

# **PRAKTIKUM**

# **PEMROGRAMAN BERBASIS WEB**

Untuk memenuhi tugas praktikum pemrograman berbasis web



Oleh:

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Dosen:

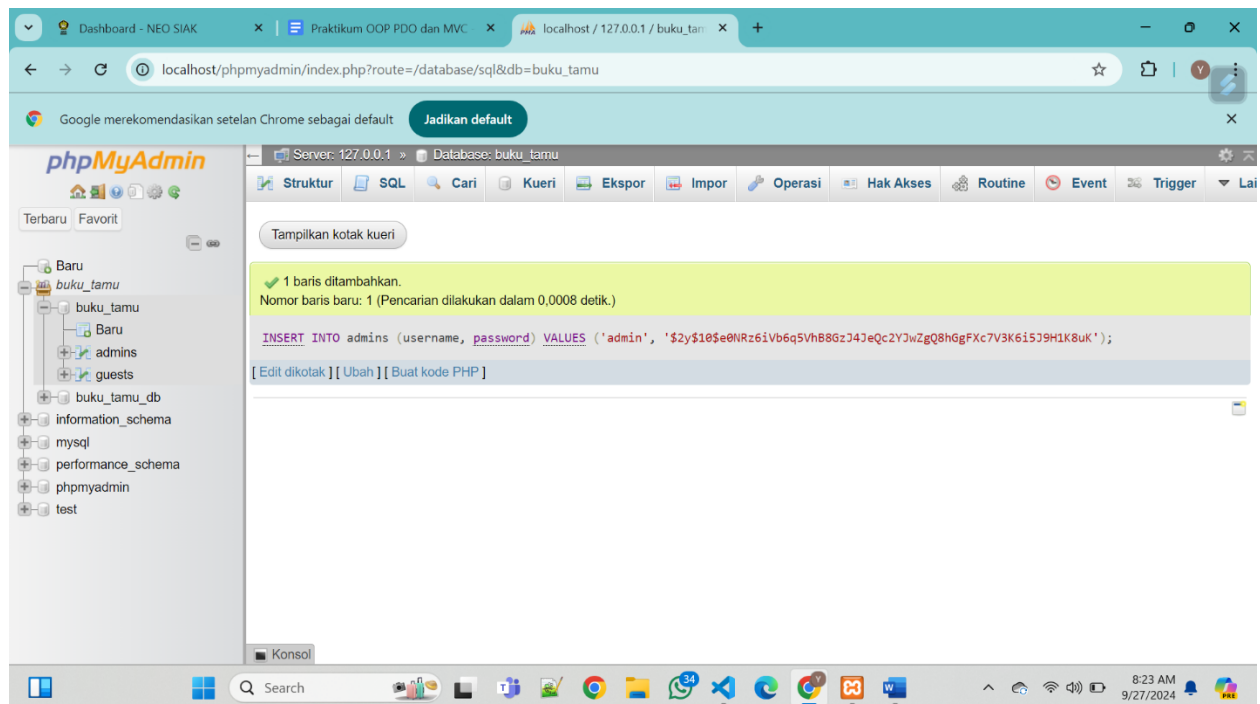
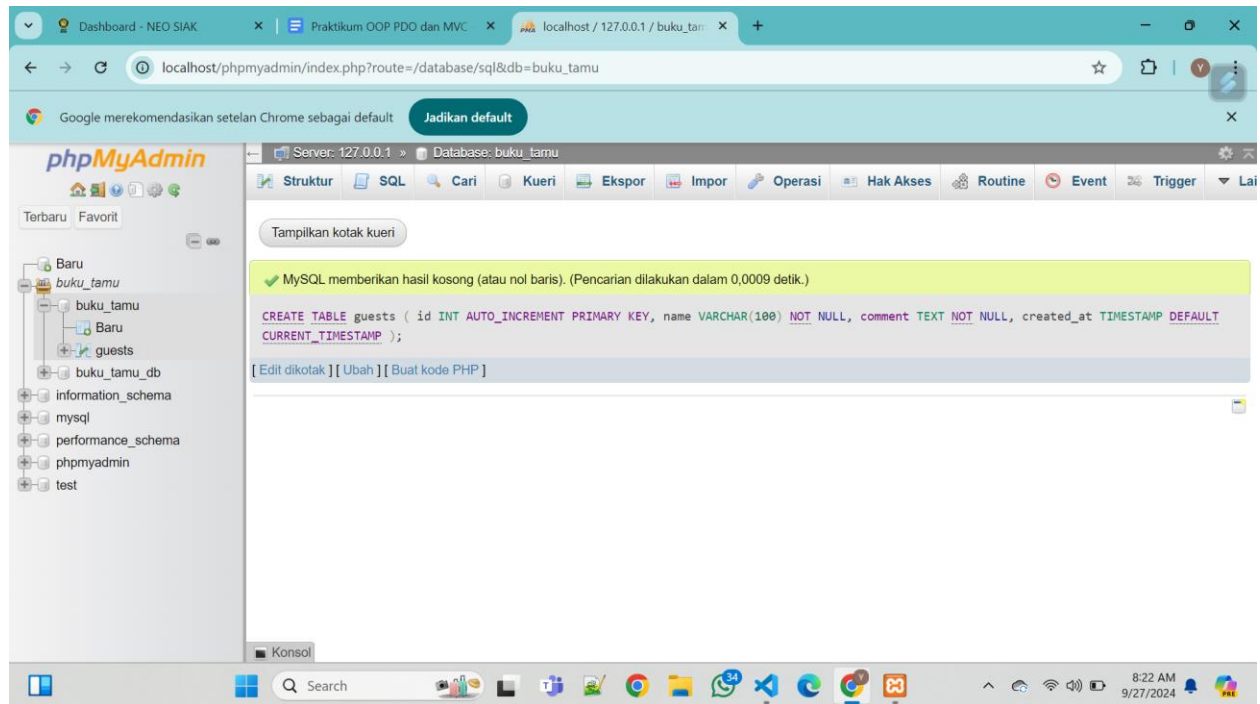
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## 1. Membuat database di MySQL



## 2. Struktur Direktori Proyek

### a. Index.php

```
1 <?php
2 require_once 'controllers/GuestController.php';
3
4 $guestController = new GuestController();
5
6 if ($_SERVER['REQUEST_METHOD'] == 'POST') {
7     $name = $_POST['name'];
8     $comment = $_POST['comment'];
9     $guestController->create(name: $name, comment: $comment);
10    header(header: "Location: index.php");
11 }
12
13 $guests = $guestController->readAll();
14
15 include 'views/guest_from.php';
16 include 'views/guest_list.php';
17 ?>
```

