

# **TUGAS PRAKTIKUM**

## **PEMROGRAMAN BERBASIS WEB**

Untuk Memenuhi Tugas Praktikum Pemrograman Berbasis Web



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# **BAB I**

## **PENDAHULUAN**

### **1.1 Latar Belakang**

Dalam era digital saat ini, pengembangan aplikasi web yang efisien, aman, dan mudah dipelihara menjadi semakin penting. Praktikum ini berfokus pada pembuatan aplikasi buku tamu menggunakan tiga konsep utama dalam pengembangan perangkat lunak modern: Object-Oriented Programming (OOP), PHP Data Objects (PDO), dan Model-View-Controller (MVC).

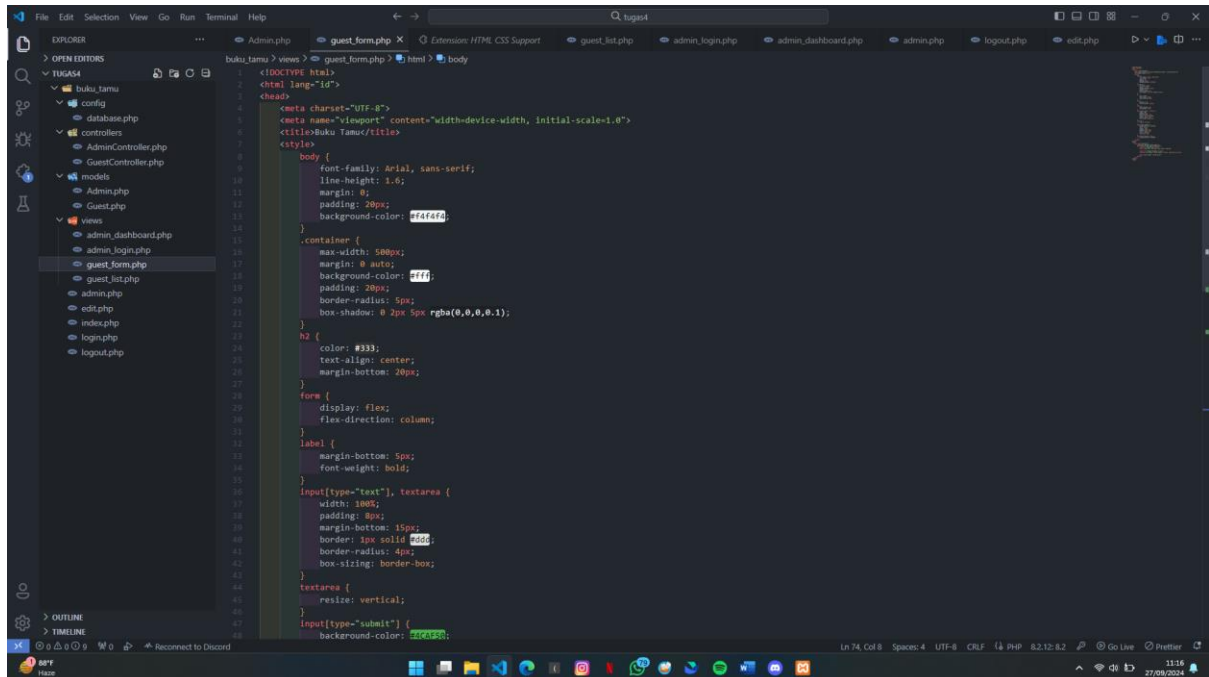
Aplikasi buku tamu merupakan komponen umum dalam berbagai situs web, memungkinkan pengunjung untuk meninggalkan pesan, komentar, atau umpan balik. Meskipun konsepnya sederhana, pembuatan aplikasi ini dengan menggunakan praktik pengembangan terbaik dapat memberikan wawasan berharga tentang arsitektur perangkat lunak yang kuat.

