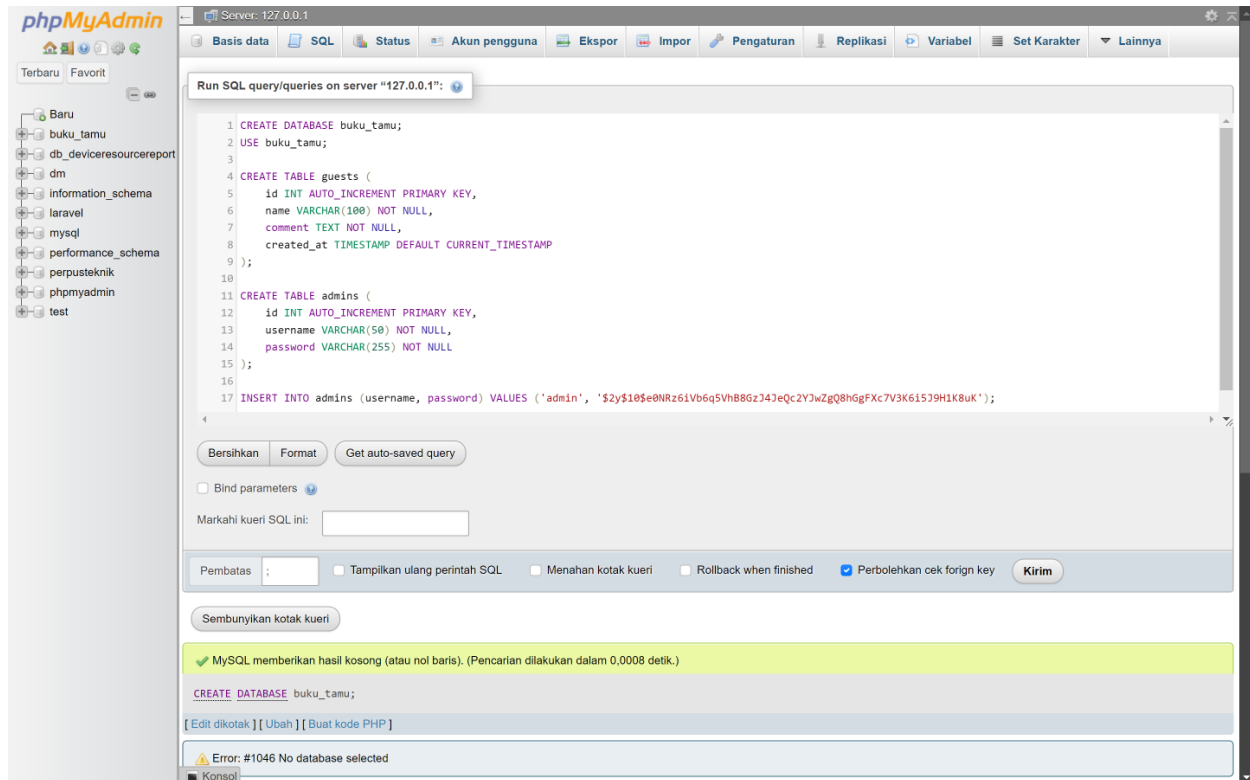
**Fakultas Teknik Universitas Pancasila**

**2024**

## Tujuan Praktikum

Praktikum kali ini bertujuan untuk memahami cara membuat Aplikasi Web Buku Tamu sederhana dengan konsep OOP, PDO dan MVC menggunakan Bahasa pemrograman PHP.