## b. Admin.php

```
1 <?php
2 session_start();
3 if (!isset($_SESSION['admin'])) {
4     header(header: "Location: login.php");
5     exit();
6 }
7
8 require_once 'controllers/GuestController.php';
9
10 $guestController = new GuestController();
11
12 if (isset($_GET['delete_id'])) {
13     $id = $_GET['delete_id'];
14     $guestController->delete(id: $id);
15     header(header: "Location: admin.php");
16 }
17
18 $guests = $guestController->readAll();
19
20 include 'views/admin_dashboard.php';
21 ?>
```

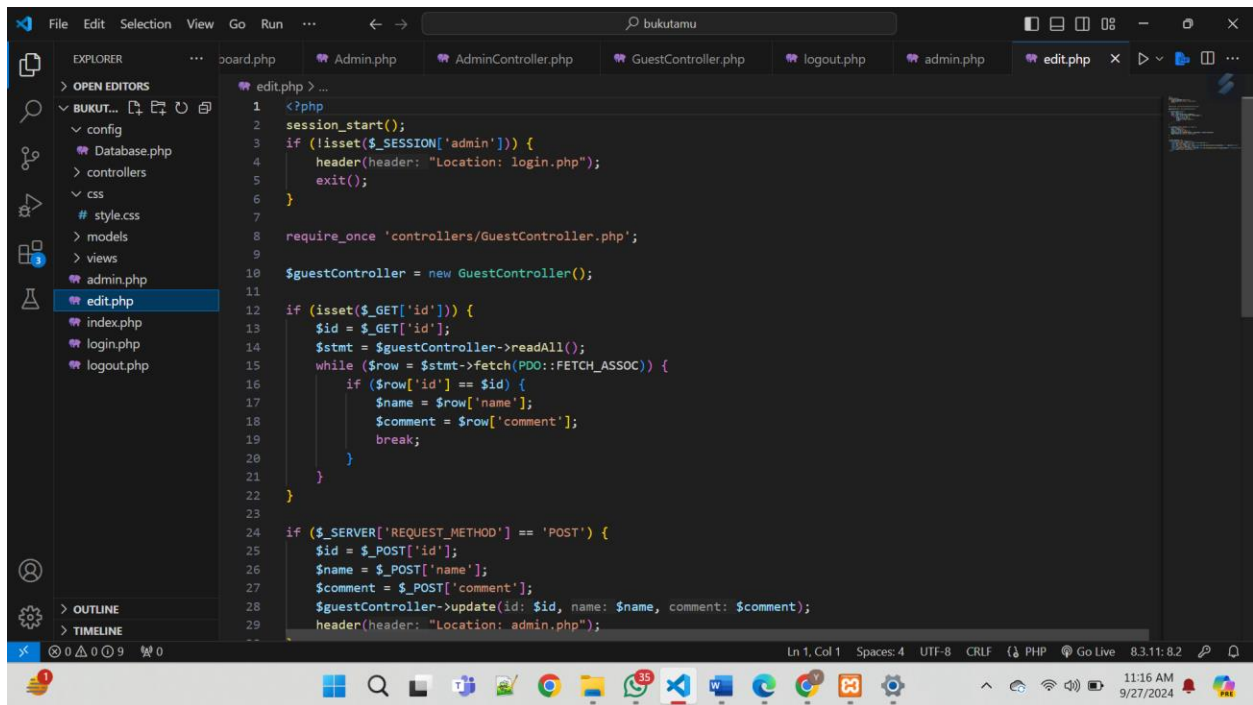
## c. Login

```
1 <?php
2 session_start();
3 require_once 'controllers/AdminController.php';
4
5 $adminController = new AdminController();
6
7 if ($_SERVER['REQUEST_METHOD'] == 'POST') {
8     $username = $_POST['username'];
9     $password = $_POST['password'];
10
11     if ($adminController->login(username: $username, password: $password)) {
12         $_SESSION['admin'] = $username;
13         header(header: "Location: admin.php");
14     } else {
15         $error = "Username atau password salah!";
16     }
17 }
18
19 include 'views/admin_login.php';
20
21 if (isset($error)) {
22     echo "<p style='color:red;'>$error</p>";
23 }
24
25
```