### **1.2 Tujuan**

1. Implementasi prinsip OOP dalam PHP
2. Menggunakan PDO untuk koneksi dan manipulasi data di MySQL
3. Menerapkan konsep MVC
4. Membuat fitur login admin untuk mengedit dan menghapus komentar dari pengguna

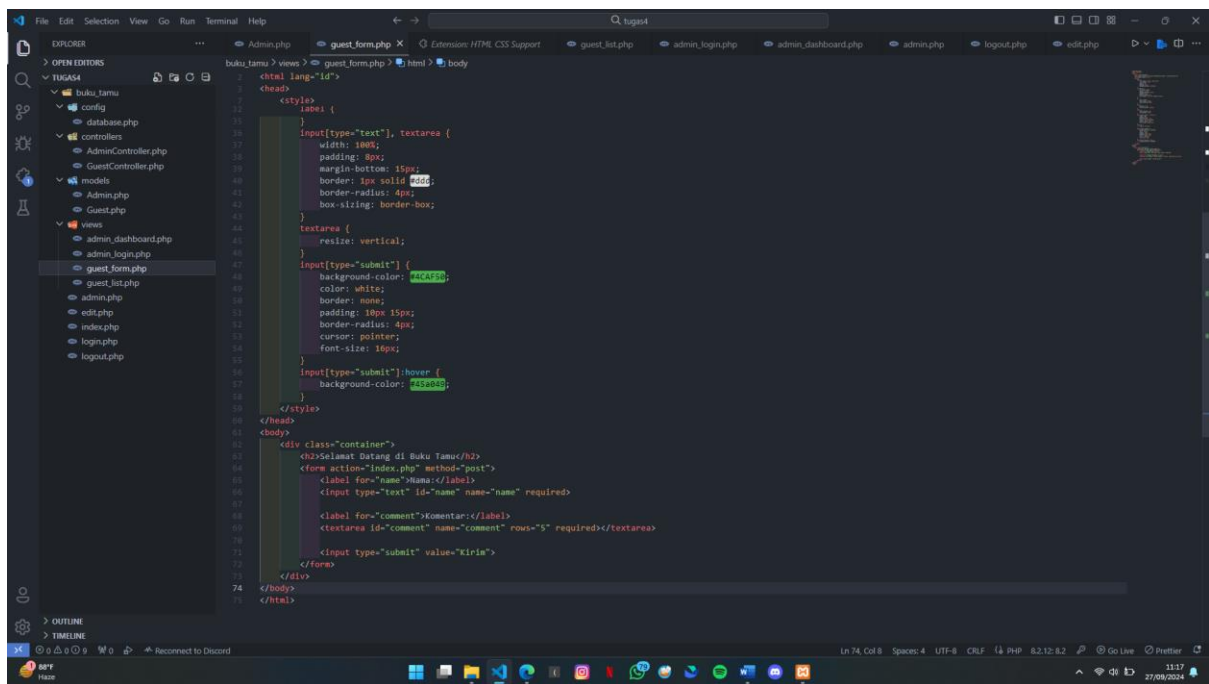
## 1.3 Pembahasan

### Model index.php



This screenshot shows the CSS file `guest_form.php` in a VS Code editor. The file is part of a project named `buku_tamu` and is located in the `views` directory. The CSS defines the styling for a guest form, including a container, a header, a form, and a submit button. The container has a max-width of 500px and a background color of #f4f4f4. The header has a color of #333 and a text-align of center. The form has a display of flex and a flex-direction of column. The submit button has a background-color of #4CAF50 and a color of white. The form includes a text input and a text area.