## Pembuatan Database

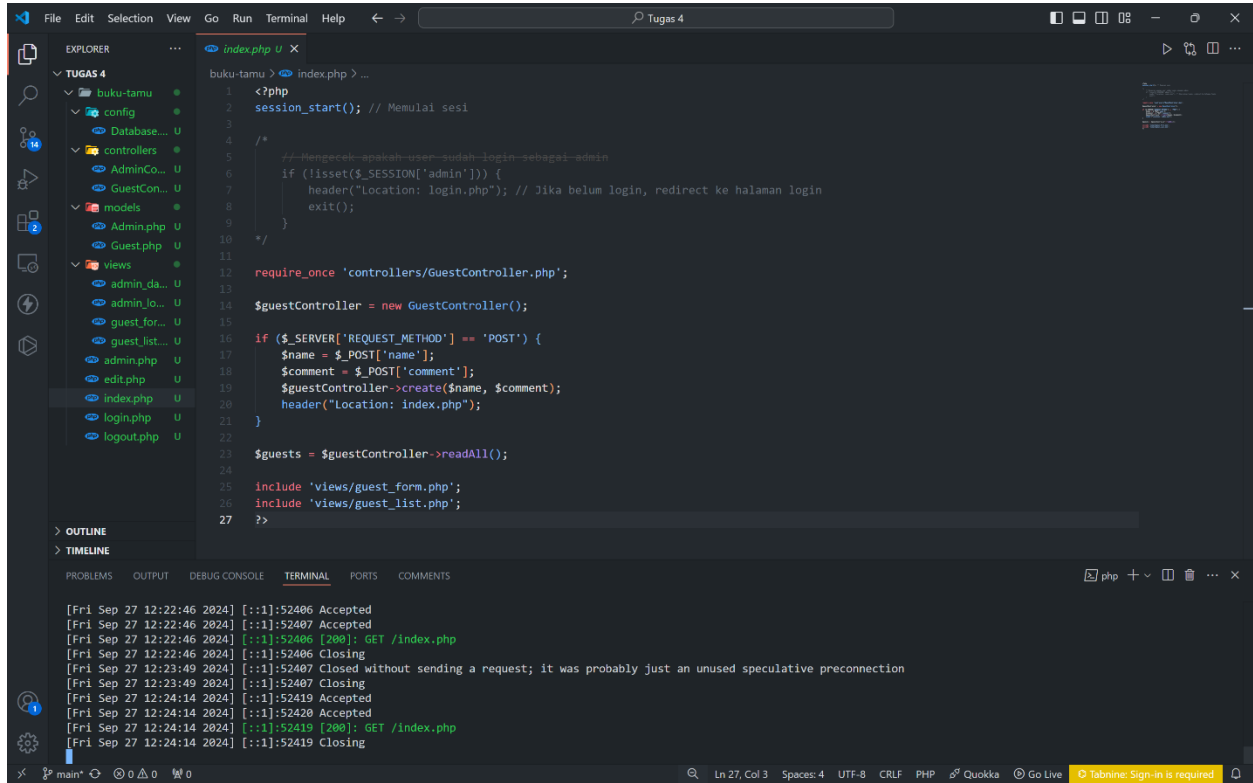


## Link Github:

<https://github.com/Adam-Kaze/PBW/tree/main/Tugas%204>

# Screenshoot Source Code PHP

## 1. index.php



The screenshot shows the VS Code editor with the file explorer on the left displaying the project structure for 'TUGAS 4'. The 'index.php' file is selected and its code is visible in the editor. The code includes session management, a login check, and a guest controller. The terminal at the bottom shows the output of the script, including accepted connections and GET requests to /index.php.

```
<?php
session_start(); // Memulai sesi

/*
 * Mengecek apakah user sudah login sebagai admin
 */
if (isset($_SESSION['admin'])) {
    header("Location: login.php"); // Jika belum login, redirect ke halaman login
    exit();
}

require_once 'controllers/GuestController.php';

$guestController = new GuestController();

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $name = $_POST['name'];
    $comment = $_POST['comment'];
    $guestController->create($name, $comment);
    header("Location: index.php");
}

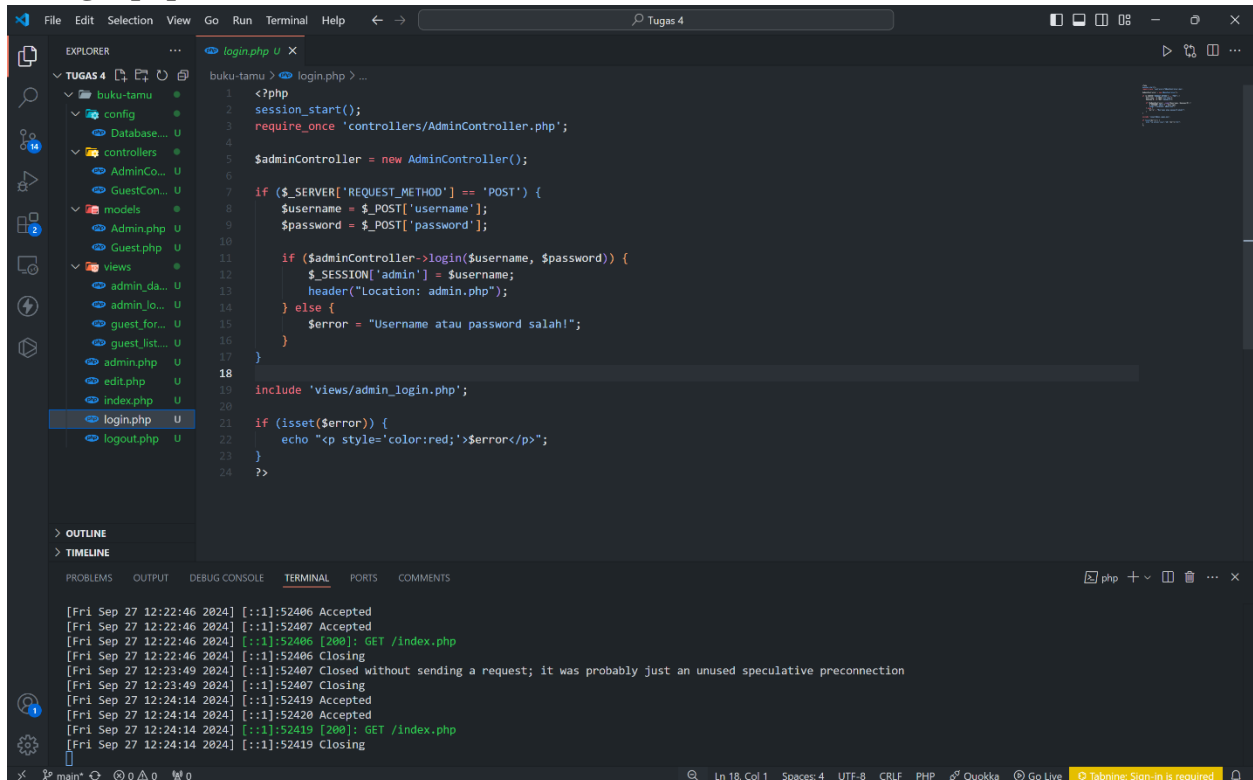
$guests = $guestController->readAll();

include 'views/guest_form.php';
include 'views/guest_list.php';
?>
```

Terminal Output:

```
[Fri Sep 27 12:22:46 2024] [::1]:52406 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52407 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52406 [200]: GET /index.php
[Fri Sep 27 12:22:46 2024] [::1]:52406 Closing
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closed without sending a request; it was probably just an unused speculative preconnection
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closing
[Fri Sep 27 12:24:14 2024] [::1]:52419 Accepted
[Fri Sep 27 12:24:14 2024] [::1]:52420 Accepted
[Fri Sep 27 12:24:14 2024] [::1]:52419 [200]: GET /index.php
[Fri Sep 27 12:24:14 2024] [::1]:52419 Closing
```

## 2. login.php



The screenshot shows the VS Code editor with the file explorer on the left displaying the project structure for 'TUGAS 4'. The 'login.php' file is selected and its code is visible in the editor. The code includes session management, a login check, and a guest controller. The terminal at the bottom shows the output of the script, including accepted connections and GET requests to /index.php.

```
<?php
session_start();
require_once 'controllers/AdminController.php';

$adminController = new AdminController();

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $username = $_POST['username'];
    $password = $_POST['password'];

    if ($adminController->login($username, $password)) {
        $_SESSION['admin'] = $username;
        header("Location: admin.php");
    } else {
        $error = "Username atau password salah!";
    }
}

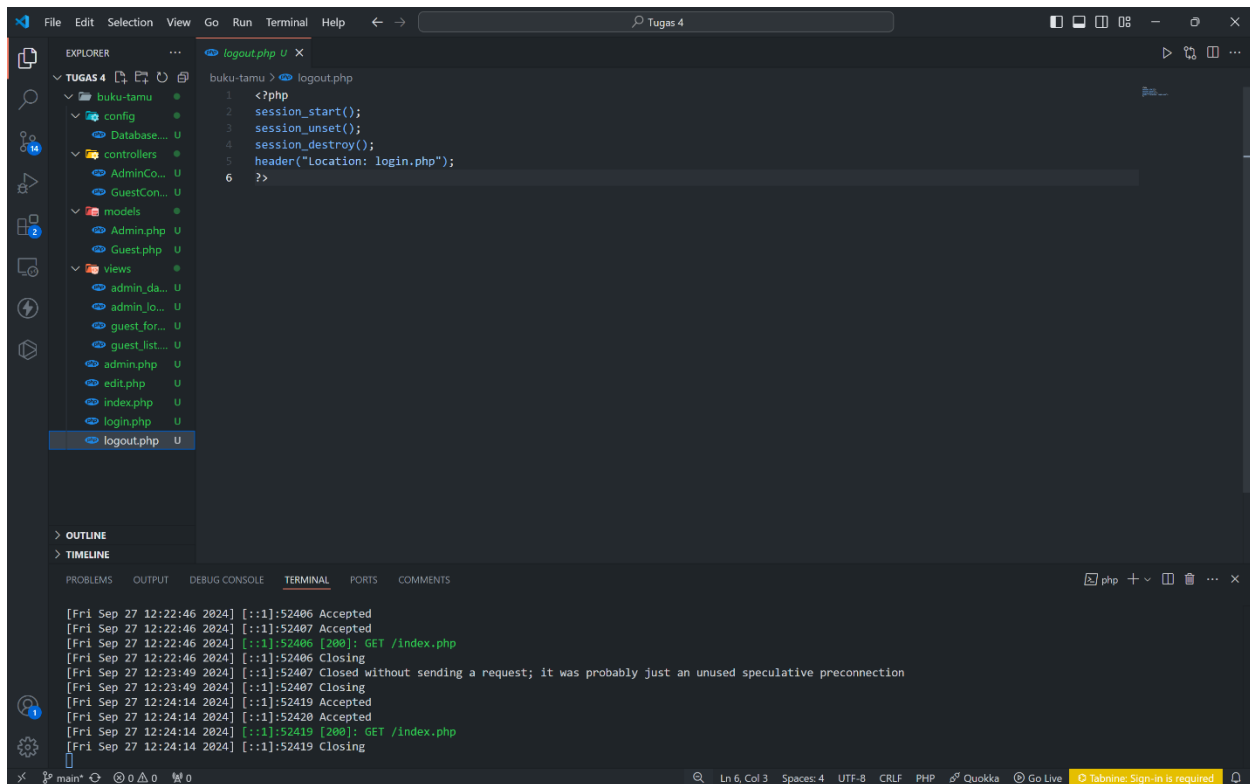
include 'views/admin_login.php';

if (isset($error)) {
    echo "<p style='color:red;'>$error</p>";
}
?>
```

Terminal Output:

```
[Fri Sep 27 12:22:46 2024] [::1]:52406 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52407 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52406 [200]: GET /index.php
[Fri Sep 27 12:22:46 2024] [::1]:52406 Closing
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closed without sending a request; it was probably just an unused speculative preconnection
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closing
[Fri Sep 27 12:24:14 2024] [::1]:52419 Accepted
[Fri Sep 27 12:24:14 2024] [::1]:52420 Accepted
[Fri Sep 27 12:24:14 2024] [::1]:52419 [200]: GET /index.php
[Fri Sep 27 12:24:14 2024] [::1]:52419 Closing
```