#### d. Logout

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

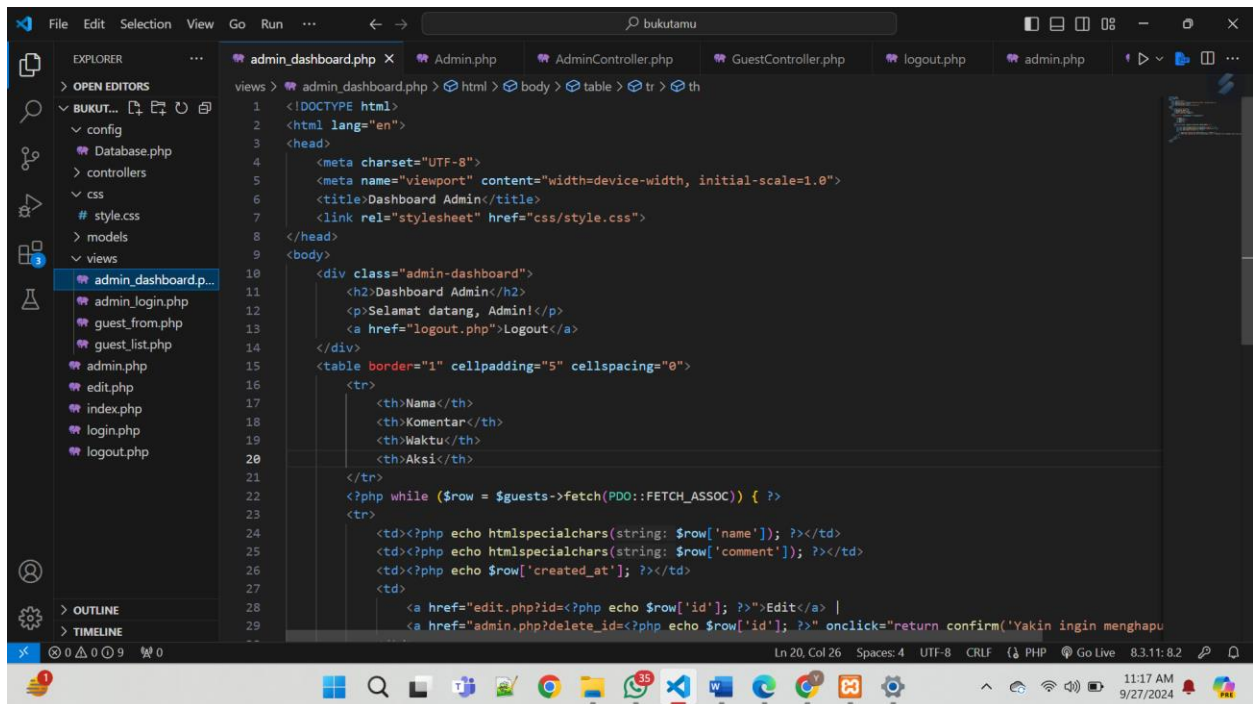
#### e. Edit.php



The screenshot shows the Visual Studio Code editor with the file `edit.php` open. The Explorer sidebar on the left shows a project structure with folders `config`, `controllers`, `css`, `models`, and `views`. The `edit.php` file is selected under the `views` folder. The main editor area displays the PHP code for `edit.php`, which includes session management, database connection, and logic for updating a record in the database. The status bar at the bottom indicates the current line and column (Ln 1, Col 1) and the file encoding (UTF-8).

```
1 <?php
2 session_start();
3 if (!isset($_SESSION['admin'])) {
4     header(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(header: "Location: admin.php");
30 }
```

### 3. Pada Folder Views



The screenshot shows the Visual Studio Code editor with the file `admin_dashboard.php` open. The Explorer sidebar on the left shows the project structure, and the `admin_dashboard.php` file is selected under the `views` folder. The main editor area displays the HTML code for `admin_dashboard.php`, which includes a header with meta tags, a body with a dashboard container, and a table displaying a list of guests. The status bar at the bottom indicates the current line and column (Ln 20, Col 26) and the file encoding (UTF-8).

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Dashboard Admin</title>
7     <link rel="stylesheet" href="css/style.css">
8 </head>
9 <body>
10     <div class="admin-dashboard">
11         <h2>Dashboard Admin</h2>
12         <p>Selamat datang, Admin!</p>
13         <a href="logout.php">Logout</a>
14     </div>
15     <table border="1" cellpadding="5" cellspacing="0">
16         <tr>
17             <th>Nama</th>
18             <th>Komentar</th>
19             <th>Waktu</th>
20             <th>Aksi</th>
21         </tr>
22         <?php while ($row = $guests->fetch(PDO::FETCH_ASSOC)) { ?>
23             <tr>
24                 <td><?php echo htmlspecialchars(string: $row['name']); ?></td>
25                 <td><?php echo htmlspecialchars(string: $row['comment']); ?></td>
26                 <td><?php echo $row['created_at']; ?></td>
27                 <td>
28                     <a href="edit.php?id=<?php echo $row['id']; ?>">Edit</a> |
29                     <a href="admin.php?delete_id=<?php echo $row['id']; ?>" onclick="return confirm('Yakin ingin menghapus
```

File Edit Selection View Go Run ... bukutamu

EXPLORER

- OPEN EDITORS
- BUKUTAMU
  - config
  - Database.php
  - controllers
  - css
    - style.css
  - models
  - views
    - admin\_dashboard.p...
    - admin\_login.php
    - guest\_from.php
    - guest\_list.php
    - admin.php
    - edit.php
    - index.php
    - login.php
    - logout.php
- OUTLINE
- TIMELINE

views > admin\_login.php > html > body

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Login Admin</title>
7   <link rel="stylesheet" href="css/style.css">
8 </head>
9 <body>
10  <h2>Login Admin</h2>
11  <form action="login.php" method="post">
12    <label for="username">Username:</label><br>
13    <input type="text" name="username" required><br>
14    <label for="password">Password:</label><br>
15    <input type="password" name="password" required><br>
16    <input type="submit" value="Login">
17  </form>
18  <?php if (isset($error)) { ?>
19    <div class="message error"><?php echo $error; ?></div>
20  <?php ?>
21 </body>
22 </html>
23
```

Ln 21, Col 8 Spaces: 4 UTF-8 CRLF PHP Go Live 8.3.11: 8.2

File Edit Selection View Go Run ... bukutamu

EXPLORER

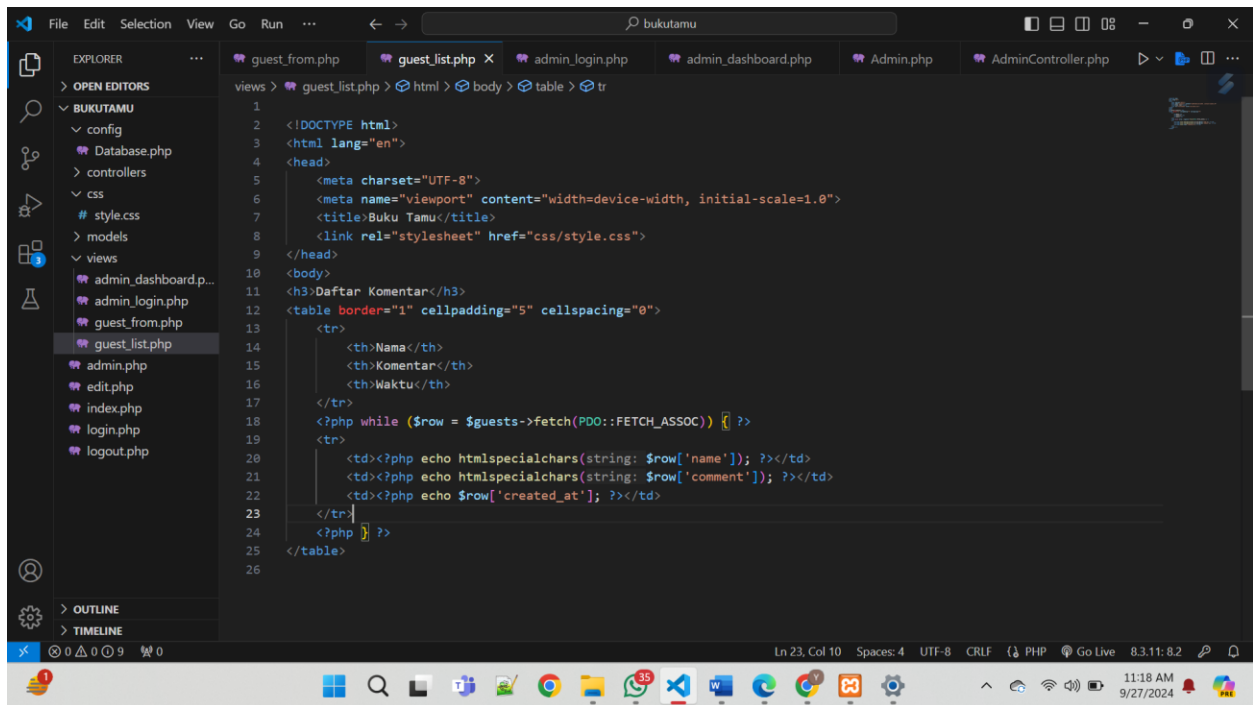
- OPEN EDITORS
- BUKUTAMU
  - config
  - Database.php
  - controllers
  - css
    - style.css
  - models
  - views
    - admin\_dashboard.p...
    - admin\_login.php
    - guest\_from.php
    - guest\_list.php
    - admin.php
    - edit.php
    - index.php
    - login.php
    - logout.php
- OUTLINE
- TIMELINE

