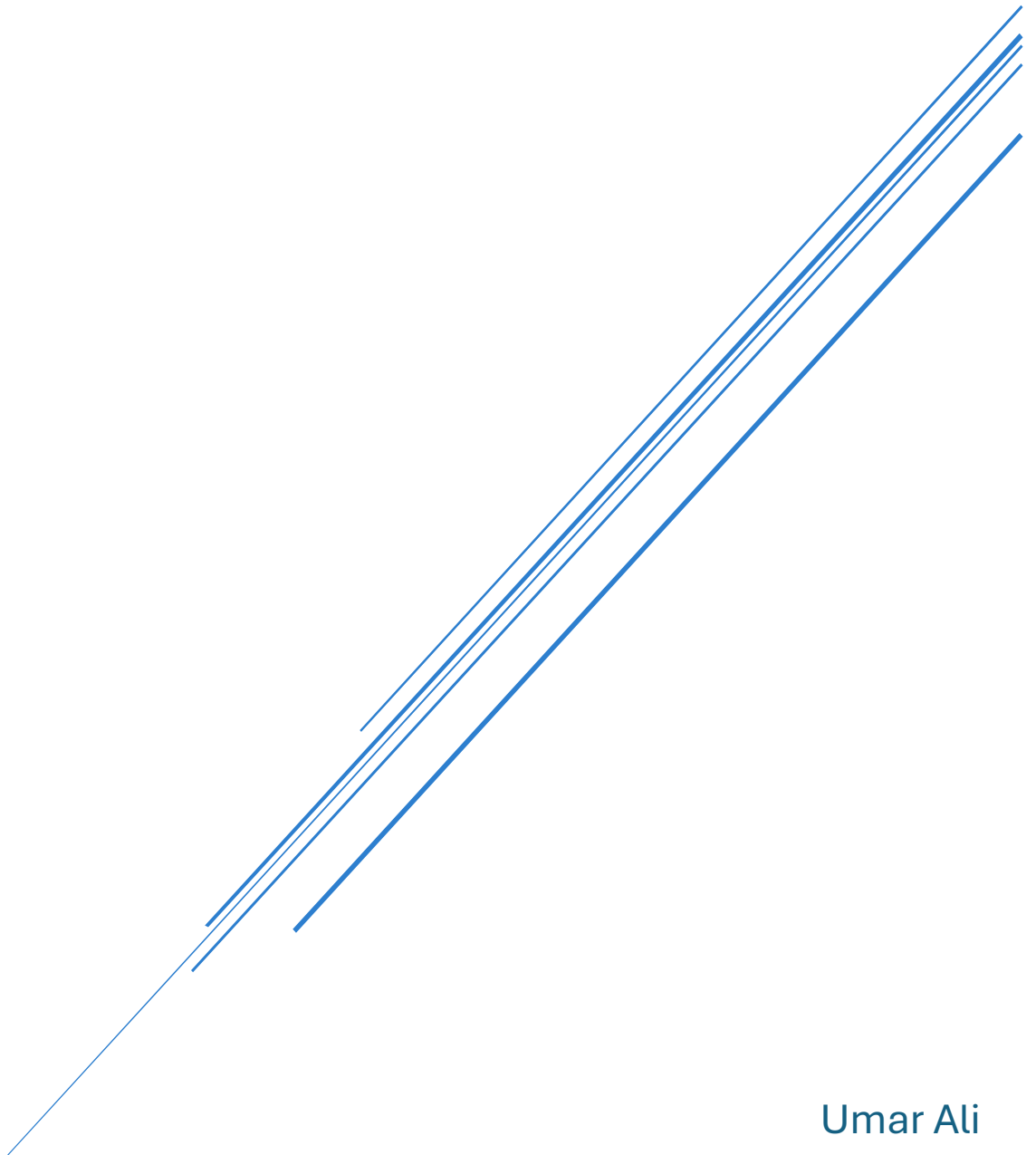


WEB ENGINEERING

MR ADIL IBRAR KAZMI

MR KHIZER HAYYAT



Umar Ali

B22F0088SE094

SE-F22 Red

Web Engineering Lab Mid

Creating a Portfolio Website:

Design a portfolio website with following sections:

Header with Navigation Menu

About Me Section

Projects Showcase(Grid Layout)

Contact Form.