### 3. logout.php

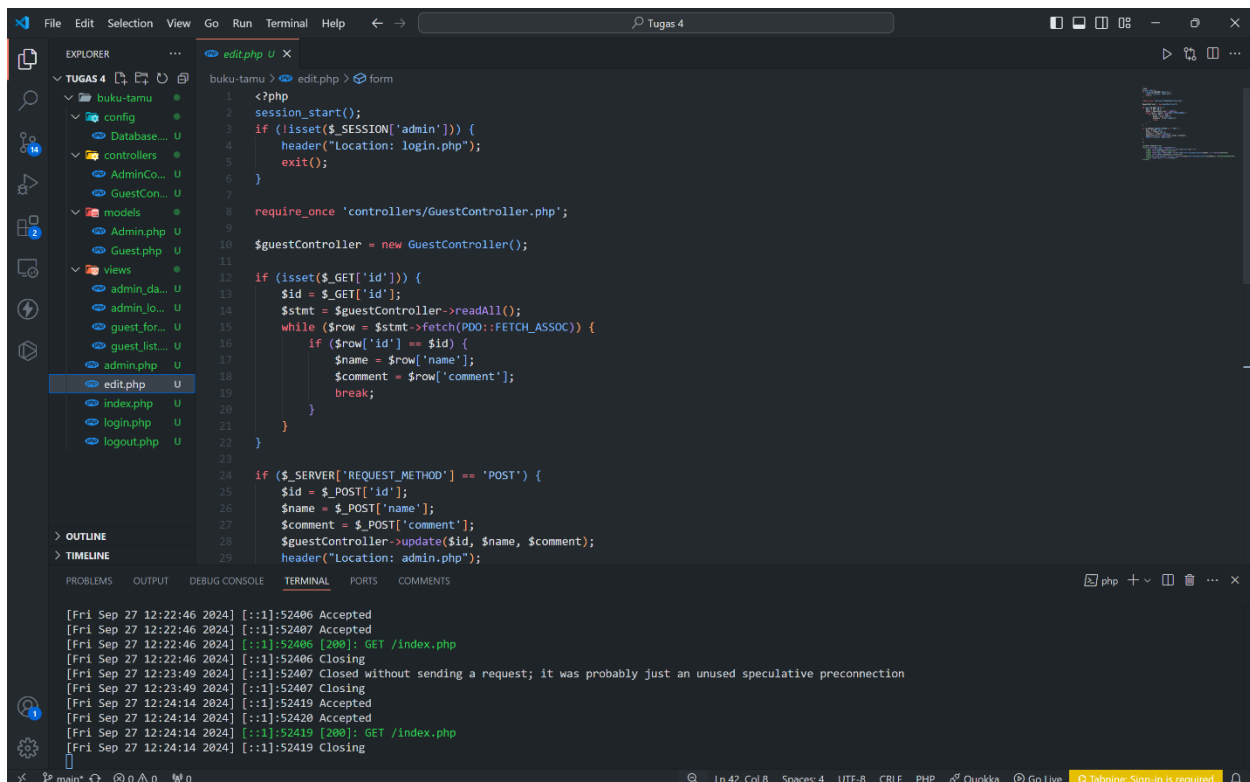


```
1 <?php
2 session_start();
3 session_unset();
4 session_destroy();
5 header("Location: login.php");
6 ?>
```

Terminal output:

```
[Fri Sep 27 12:22:46 2024] [::1]:52406 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52407 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52406 [200]: GET /index.php
[Fri Sep 27 12:22:46 2024] [::1]:52406 Closing
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closed without sending a request; it was probably just an unused speculative preconnection
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closing
[Fri Sep 27 12:24:14 2024] [::1]:52419 Accepted
[Fri Sep 27 12:24:14 2024] [::1]:52420 Accepted
[Fri Sep 27 12:24:14 2024] [::1]:52419 [200]: GET /index.php
[Fri Sep 27 12:24:14 2024] [::1]:52419 Closing
```

### 4. edit.php

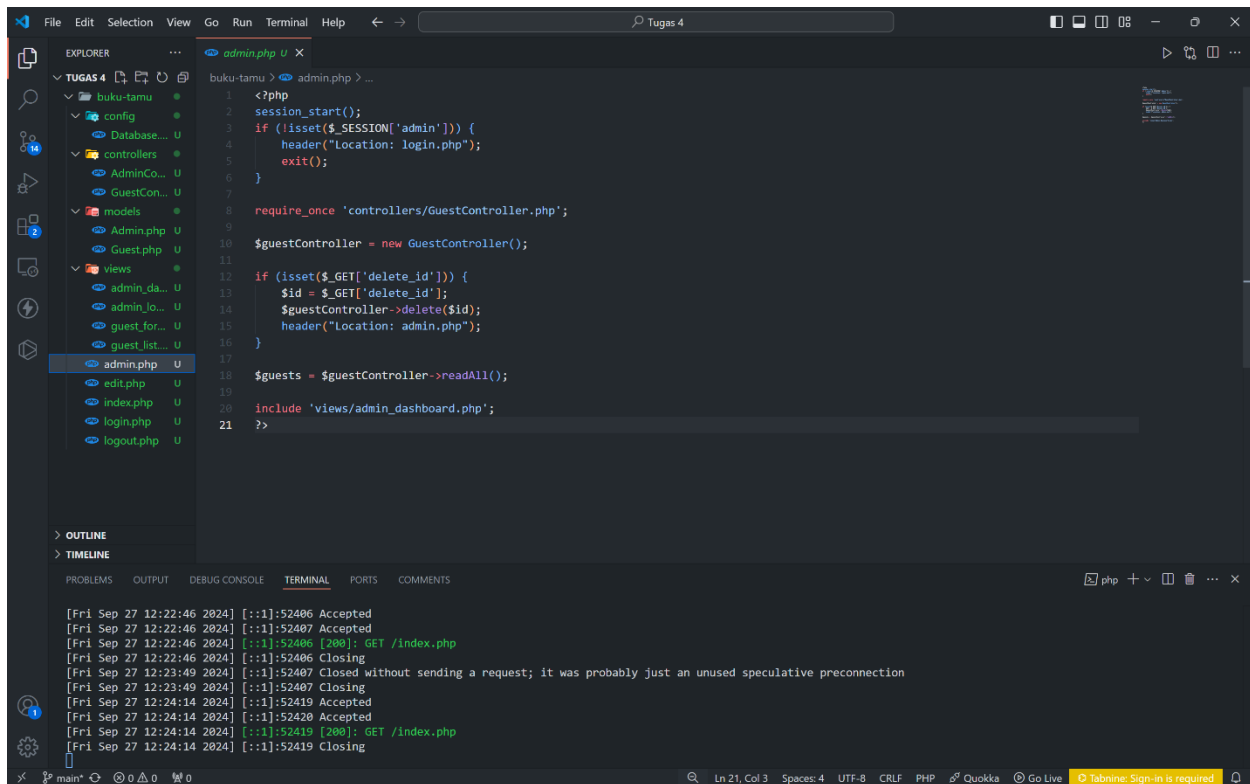


```
1 <?php
2 session_start();
3 if (!isset($_SESSION['admin'])) {
4     header("Location: login.php");
5     exit();
6 }
7
8 require_once 'controllers/GuestController.php';
9
10 $guestController = new GuestController();
11
12 if (isset($_GET['id'])) {
13     $id = $_GET['id'];
14     $stmt = $guestController->readAll();
15     while ($row = $stmt->fetch(PDO::FETCH_ASSOC)) {
16         if ($row['id'] == $id) {
17             $name = $row['name'];
18             $comment = $row['comment'];
19             break;
20         }
21     }
22 }
23
24 if ($_SERVER['REQUEST_METHOD'] == 'POST') {
25     $id = $_POST['id'];
26     $name = $_POST['name'];
27     $comment = $_POST['comment'];
28     $guestController->update($id, $name, $comment);
29     header("Location: admin.php");
30 }
```

Terminal output:

```
[Fri Sep 27 12:22:46 2024] [::1]:52406 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52407 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52406 [200]: GET /index.php
[Fri Sep 27 12:22:46 2024] [::1]:52406 Closing
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closed without sending a request; it was probably just an unused speculative preconnection
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closing
[Fri Sep 27 12:24:14 2024] [::1]:52419 Accepted
[Fri Sep 27 12:24:14 2024] [::1]:52420 Accepted
[Fri Sep 27 12:24:14 2024] [::1]:52419 [200]: GET /index.php
[Fri Sep 27 12:24:14 2024] [::1]:52419 Closing
```