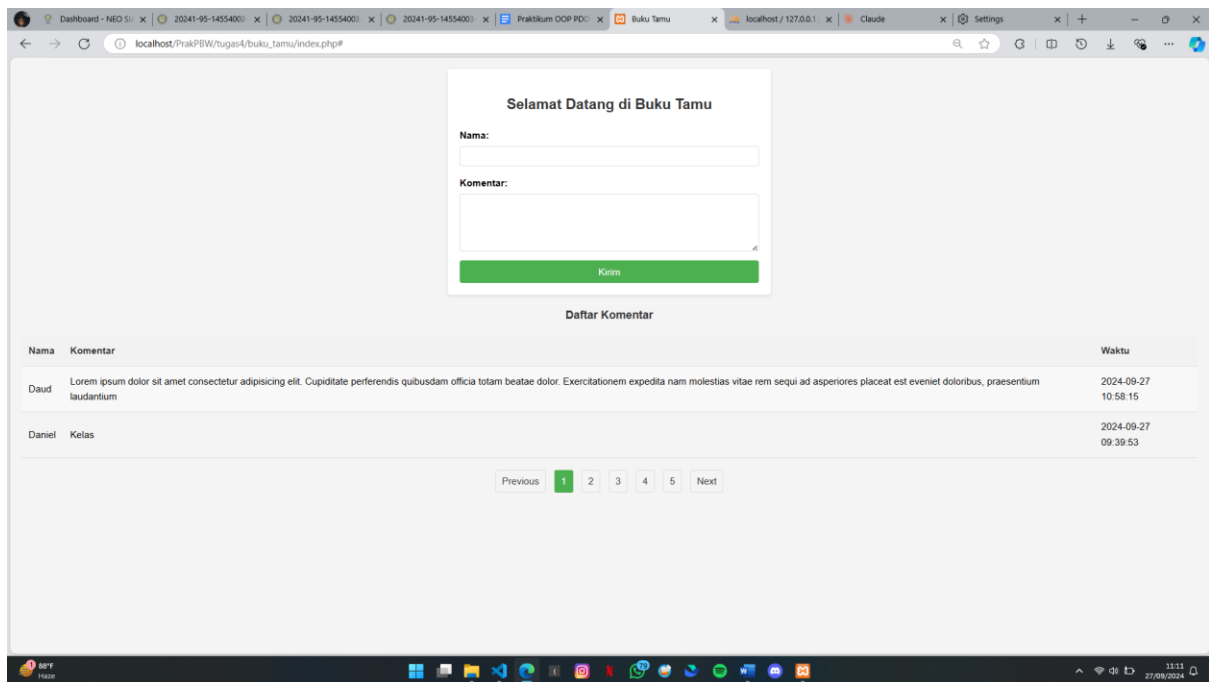
```
1 <!DOCTYPE html>
2 <html lang="id">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Buku Tamu</title>
7 <style>
8 body {
9     font-family: Arial, sans-serif;
10    line-height: 1.6;
11    margin: 0;
12    padding: 20px;
13    background-color: #f4f4f4;
14 }
15 .container {
16     max-width: 500px;
17     margin: 0 auto;
18     background-color: #fff;
19     padding: 20px;
20     border-radius: 5px;
21     box-shadow: 0 2px 5px rgba(0,0,0,0.1);
22 }
23 h2 {
24     color: #333;
25     text-align: center;
26     margin-bottom: 20px;
27 }
28 form {
29     display: flex;
30     flex-direction: column;
31 }
32 label {
33     margin-bottom: 5px;
34     font-weight: bold;
35 }
36 input[type="text"], textarea {
37     width: 100%;
38     padding: 8px;
39     margin-bottom: 15px;
40     border: 1px solid #ccc;
41     border-radius: 4px;
42     box-sizing: border-box;
43 }
44 textarea {
45     resize: vertical;
46 }
47 input[type="submit"] {
48     background-color: #4CAF50;
```



This screenshot shows the HTML file `index.php` in a VS Code editor. The file is part of a project named `buku_tamu` and is located in the `views` directory. The HTML defines the structure of the guest form, including a container, a header, a form, and a submit button. The container has a class of `container` and a max-width of 500px. The header has a color of #333 and a text-align of center. The form has a display of flex and a flex-direction of column. The submit button has a background-color of #4CAF50 and a color of white. The form includes a text input and a text area.

```
1 <html lang="id">
2 <head>
3 <style>
4 label {
5 }
6 input[type="text"], textarea {
7     width: 100%;
8     padding: 8px;
9     margin-bottom: 15px;
10    border: 1px solid #ccc;
11    border-radius: 4px;
12    box-sizing: border-box;
13 }
14 textarea {
15     resize: vertical;
16 }
17 input[type="submit"] {
18     background-color: #4CAF50;
19     color: white;
20     border: none;
21     padding: 10px 15px;
22     border-radius: 4px;
23     cursor: pointer;
24     font-size: 16px;
25 }
26 input[type="submit"]:hover {
27     background-color: #458040;
28 }
29 </style>
30 </head>
31 <body>
32 <div class="container">
33 <h2>Selamat Datang di Buku Tamu</h2>
34 <form action="index.php" method="post">
35 <label for="name">Nama:</label>
36 <input type="text" id="name" name="name" required>
37
38 <label for="comment">Komentar:</label>
39 <textarea id="comment" name="comment" rows="5" required></textarea>
40
41 <input type="submit" value="Kirim">
42 </form>
43 </div>
44 </body>
45 </html>
```