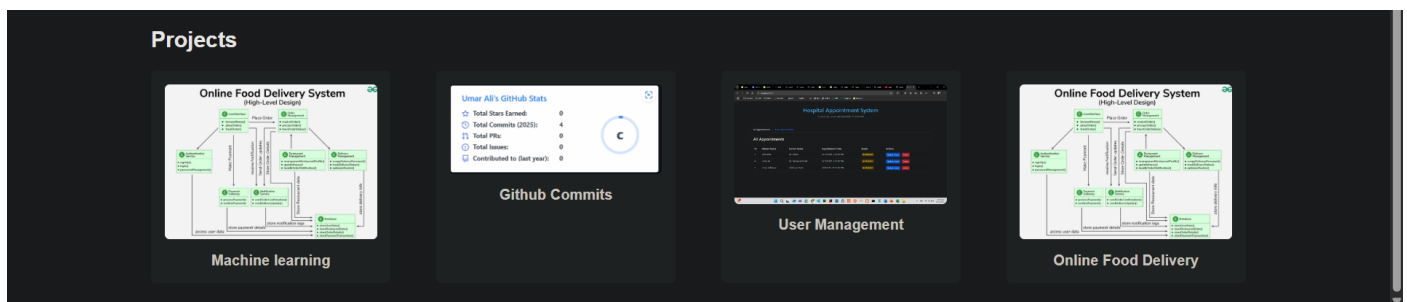
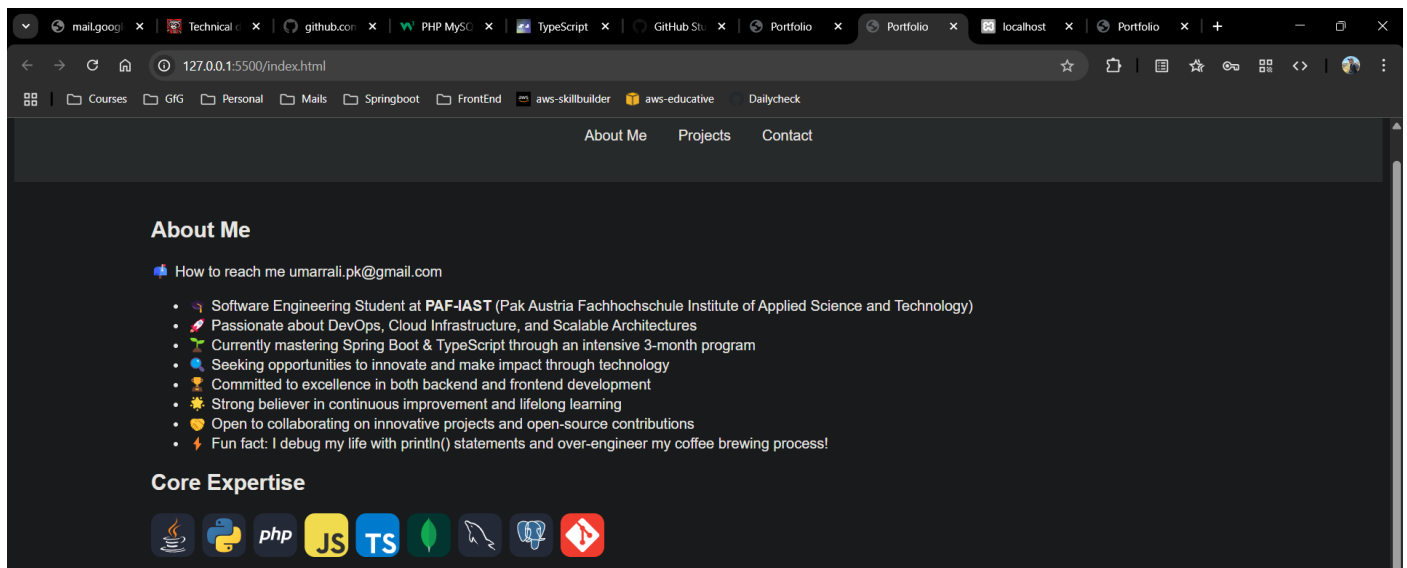
HTML Code:

```
index.html > html > body > div.container > section#about > h2
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   <link rel="stylesheet" href="styles.css">
7   <title>Portfolio</title>
8 </head>
9 <body>
10   <header>
11     <nav>
12       <ul>
13         <li><a href="#about">About Me</a></li>
14         <li><a href="#projects">Projects</a></li>
15         <li><a href="contact.html">Contact</a></li>
16       </ul>
17     </nav>
18   </header>
19   <div class="container">
20     <section id="about">
21       <h2>About Me</h2>
22       <p>📧 How to reach me umarali.pk@gmail.com</p>
23       <ul>
24         <li>🎓 Software Engineering Student at <b>PAF-IAST</b> (Pak Austria Fachhochschule Institute of Applied Science and Technology)</li>
25         <li>🔥 Passionate about DevOps, Cloud Infrastructure, and Scalable Architectures</li>
26         <li>🚀 Currently mastering Spring Boot & TypeScript through an intensive 3-month program</li>
27         <li>💡 Seeking opportunities to innovate and make impact through technology</li>
28         <li>🏆 Committed to excellence in both backend and frontend development</li>
29         <li>🌟 Strong believer in continuous improvement and lifelong learning</li>
30         <li>🤝 Open to collaborating on innovative projects and open-source contributions</li>
31         <li>⚡ Fun fact: I debug my life with println() statements and over-engineer my coffee brewing process</li>
32       </ul>
33       <h2>Core Expertise</h2>
34       <div>
35         
36       </div>
37     </section>
38
39     <section id="projects">
40       <h2>Projects</h2>
41       <div class="projects">
42         <div class="project">
43           
44           <a href="https://github.com/umar-alii/JPA-Lab7.git" target="_blank">Machine Learning</a>
45         </div>
46         <div class="project">
47           
48           <a href="https://github.com/umar-alii/JPA-Lab7.git" target="_blank">Github Commits</a>
49         </div>
50         <div class="project">
51           
52           <a href="https://github.com/umar-alii/JPA-Lab7.git" target="_blank">User Management</a>
53         </div>
54         <div class="project">
55           
56           <a href="https://github.com/umar-alii/JPA-Lab7.git" target="_blank">Online Food Delivery</a>
57         </div>
58       </div>
59     </section>
60
61   </div>
62 </body>
63 </html>
64
65
```