## 5. admin.php



The screenshot shows the VS Code editor with the file explorer on the left displaying the project structure. The file `admin.php` is selected. The code in the editor is as follows:

```
<?php
session_start();
if (!isset($_SESSION['admin'])) {
    header("Location: login.php");
    exit();
}

require_once 'controllers/GuestController.php';

$guestController = new GuestController();

if (isset($_GET['delete_id'])) {
    $id = $_GET['delete_id'];
    $guestController->delete($id);
    header("Location: admin.php");
}

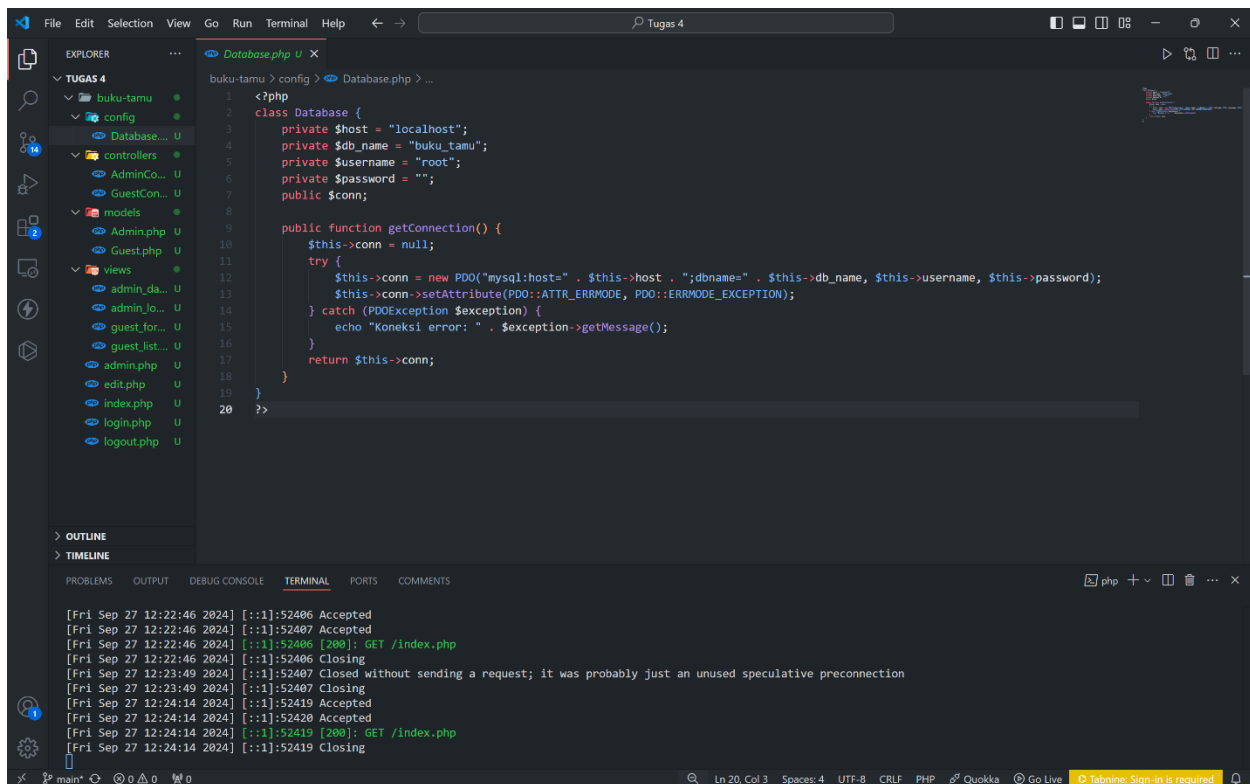
$guests = $guestController->readAll();

include 'views/admin_dashboard.php';
?>
```

The terminal at the bottom shows the following output:

```
[Fri Sep 27 12:22:46 2024] [::1]:52406 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52407 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52406 [200]: GET /index.php
[Fri Sep 27 12:22:46 2024] [::1]:52406 Closing
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closed without sending a request; it was probably just an unused speculative preconnection
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closing
[Fri Sep 27 12:24:14 2024] [::1]:52419 Accepted
[Fri Sep 27 12:24:14 2024] [::1]:52420 Accepted
[Fri Sep 27 12:24:14 2024] [::1]:52419 [200]: GET /index.php
[Fri Sep 27 12:24:14 2024] [::1]:52419 Closing
```

## 6. Database.php



The screenshot shows the VS Code editor with the file explorer on the left displaying the project structure. The file `Database.php` is selected. The code in the editor is as follows:

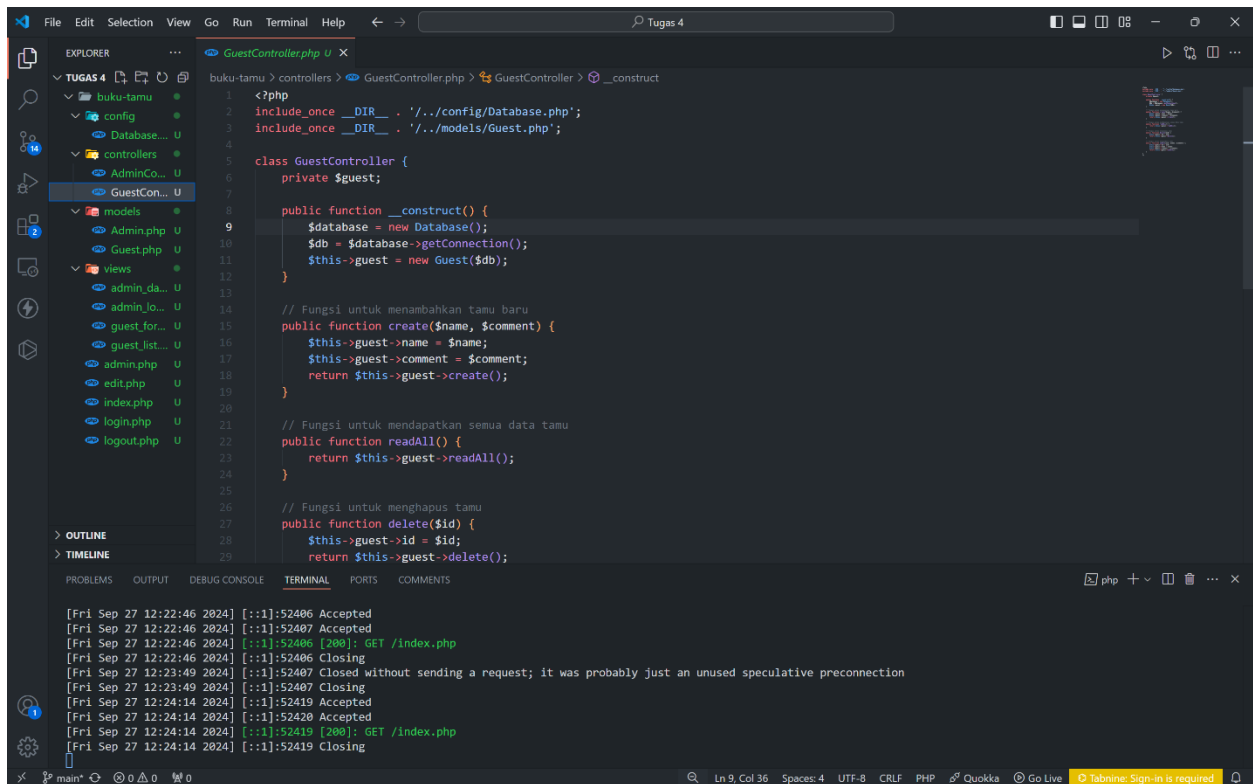
```
<?php
class Database {
    private $host = "localhost";
    private $db_name = "buku_tamu";
    private $username = "root";
    private $password = "";
    public $conn;

    public function getConnection() {
        $this->conn = null;
        try {
            $this->conn = new PDO("mysql:host=" . $this->host . ";dbname=" . $this->db_name, $this->username, $this->password);
            $this->conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
        } catch (PDOException $exception) {
            echo "Koneksi error: " . $exception->getMessage();
        }
        return $this->conn;
    }
}
```

The terminal at the bottom shows the following output:

```
[Fri Sep 27 12:22:46 2024] [::1]:52406 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52407 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52406 [200]: GET /index.php
[Fri Sep 27 12:22:46 2024] [::1]:52406 Closing
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closed without sending a request; it was probably just an unused speculative preconnection
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closing
[Fri Sep 27 12:24:14 2024] [::1]:52419 Accepted
[Fri Sep 27 12:24:14 2024] [::1]:52420 Accepted
[Fri Sep 27 12:24:14 2024] [::1]:52419 [200]: GET /index.php
[Fri Sep 27 12:24:14 2024] [::1]:52419 Closing
```