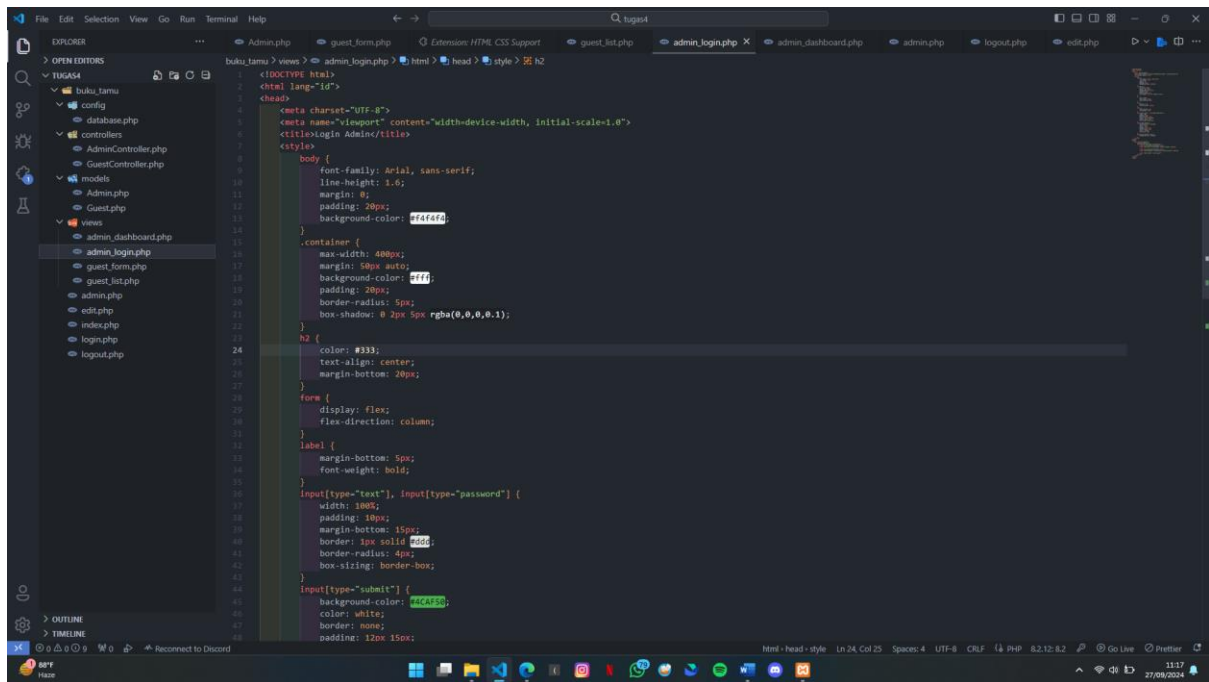
## Konsep Pagination



Di bagian bawah, terdapat navigasi pagination yang memungkinkan pengguna untuk berpindah antar halaman komentar