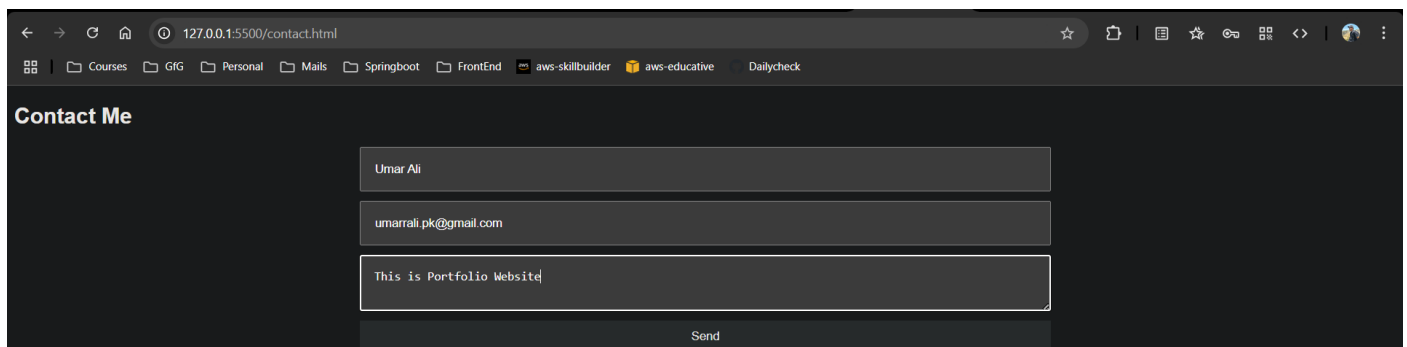
CSS Code:

```
body {  
  
font-family: Arial, sans-serif;}  
  
header {  
  
background: #333;  
  
color: white;  
  
padding: 15px;  
  
text-align: center;}  
  
nav ul {  
  
list-style: none;  
  
padding: 10px;  
  
text-align: center;}  
  
nav ul li {  
  
display: inline;  
  
margin: 0 15px;}  
  
nav ul li a {  
  
color: white;  
  
text-decoration: none;}  
  
.container {  
  
width: 80%;  
  
margin: auto;  
  
padding: 20px;}  
  
.projects {  
  
display: grid;  
  
grid-template-columns: repeat(auto-fit, minmax(250px,  
1fr));  
  
gap: 50px;}  
  
.project {  
  
background: #f4f4f4;  
  
padding: 15px;  
  
text-align: center;  
  
border-radius: 5px;}  
  
.project img {  
  
width: 100%;  
  
height: auto;  
  
border-radius: 5px;}  
  
.project a {  
  
display: block;  
  
margin-top: 10px;  
  
color: #333;  
  
text-decoration: none;  
  
font-weight: bold;}  
  
form {  
  
display: flex;  
  
flex-direction: column;  
  
width: 50%;  
  
margin: auto;}  
  
input, textarea {  
  
margin-bottom: 10px;  
  
padding: 15px;}  
  
button {  
  
background: #333;  
  
color: white;  
  
padding: 10px;  
  
border: none;  
  
cursor: pointer;  
  
}
```