## 7. GuestController.php



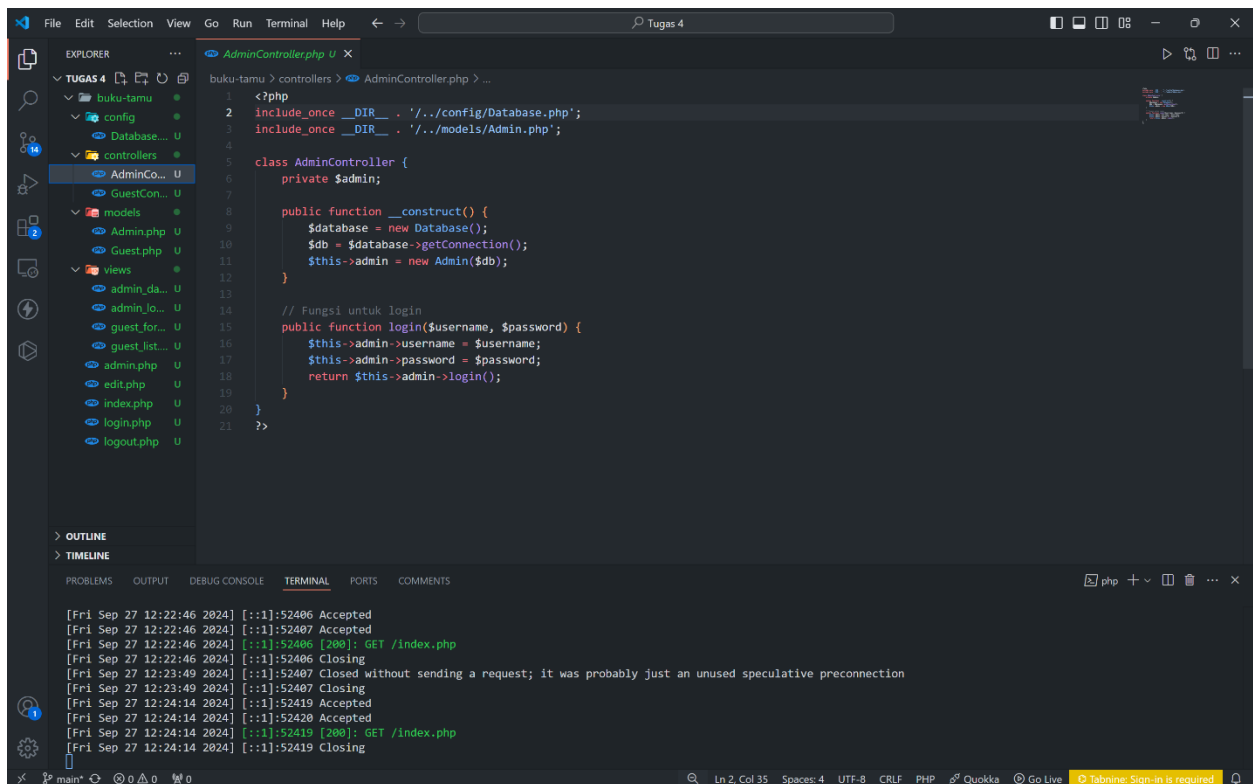
The screenshot shows the VS Code editor with the file `GuestController.php` open. The Explorer sidebar on the left shows the project structure for 'TUGAS 4', including folders for `buku-tamu`, `config`, `Database...`, `controllers`, `models`, and `views`. The `controllers` folder is expanded, showing `AdminCo...` and `GuestCon...`. The `GuestController.php` file is selected, and its code is displayed in the editor. The code includes database connections and methods for creating, reading, and deleting guest records. The Terminal at the bottom shows a series of HTTP requests and responses, including GET requests to `/index.php` and status messages like 'Accepted' and 'Closing'.

```
<?php
1 include_once __DIR__ . '/../config/Database.php';
2 include_once __DIR__ . '/../models/Guest.php';
3
4
5 class GuestController {
6     private $guest;
7
8     public function __construct() {
9         $database = new Database();
10        $db = $database->getConnection();
11        $this->guest = new Guest($db);
12    }
13
14    // Fungsi untuk menambahkan tamu baru
15    public function create($name, $comment) {
16        $this->guest->name = $name;
17        $this->guest->comment = $comment;
18        return $this->guest->create();
19    }
20
21    // Fungsi untuk mendapatkan semua data tamu
22    public function readAll() {
23        return $this->guest->readAll();
24    }
25
26    // Fungsi untuk menghapus tamu
27    public function delete($id) {
28        $this->guest->id = $id;
29        return $this->guest->delete();
30    }
31}
```

Terminal Output:

```
[Fri Sep 27 12:22:46 2024] [::1]:52406 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52407 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52406 [200]: GET /index.php
[Fri Sep 27 12:22:46 2024] [::1]:52406 Closing
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closed without sending a request; it was probably just an unused speculative preconnection
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closing
[Fri Sep 27 12:24:14 2024] [::1]:52419 Accepted
[Fri Sep 27 12:24:14 2024] [::1]:52420 Accepted
[Fri Sep 27 12:24:14 2024] [::1]:52419 [200]: GET /index.php
[Fri Sep 27 12:24:14 2024] [::1]:52419 Closing
```

## 8. AdminController.php



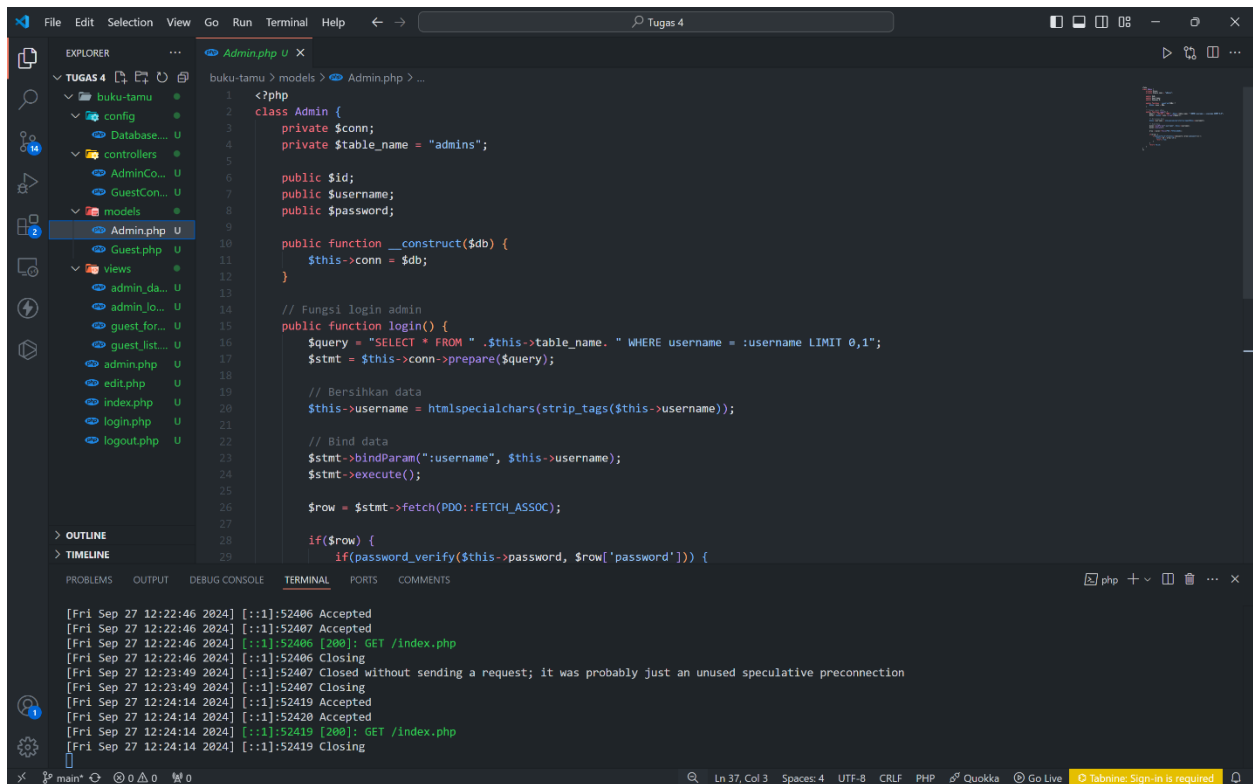
The screenshot shows the VS Code editor with the file `AdminController.php` open. The Explorer sidebar on the left shows the project structure for 'TUGAS 4', including folders for `buku-tamu`, `config`, `Database...`, `controllers`, `models`, and `views`. The `controllers` folder is expanded, showing `AdminCo...` and `GuestCon...`. The `AdminController.php` file is selected, and its code is displayed in the editor. The code includes database connections and a method for logging in an admin user. The Terminal at the bottom shows a series of HTTP requests and responses, including GET requests to `/index.php` and status messages like 'Accepted' and 'Closing'.

```
<?php
1 include_once __DIR__ . '/../config/Database.php';
2 include_once __DIR__ . '/../models/Admin.php';
3
4
5 class AdminController {
6     private $admin;
7
8     public function __construct() {
9         $database = new Database();
10        $db = $database->getConnection();
11        $this->admin = new Admin($db);
12    }
13
14    // Fungsi untuk login
15    public function login($username, $password) {
16        $this->admin->username = $username;
17        $this->admin->password = $password;
18        return $this->admin->login();
19    }
20 }
21 ?>
```