views > guest\_from.php > ...

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Buku Tamu</title>
7   <link rel="stylesheet" href="css/style.css">
8 </head>
9 <body>
10  <h2>Selamat Datang di Buku Tamu</h2>
11  <form action="index.php" method="post">
12    <label for="name">Nama:</label><br>
13    <input type="text" name="name" required><br>
14    <label for="comment">Komentar:</label><br>
15    <textarea name="comment" rows="5" required></textarea><br>
16    <input type="submit" value="Kirim">
17  </form>
18 </body>
19 </html>
20
```

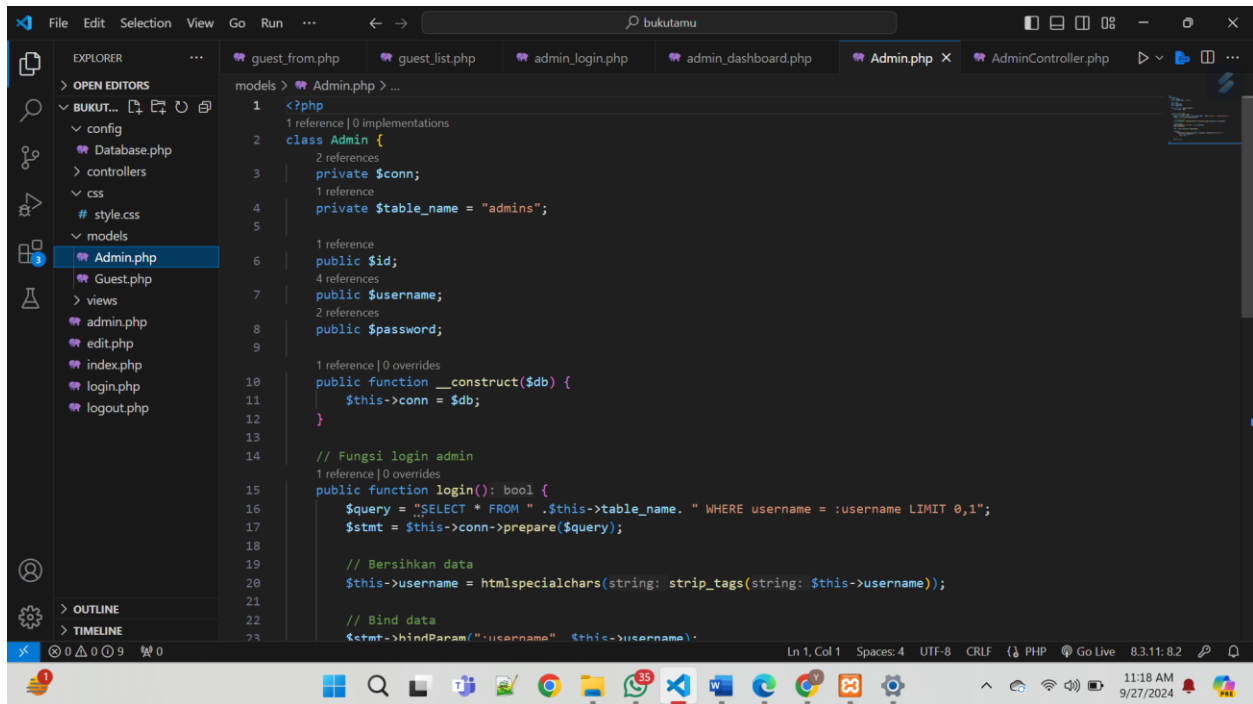
Ln 20, Col 1 Spaces: 4 UTF-8 CRLF PHP Go Live 8.3.11: 8.2



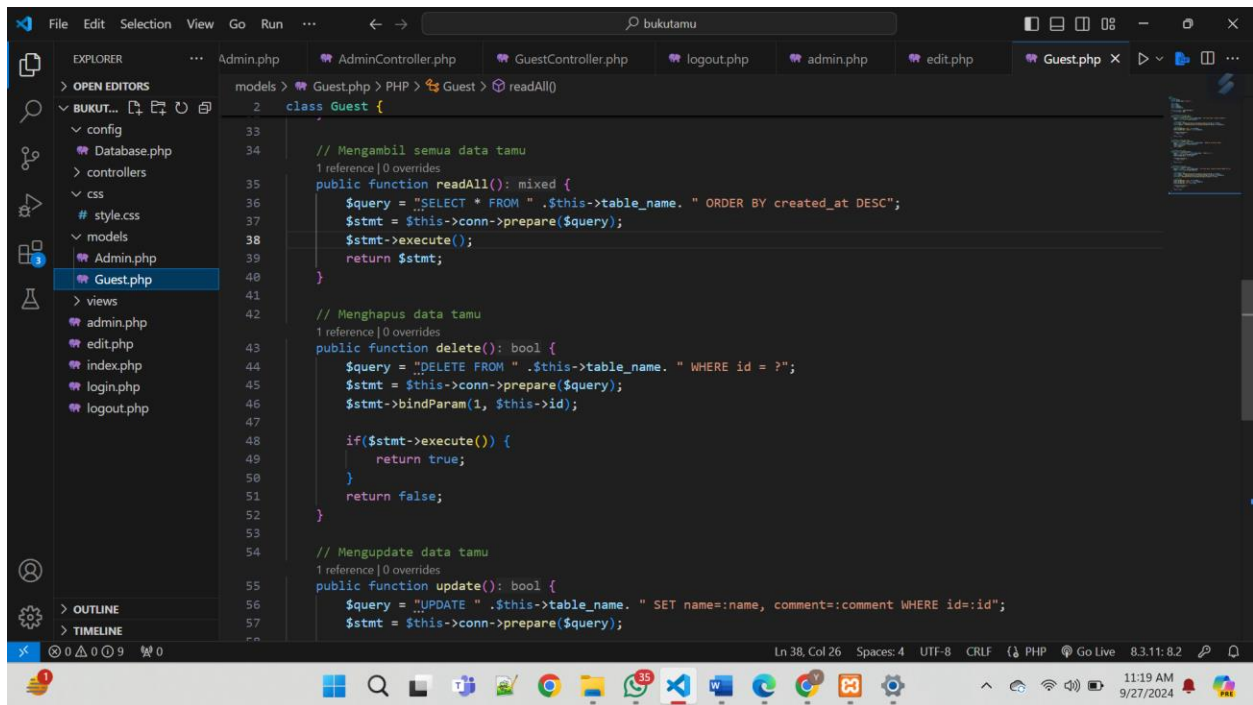