Output of CODE:



Contact Us Page:



Task2:

Create a Dynamic Todo List APP where user can:

Add Tasks

Mark Tasks as Completed

Delete Tasks:

HTML and CSS Code:

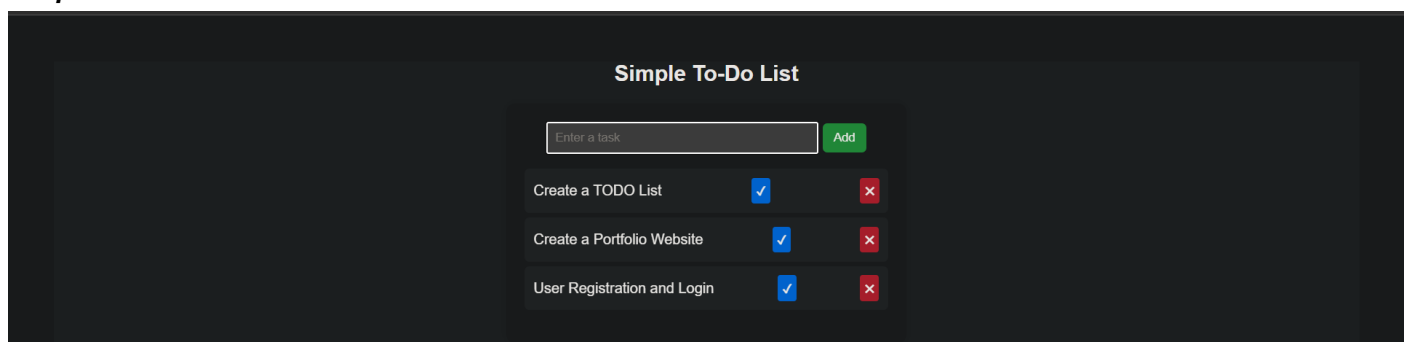
```
index.html > html > head > style > input
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Simple To-Do List</title>
7   <script defer src="index.js"></script>
8   <style>
9     body {
10       font-family: Arial, sans-serif;
11       text-align: center;
12       margin: 50px;
13       background: #f8f9fa;
14     }
15     #todo-container {
16       max-width: 400px;
17       margin: auto;
18       padding: 20px;
19       background: white;
20       box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
21       border-radius: 10px;
22     }
23     input {
24       width: 70%;
25       padding: 8px;
26     }
27     button {
28       padding: 8px 12px;
29       cursor: pointer;
30       border: none;
31       border-radius: 5px;
32     }
33     #addBtn {
34       background: #28a745;
35       color: white;
36     }
37     ul {
38       list-style: none;
39       padding: 0;
40     }
41     li {
42       background: #f4f4f4;
43       margin: 5px 0;
44       padding: 10px;
45       display: flex;
46       justify-content: space-between;
47       align-items: center;
48       border-radius: 5px;
49     }
50     li:hover {
51       background: #e2e6ea;
52     }
53     .completed {
54       text-decoration: line-through;
55       color: grey;
56     }
57     .btn {
58       margin-left: 10px;
59       padding: 5px;
60       cursor: pointer;
61       border: none;
62       border-radius: 3px;
63     }
64     .completeBtn {
65       background: #007bff;
66       color: white;
67     }
68     .deleteBtn {
69       background: #dc3545;
70       color: white;
71     }
72   </style>
73 </head>
74 <body>
75   <h2>Simple To-Do List</h2>
76   <div id="todo-container">
77     <input type="text" id="taskInput" placeholder="Enter a task">
78     <button id="addBtn">Add</button>
79     <ul id="taskList"></ul>
80   </div>
81 </body>
82 </html>
83
```