Terminal Output:

```
[Fri Sep 27 12:22:46 2024] [::1]:52406 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52407 Accepted
[Fri Sep 27 12:22:46 2024] [::1]:52406 [200]: GET /index.php
[Fri Sep 27 12:22:46 2024] [::1]:52406 Closing
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closed without sending a request; it was probably just an unused speculative preconnection
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closing
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[Fri Sep 27 12:24:14 2024] [::1]:52420 Accepted
[Fri Sep 27 12:24:14 2024] [::1]:52419 [200]: GET /index.php
[Fri Sep 27 12:24:14 2024] [::1]:52419 Closing
```

## 9. Admin.php



The screenshot shows the VS Code editor with the `Admin.php` file open. The Explorer panel on the left shows the project structure for `TUGAS 4`, including `buku-tamu`, `config`, `Database...`, `controllers`, `AdminCo...`, `GuestCon...`, `models`, `Admin.php`, `Guest.php`, `views`, `admin_da...`, `admin_lo...`, `guest_for...`, `guest_list...`, `admin.php`, `edit.php`, `index.php`, `login.php`, and `logout.php`. The `Admin.php` file is selected, and its code is displayed in the main editor. The code defines a `Admin` class with a database connection, a table name, and methods for login and data retrieval. The terminal at the bottom shows the output of the application, including accepted connections, GET requests to `/index.php`, and closing connections.

```
<?php
class Admin {
    private $conn;
    private $table_name = "admins";

    public $id;
    public $username;
    public $password;

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

    // Fungsi login admin
    public function login() {
        $query = "SELECT * FROM " . $this->table_name . " WHERE username = :username LIMIT 0,1";
        $stmt = $this->conn->prepare($query);

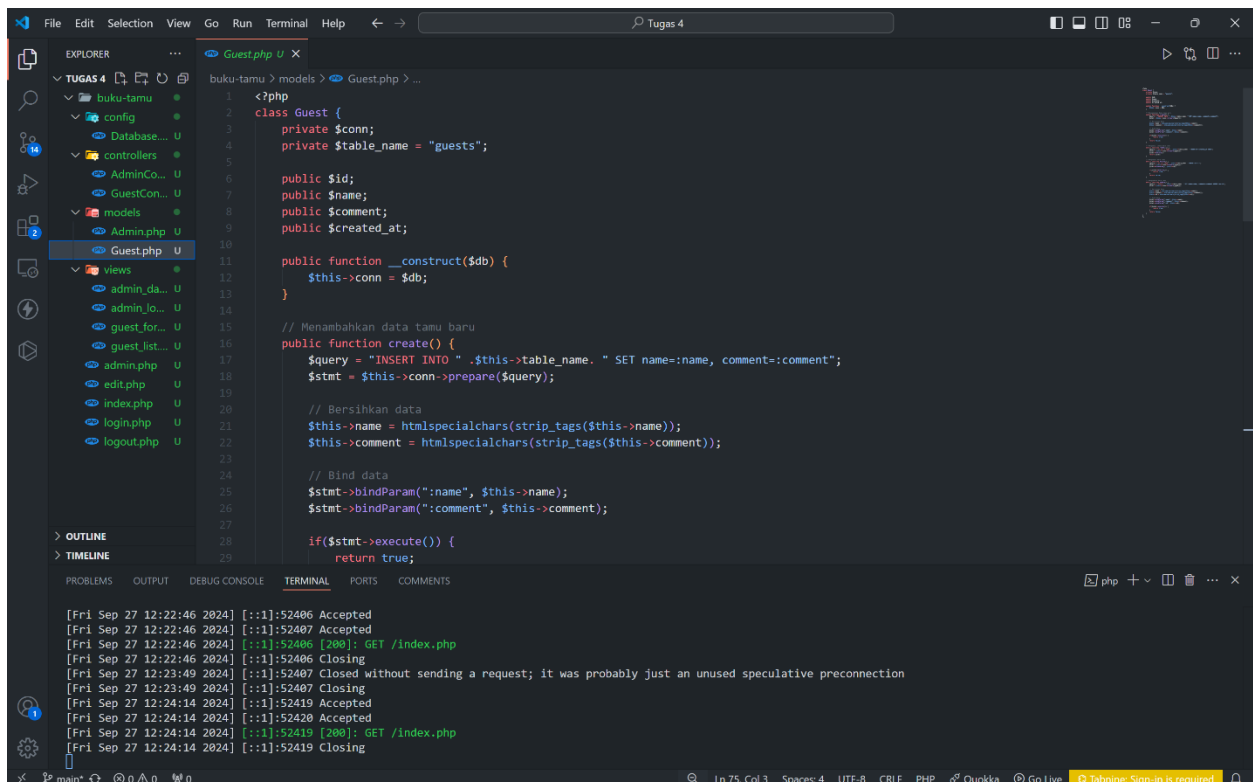
        // Bersihkan data
        $this->username = htmlspecialchars(strip_tags($this->username));

        // Bind data
        $stmt->bindParam(":username", $this->username);
        $stmt->execute();

        $row = $stmt->fetch(PDO::FETCH_ASSOC);

        if($row) {
            if(password_verify($this->password, $row['password'])) {
```