```
1 <?php
2 <!DOCTYPE html>
3 <html lang="en">
4 <head>
5     <meta charset="UTF-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7     <title>Buku Tamu</title>
8     <link rel="stylesheet" href="css/style.css">
9 </head>
10 <body>
11 <h3>Daftar Komentar</h3>
12 <table border="1" cellpadding="5" cellspacing="0">
13     <tr>
14         <th>Nama</th>
15         <th>Komentar</th>
16         <th>Waktu</th>
17     </tr>
18     <?php while ($row = $guests->fetch(PDO::FETCH_ASSOC)) { ?>
19     <tr>
20         <td><?php echo htmlspecialchars(string: $row['name']); ?></td>
21         <td><?php echo htmlspecialchars(string: $row['comment']); ?></td>
22         <td><?php echo $row['created_at']; ?></td>
23     </tr>
24     <?php } ?>
25 </table>
26
```

## 4. Folder Models

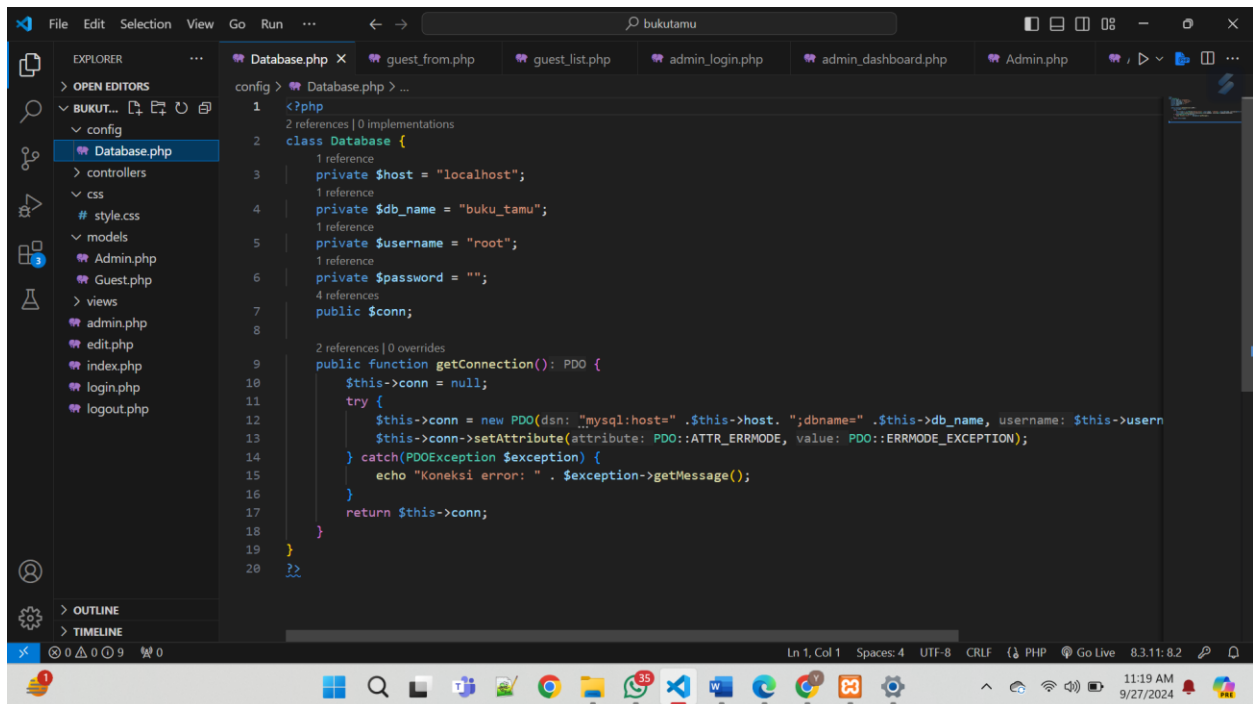


```
1 <?php
2 1 reference | 0 implementations
3 class Admin {
4     2 references
5     private $conn;
6     1 reference
7     private $table_name = "admins";
8
9     1 reference
10    public $id;
11    4 references
12    public $username;
13    2 references
14    public $password;
15
16    1 reference | 0 overrides
17    public function __construct($db) {
18        $this->conn = $db;
19    }
20
21    // Fungsi login admin
22    1 reference | 0 overrides
23    public function login(): bool {
24        $query = "SELECT * FROM " . $this->table_name . " WHERE username = :username LIMIT 0,1";
25        $stmt = $this->conn->prepare($query);
26
27        // Bersihkan data
28        $this->username = htmlspecialchars(string: strip_tags(string: $this->username));
29
30        // Bind data
31        $stmt->bindParam(":username", $this->username);
32    }
33
```