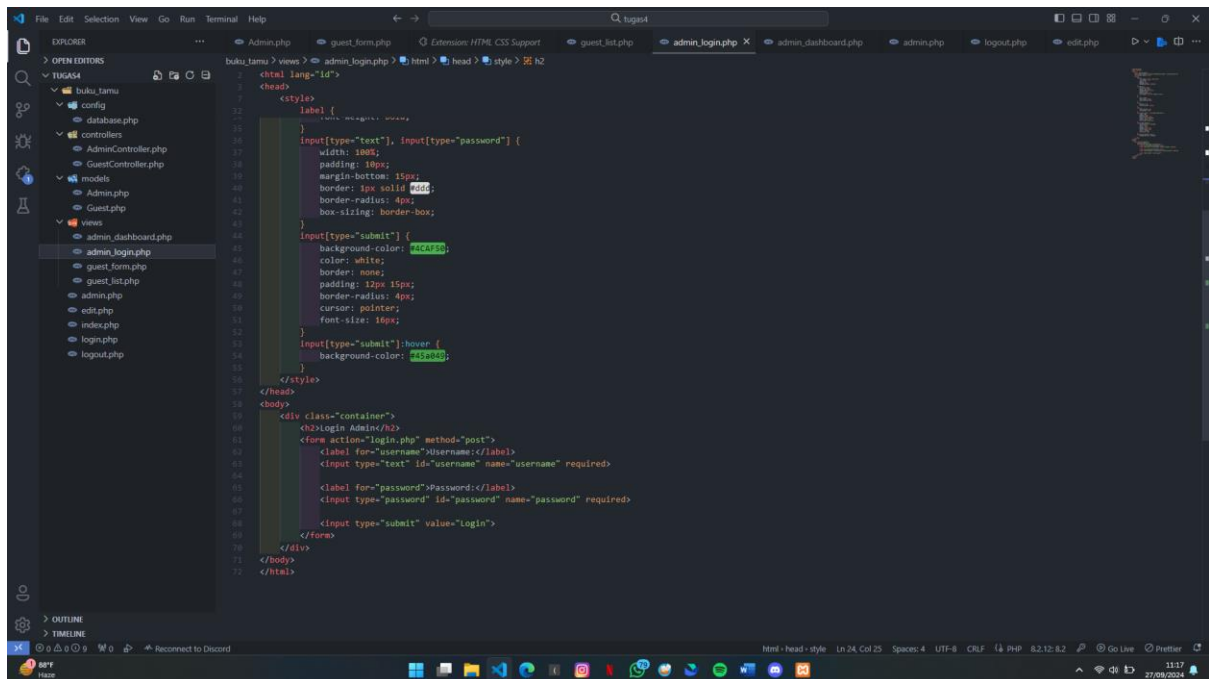
Implementasi ini, aplikasi buku tamu Anda sekarang dapat menampilkan komentar dalam beberapa halaman. Pengguna dapat menavigasi antar halaman menggunakan link pagination di bagian bawah daftar komentar

## Model login.php



This screenshot shows the CSS portion of the login form in `admin_login.php`. The code defines a container, an h2 heading, and a form with text and password inputs.

```
1 <!DOCTYPE html>
2 <html lang="id">
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 <style>
8     body {
9         font-family: Arial, sans-serif;
10        line-height: 1.6;
11        margin: 0;
12        padding: 20px;
13        background-color: #f4f4f4;
14    }
15    .container {
16        max-width: 400px;
17        margin: 50px auto;
18        background-color: #fff;
19        padding: 20px;
20        border-radius: 5px;
21        box-shadow: 0 2px 5px rgba(0,0,0,0.1);
22    }
23    h2 {
24        color: #333;
25        text-align: center;
26        margin-bottom: 20px;
27    }
28    form {
29        display: flex;
30        flex-direction: column;
31    }
32    label {
33        margin-bottom: 5px;
34        font-weight: bold;
35    }
36    input[type="text"], input[type="password"] {
37        width: 100%;
38        padding: 10px;
39        margin-bottom: 15px;
40        border: 1px solid #ccc;
41        border-radius: 4px;
42        box-sizing: border-box;
43    }
44    input[type="submit"] {
45        background-color: #4CAF50;
46        color: white;
47        border: none;
48        padding: 12px 15px;
49    }
```



This screenshot shows the HTML portion of the login form in `admin_login.php`. It includes the h2 heading, a form with labels and inputs for username and password, and a submit button.

```
1 <html lang="id">
2 <head>
3 <style>
4     label {
5         margin-bottom: 5px;
6         font-weight: bold;
7     }
8     input[type="text"], input[type="password"] {
9         width: 100%;
10        padding: 10px;
11        margin-bottom: 15px;
12        border: 1px solid #ccc;
13        border-radius: 4px;
14        box-sizing: border-box;
15    }
16    input[type="submit"] {
17        background-color: #4CAF50;
18        color: white;
19        border: none;
20        padding: 12px 15px;
21        cursor: pointer;
22        font-size: 16px;
23    }
24    input[type="submit"]:hover {
25        background-color: #458040;
26    }
27 </style>
28 </head>
29 <body>
30 <div class="container">
31 <h2>Login Admin</h2>
32 <form action="login.php" method="post">
33 <label for="username">Username</label>
34 <input type="text" id="username" name="username" required>
35 <label for="password">Password</label>
36 <input type="password" id="password" name="password" required>
37 <input type="submit" value="Login">
38 </form>
39 </div>
40 </body>
41 </html>
```