## 10. Guest.php



The screenshot shows the VS Code editor with the `Guest.php` file open. The Explorer panel on the left shows the project structure for `TUGAS 4`, including `buku-tamu`, `config`, `Database...`, `controllers`, `AdminCo...`, `GuestCon...`, `models`, `Admin.php`, `Guest.php`, `views`, `admin_da...`, `admin_lo...`, `guest_for...`, `guest_list...`, `admin.php`, `edit.php`, `index.php`, `login.php`, and `logout.php`. The `Guest.php` file is selected, and its code is displayed in the main editor. The code defines a `Guest` class with a database connection, a table name, and methods for creating a new guest and retrieving data. The terminal at the bottom shows the output of the application, including accepted connections, GET requests to `/index.php`, and closing connections.

```
<?php
class Guest {
    private $conn;
    private $table_name = "guests";

    public $id;
    public $name;
    public $comment;
    public $created_at;

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

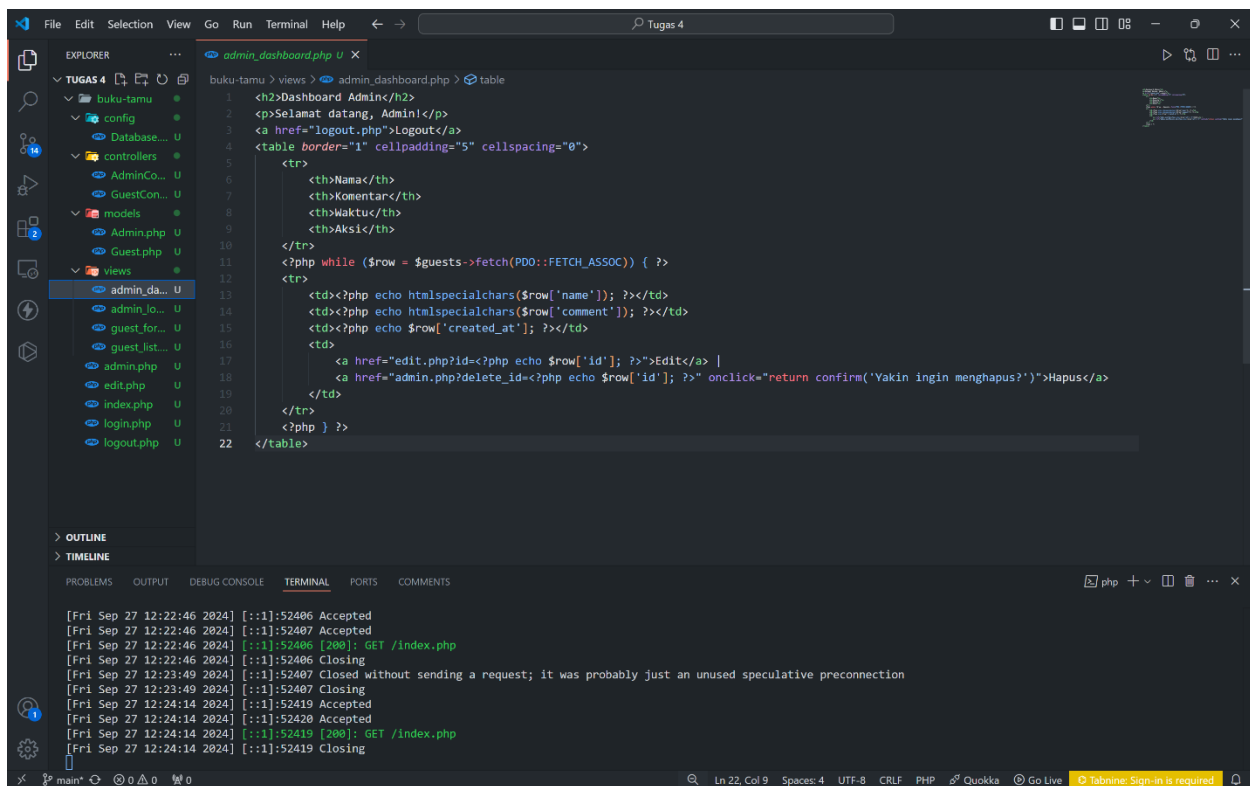
    // Menambahkan data tamu baru
    public function create() {
        $query = "INSERT INTO " . $this->table_name . " SET name=:name, comment=:comment";
        $stmt = $this->conn->prepare($query);

        // Bersihkan data
        $this->name = htmlspecialchars(strip_tags($this->name));
        $this->comment = htmlspecialchars(strip_tags($this->comment));

        // Bind data
        $stmt->bindParam(":name", $this->name);
        $stmt->bindParam(":comment", $this->comment);

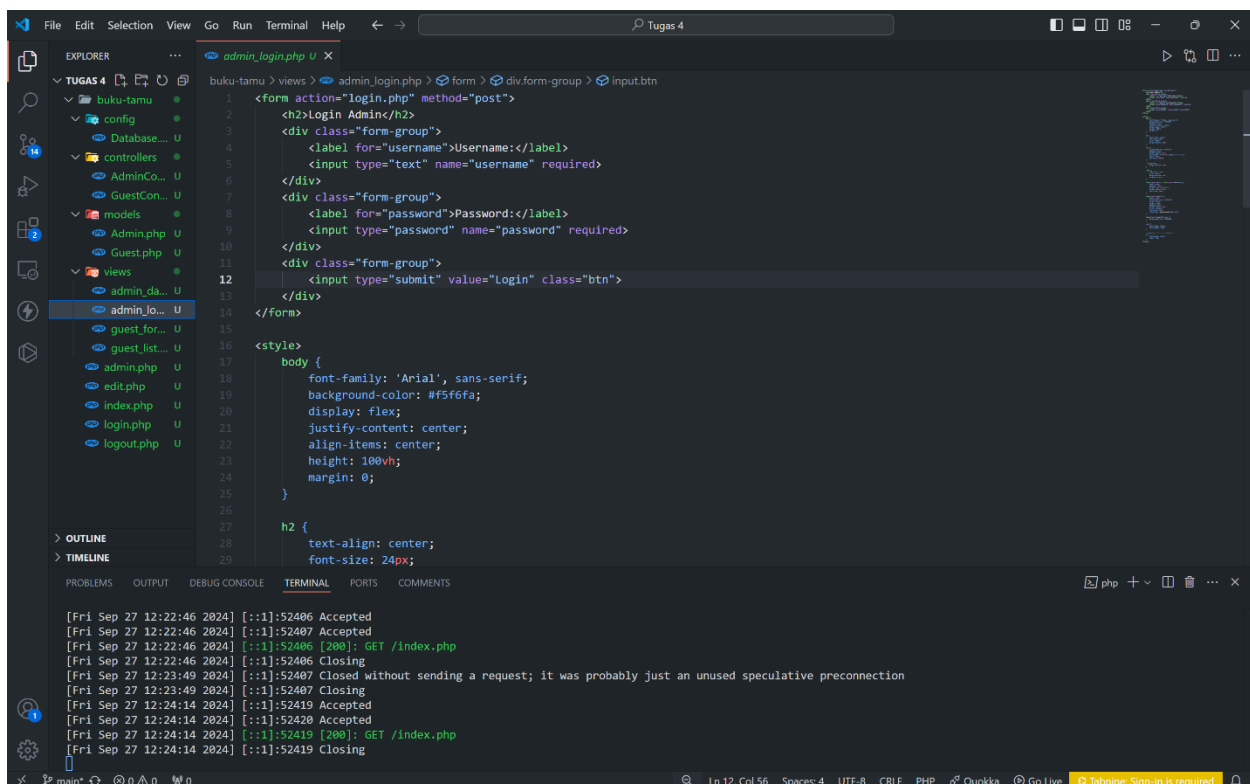
        if($stmt->execute()) {
            return true;
        }
    }
}
```

## 11. admin\_dashboard.php



```
1 <h2>Dashboard Admin</h2>
2 <p>Selamat datang, Admin!</p>
3 <a href="logout.php">Logout</a>
4 <table border="1" cellpadding="5" cellspacing="0">
5   <tr>
6     <th>Nama</th>
7     <th>Komentar</th>
8     <th>Waktu</th>
9     <th>Aksi</th>
10  </tr>
11  <?php while ($row = $guests->fetch(PDO::FETCH_ASSOC)) { ?>
12  <tr>
13    <td><?php echo htmlspecialchars($row['name']); ?></td>
14    <td><?php echo htmlspecialchars($row['comment']); ?></td>
15    <td><?php echo $row['created_at']; ?></td>
16    <td>
17      <a href="edit.php?id=<?php echo $row['id']; ?>">Edit</a> |
18      <a href="admin.php?delete_id=<?php echo $row['id']; ?>" onclick="return confirm('Yakin ingin menghapus?')">Hapus</a>
19    </td>
20  </tr>
21  <?php } ?>
22 </table>
```