```
models > Guest.php > PHP > Guest > readAll()
2 class Guest {
33
34     // Mengambil semua data tamu
35     1 reference | 0 overrides
36     public function readAll(): mixed {
37         $query = "SELECT * FROM " . $this->table_name . " ORDER BY created_at DESC";
38         $stmt = $this->conn->prepare($query);
39         $stmt->execute();
40         return $stmt;
41     }
42
43     // Menghapus data tamu
44     1 reference | 0 overrides
45     public function delete(): bool {
46         $query = "DELETE FROM " . $this->table_name . " WHERE id = ?";
47         $stmt = $this->conn->prepare($query);
48         $stmt->bindParam(1, $this->id);
49
50         if($stmt->execute()) {
51             return true;
52         }
53         return false;
54     }
55
56     // Mengupdate data tamu
57     1 reference | 0 overrides
58     public function update(): bool {
59         $query = "UPDATE " . $this->table_name . " SET name=:name, comment=:comment WHERE id=:id";
60         $stmt = $this->conn->prepare($query);
61
62         $stmt->bindParam(":name", $this->name);
63         $stmt->bindParam(":comment", $this->comment);
64         $stmt->bindParam(":id", $this->id);
65
66         if($stmt->execute()) {
67             return true;
68         }
69         return false;
70     }
71 }
```

## 5. Config



```
config > Database.php > ...
1 <?php
2 2 references | 0 implementations
3 class Database {
4     1 reference
5     private $host = "localhost";
6     1 reference
7     private $db_name = "buku_tamu";
8     1 reference
9     private $username = "root";
10    1 reference
11    private $password = "";
12    4 references
13    public $conn;
14
15    2 references | 0 overrides
16    public function getConnection(): PDO {
17        $this->conn = null;
18        try {
19            $this->conn = new PDO(dsn: "mysql:host=" . $this->host . ";dbname=" . $this->db_name, username: $this->username, password: $this->password);
20            $this->conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
21        } catch(PDOException $exception) {
22            echo "Koneksi error: " . $exception->getMessage();
23        }
24        return $this->conn;
25    }
26 }
```

## 6. Controllers



```
1 <?php
2 include_once '../config/Database.php';
3 include_once '../models/Admin.php';
4
5 1 reference | 0 implementations
6 class AdminController {
7     4 references
8     private $admin;
9
10    1 reference | 0 overrides
11    public function __construct() {
12        $database = new Database();
13        $db = $database->getConnection();
14        $this->admin = new Admin($db);
15    }
16
17    // Fungsi untuk login
18    1 reference | 0 overrides
19    public function login($username, $password): bool {
20        $this->admin->username = $username;
21        $this->admin->password = $password;
22        return $this->admin->login();
23    }
24 }
25
```