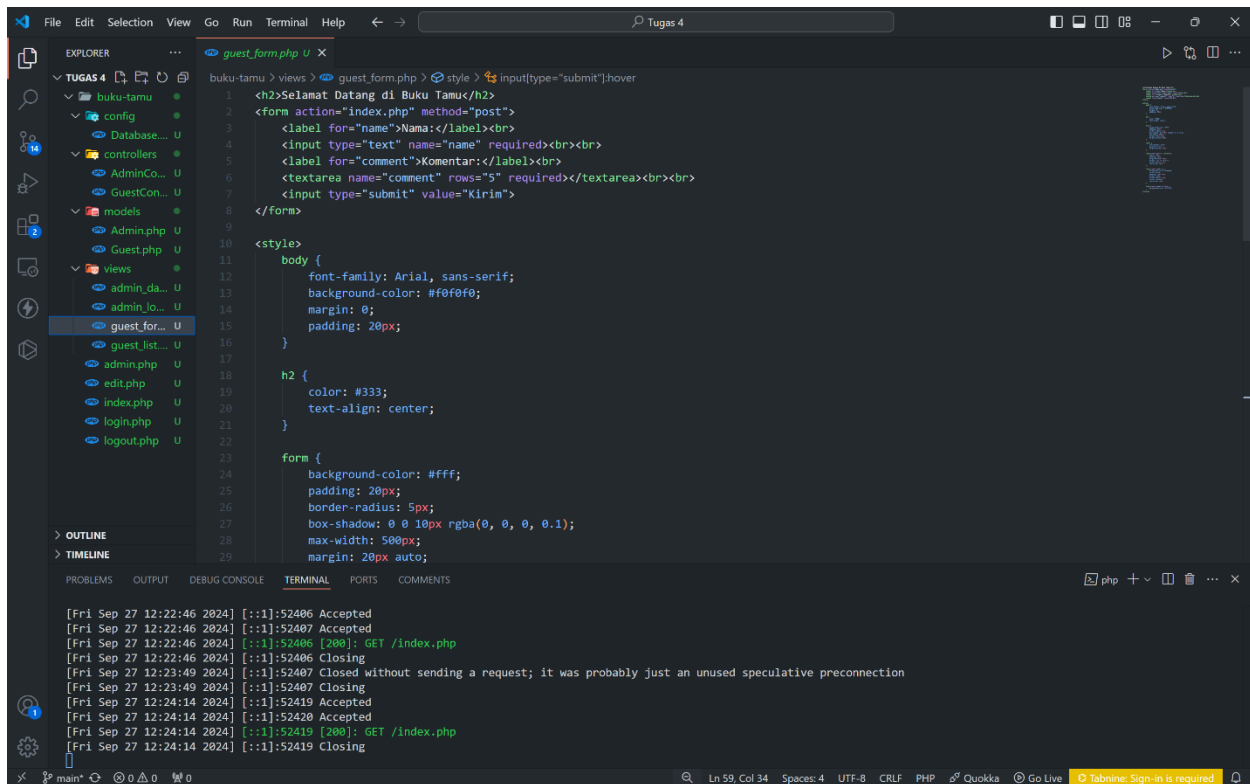
## 12. admin\_login.php



```
1 <form action="login.php" method="post">
2   <h2>Login Admin</h2>
3   <div class="form-group">
4     <label for="username">Username:</label>
5     <input type="text" name="username" required>
6   </div>
7   <div class="form-group">
8     <label for="password">Password:</label>
9     <input type="password" name="password" required>
10  </div>
11  <div class="form-group">
12    <input type="submit" value="Login" class="btn">
13  </div>
14 </form>
15
16 <style>
17   body {
18     font-family: 'Arial', sans-serif;
19     background-color: #f5f6fa;
20     display: flex;
21     justify-content: center;
22     align-items: center;
23     height: 100vh;
24     margin: 0;
25   }
26
27   h2 {
28     text-align: center;
29     font-size: 24px;
```



## 13. guest\_form.php

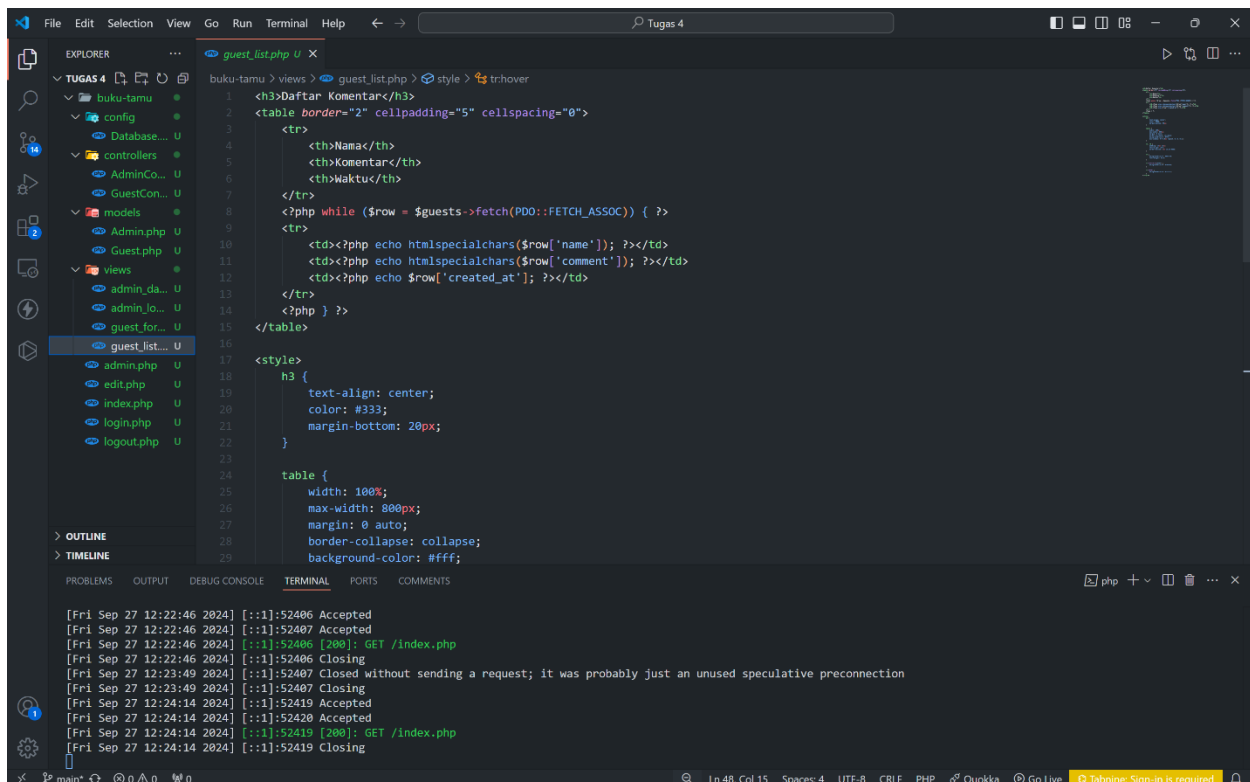


```
1 <h2>Selamat Datang di Buku Tamu</h2>
2 <form action="index.php" method="post">
3   <label for="name">Nama:</label><br>
4   <input type="text" name="name" required><br><br>
5   <label for="comment">Komentar:</label><br>
6   <textarea name="comment" rows="5" required></textarea><br><br>
7   <input type="submit" value="Kirim">
8 </form>
9
10
11 <style>
12   body {
13     font-family: Arial, sans-serif;
14     background-color: #f0f0f0;
15     margin: 0;
16     padding: 20px;
17   }
18
19   h2 {
20     color: #333;
21     text-align: center;
22   }
23
24   form {
25     background-color: #fff;
26     padding: 20px;
27     border-radius: 5px;
28     box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
29     max-width: 500px;
30     margin: 20px auto;
31   }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

[Fri Sep 27 12:22:46 2024] [::1]:52406 Accepted  
[Fri Sep 27 12:22:46 2024] [::1]:52407 Accepted  
[Fri Sep 27 12:22:46 2024] [::1]:52406 [200]: GET /index.php  
[Fri Sep 27 12:22:46 2024] [::1]:52406 Closing  
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closed without sending a request; it was probably just an unused speculative preconnection  
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closing  
[Fri Sep 27 12:24:14 2024] [::1]:52419 Accepted  
[Fri Sep 27 12:24:14 2024] [::1]:52420 Accepted  
[Fri Sep 27 12:24:14 2024] [::1]:52419 [200]: GET /index.php  
[Fri Sep 27 12:24:14 2024] [::1]:52419 Closing

## 14. guest\_list.php



```
1 <h3>Daftar Komentar</h3>
2 <table border="2" cellpadding="5" cellspacing="0">
3   <tr>
4     <th>Nama</th>
5     <th>Komentar</th>
6     <th>Waktu</th>
7   </tr>
8   <tr>
9     <td><?php echo htmlspecialchars($row['name']); ?></td>
10    <td><?php echo htmlspecialchars($row['comment']); ?></td>
11    <td><?php echo $row['created_at']; ?></td>
12  </tr>
13 </table>
14
15 <style>
16   h3 {
17     text-align: center;
18     color: #333;
19     margin-bottom: 20px;
20   }
21
22   table {
23     width: 100%;
24     max-width: 800px;
25     margin: 0 auto;
26     border-collapse: collapse;
27     background-color: #fff;
28   }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

[Fri Sep 27 12:22:46 2024] [::1]:52406 Accepted  
[Fri Sep 27 12:22:46 2024] [::1]:52407 Accepted  
[Fri Sep 27 12:22:46 2024] [::1]:52406 [200]: GET /index.php  
[Fri Sep 27 12:22:46 2024] [::1]:52406 Closing  
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closed without sending a request; it was probably just an unused speculative preconnection  
[Fri Sep 27 12:23:49 2024] [::1]:52407 Closing  
[Fri Sep 27 12:24:14 2024] [::1]:52419 Accepted  
[Fri Sep 27 12:24:14 2024] [::1]:52420 Accepted  
[Fri Sep 27 12:24:14 2024] [::1]:52419 [200]: GET /index.php  
[Fri Sep 27 12:24:14 2024] [::1]:52419 Closing

# Screenshoot Hasil Tampilan