```
4
5 3 references | 0 implementations
6 class GuestController {
7     11 references
8     private $guest;
9
10    3 references | 0 overrides
11    public function __construct() {
12        $database = new Database();
13        $db = $database->getConnection();
14        $this->guest = new Guest($db);
15    }
16
17    // Fungsi untuk menambahkan tamu baru
18    1 reference | 0 overrides
19    public function create($name, $comment): bool {
20        $this->guest->name = $name;
21        $this->guest->comment = $comment;
22        return $this->guest->create();
23    }
24
25    // Fungsi untuk mendapatkan semua data tamu
26    3 references | 0 overrides
27    public function readAll(): mixed {
28        return $this->guest->readAll();
29    }
30
31    // Fungsi untuk menghapus tamu
32    1 reference | 0 overrides
33    public function delete($id): bool {
34
35    }
```

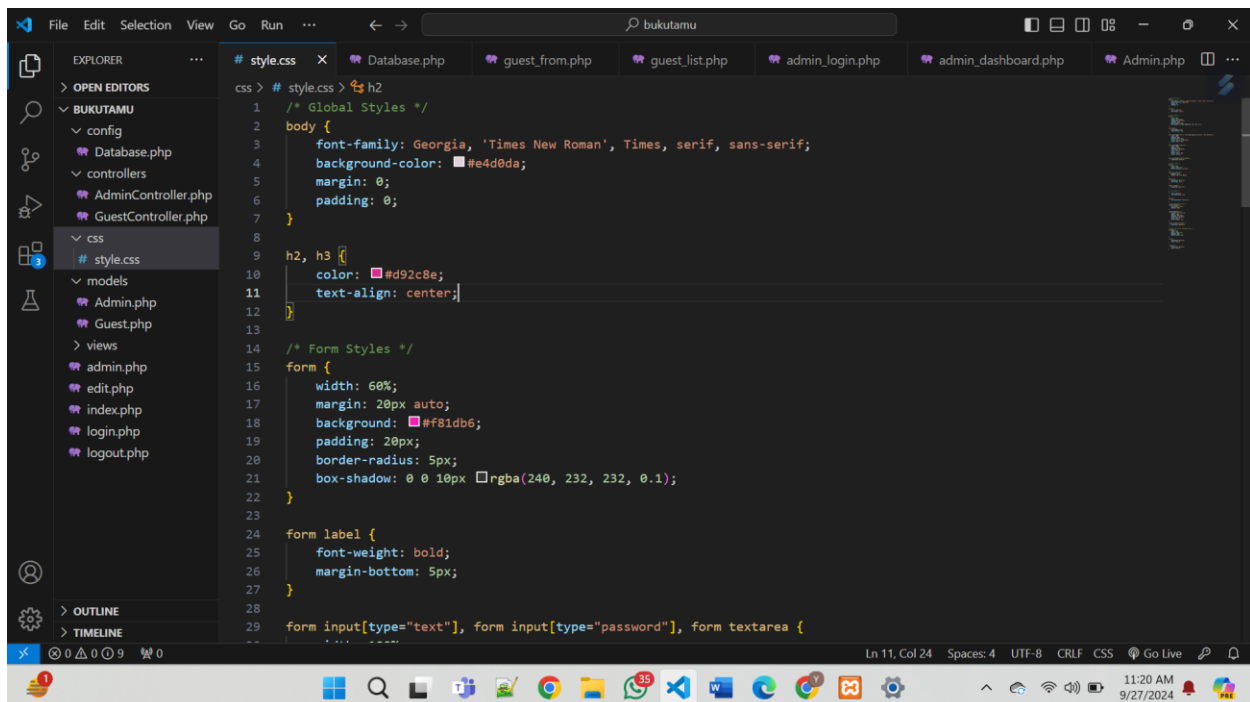
## 7. CSS

Kode CSS di atas mendefinisikan beberapa gaya untuk komponen pada halaman web, dimulai dengan gaya global yang diterapkan pada elemen `body`, `h2`, dan `h3`. Pada `body`, digunakan font `Georgia` dan warna latar belakang `#e4d0da`, sementara elemen `h2` dan `h3` menggunakan warna teks `#d92c8e` dan teks diatur agar sejajar di tengah. Untuk gaya form, lebar form diatur menjadi `60%`, dengan warna latar belakang `#f81db6` dan border-radius `5px` yang memberikan kesan melingkar

pada sudut form. Setiap elemen input pada form memiliki lebar `100%` dengan padding `10px`, border `#fefefe`, dan border-radius `4px`. Tombol submit memiliki latar belakang berwarna `#cf94bc`, dan akan berubah menjadi `#ae4c85` saat dihover.

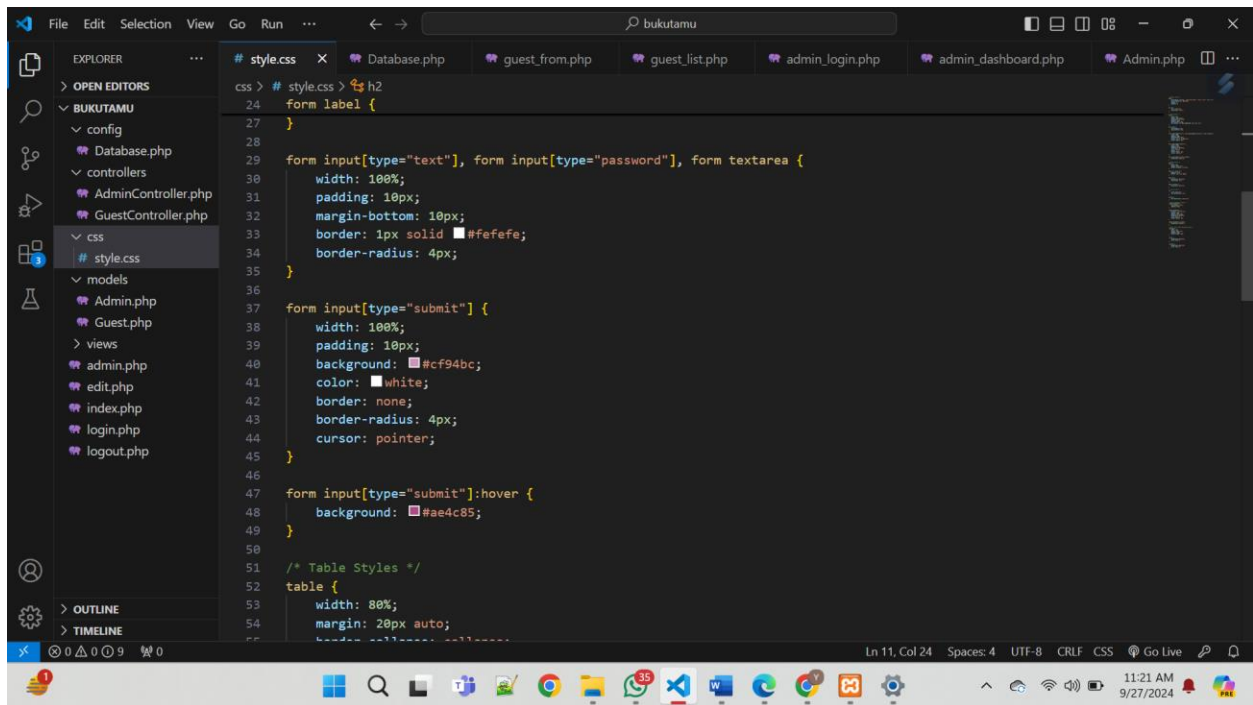
Selain itu, gaya tabel ditata dengan lebar `80%`, border-collapse yang merapatkan batas sel, serta warna latar belakang header tabel `#f4f4f4`. Saat baris tabel dihover, warnanya akan berubah menjadi `#f1f1f1` untuk memberikan efek interaktif. Gaya link menggunakan warna `#d1b3cb` dan tanpa garis bawah, yang akan berubah menjadi underline saat dihover. Pada dashboard admin, gaya disesuaikan dengan padding `20px` dan tombol-tombol navigasi berbentuk persegi panjang dengan warna latar belakang `#fabaff` yang akan berubah menjadi `#9a0071` saat dihover.

Untuk pesan error dan sukses, elemen `div` pesan diberi lebar `60%`, margin `20px auto`, serta padding `10px`, dengan warna latar belakang `#ffaaea` untuk pesan error dan `#bf379f` untuk pesan sukses, keduanya dengan teks berwarna putih dan sudut tumpul sebesar `4px`. Secara keseluruhan, desain ini menonjolkan kombinasi warna-warna cerah dengan elemen-elemen UI yang interaktif, seperti efek hover pada tombol dan baris tabel, untuk menciptakan tampilan yang dinamis serta menarik.



The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with folders like 'config', 'controllers', 'css', 'models', 'views', and 'Admin.php'. The code editor displays the contents of 'style.css'. The CSS code includes global styles for the body, h2 and h3 tags, and form styles for form, form label, and form input/textarea elements. The form styles include width, margin, background, padding, border-radius, and box-shadow. The form input/textarea styles include font-weight, margin-bottom, and padding.

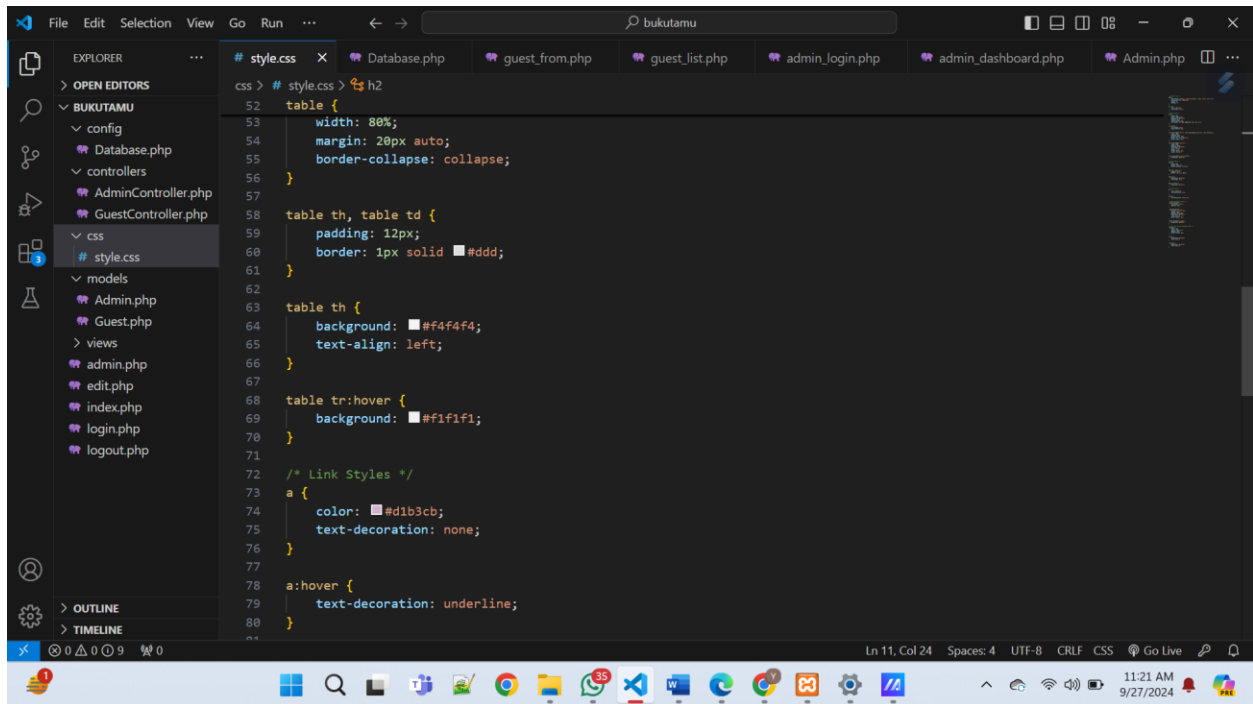
```
css > # style.css > h2
1  /* Global Styles */
2  body {
3      font-family: Georgia, 'Times New Roman', Times, serif, sans-serif;
4      background-color: #e4d0da;
5      margin: 0;
6      padding: 0;
7  }
8
9  h2, h3 {
10     color: #d92c8e;
11     text-align: center;
12 }
13
14 /* Form Styles */
15 form {
16     width: 60%;
17     margin: 20px auto;
18     background: #fb8db6;
19     padding: 20px;
20     border-radius: 5px;
21     box-shadow: 0 0 10px rgba(240, 232, 232, 0.1);
22 }
23
24 form label {
25     font-weight: bold;
26     margin-bottom: 5px;
27 }
28
29 form input[type="text"], form input[type="password"], form textarea {
30     width: 100%;
31     padding: 10px;
32     border: 1px solid #fefefe;
33     border-radius: 4px;
34 }
```



This screenshot shows the Visual Studio Code editor with the 'bukutamu' project open. The Explorer sidebar on the left shows the project structure, including 'config', 'controllers', 'css', 'models', and 'views'. The 'css' folder is expanded, and 'style.css' is selected. The main editor displays the following CSS code:

```
css > # style.css > h2
24 form label {
25 }
26
27 form input[type="text"], form input[type="password"], form textarea {
28   width: 100%;
29   padding: 10px;
30   margin-bottom: 10px;
31   border: 1px solid #fefefe;
32   border-radius: 4px;
33 }
34
35 form input[type="submit"] {
36   width: 100%;
37   padding: 10px;
38   background: #cf94bc;
39   color: white;
40   border: none;
41   border-radius: 4px;
42   cursor: pointer;
43 }
44
45 form input[type="submit"]:hover {
46   background: #ae4c85;
47 }
48
49
50
51 /* Table Styles */
52 table {
53   width: 80%;
54   margin: 20px auto;
55   border-collapse: collapse;
```

The status bar at the bottom indicates the cursor is at line 11, column 24, with 4 spaces, UTF-8 encoding, CRLF line endings, and CSS syntax highlighting.



This screenshot shows the Visual Studio Code editor with the 'bukutamu' project open. The Explorer sidebar on the left shows the project structure, including 'config', 'controllers', 'css', 'models', and 'views'. The 'css' folder is expanded, and 'style.css' is selected. The main editor displays the following CSS code:

```
css > # style.css > h2
52 table {
53   width: 80%;
54   margin: 20px auto;
55   border-collapse: collapse;
56 }
57
58 table th, table td {
59   padding: 12px;
60   border: 1px solid #ddd;
61 }
62
63 table th {
64   background: #f4f4f4;
65   text-align: left;
66 }
67
68 table tr:hover {
69   background: #f1f1f1;
70 }
71
72 /* Link Styles */
73 a {
74   color: #d1b3cb;
75   text-decoration: none;
76 }
77
78 a:hover {
79   text-decoration: underline;
80 }
81
```

The status bar at the bottom indicates the cursor is at line 11, column 24, with 4 spaces, UTF-8 encoding, CRLF line endings, and CSS syntax highlighting.

```
css > # style.css > h2
73  a {
74      color: #d1b3cb;
75      text-decoration: none;
76  }
77
78  a:hover {
79      text-decoration: underline;
80  }
81
82  /* Admin Dashboard Styles */
83  .admin-dashboard {
84      text-align: center;
85      padding: 20px;
86  }
87
88  .admin-dashboard a {
89      display: inline-block;
90      margin: 10px;
91      padding: 10px 20px;
92      background: #fabaff;
93      color: white;
94      border-radius: 4px;
95  }
96
97  .admin-dashboard a:hover {
98      background: #9a0071;
99  }
100
101  /* Error and Success Message Styles */
```

```
css > # style.css > h2
95  }
96
97  .admin-dashboard a:hover {
98      background: #9a0071;
99  }
100
101  /* Error and Success Message Styles */
102  .message {
103      width: 60%;
104      margin: 20px auto;
105      padding: 10px;
106      border-radius: 4px;
107  }
108
109  .error {
110      background: #ffa0a0;
111      color: white;
112  }
113
114  .success {
115      background: #b379bf;
116      color: white;
117  }
```

## 8. Hasil Running

Sign in

Buku Tamu

localhost / 127.0.0.1 / buku\_tamu

localhost/bukutamu/index.php

Selamat Datang di Buku Tamu

Nama:

Komentar:

Kirim

Daftar Komentar

Nama	Komentar	Waktu
Yesi	Yessss	2024-09-27 09:48:47

Sign in

Login Admin

localhost / 127.0.0.1 / buku\_tamu

localhost/bukutamu/login.php

Login Admin

Username:

Password:

Login