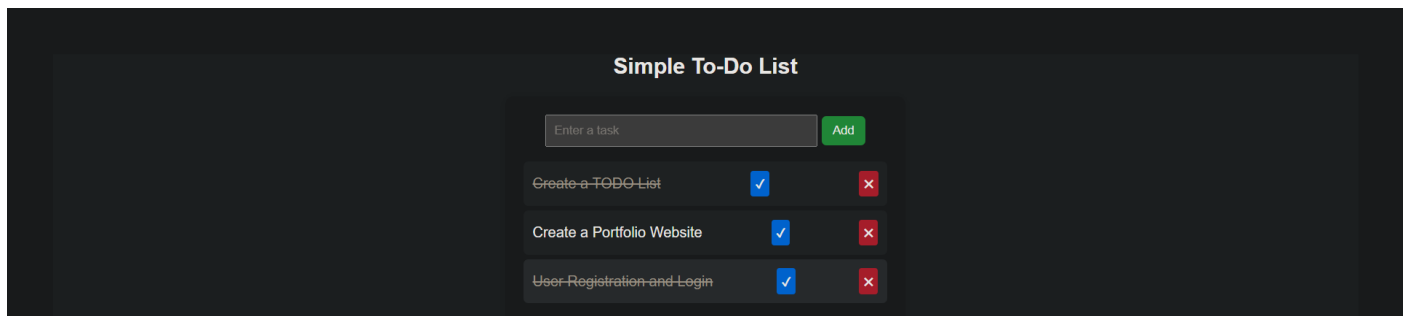
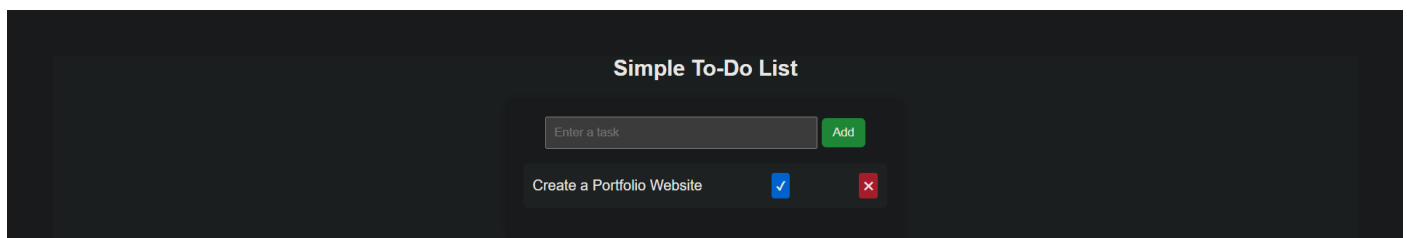
JavaScript Code:

```

JS index.js > document.addEventListener("DOMContentLoaded") callback > addTask
1  document.addEventListener("DOMContentLoaded", function () {
2      let taskInput = document.getElementById("taskInput");
3      let addBtn = document.getElementById("addBtn");
4      let taskList = document.getElementById("taskList");
5
6      function addTask() {
7          let taskText = taskInput.value.trim();
8          if (taskText === "") return;
9
10         let li = document.createElement("li");
11         let span = document.createElement("span");
12         span.textContent = taskText;
13         let completeBtn = document.createElement("button");
14         completeBtn.textContent = "✓";
15         completeBtn.classList.add("btn", "completeBtn");
16         completeBtn.addEventListener("click", function () {
17             span.classList.toggle("completed");
18         });
19         let deleteBtn = document.createElement("button");
20         deleteBtn.textContent = "✕";
21         deleteBtn.classList.add("btn", "deleteBtn");
22         deleteBtn.addEventListener("click", function () {
23             li.remove();
24         });
25         li.appendChild(span);
26         li.appendChild(completeBtn);
27         li.appendChild(deleteBtn);
28         taskList.appendChild(li);
29         taskInput.value = "";
30     }
31
32     addBtn.addEventListener("click", addTask);
33     taskInput.addEventListener("keypress", function (e) {
34         if (e.key === "Enter") addTask();
35     });
36 });
37

```

Output:

Marking Tasks as Done:**Removing the Tasks:****Task3:****User Registration and Login**

- **Create a User Registration Form.**
- **Store User Credentials in database**
- **Validate Login Credentials**

Index.html

```

1
2  <!DOCTYPE html>
3  <html>
4  <head>
5      <title>Login</title>
6      <link rel="stylesheet" href="styles.css">
7  </head>
8  <body>
9      <div class="container">
10         <h2>Login</h2>
11         <form action="login.php" method="POST">
12             <input type="text" name="username" placeholder="Username" required>
13             <input type="password" name="password" placeholder="Password" required>
14             <button type="submit">Login</button>
15         </form>
16         <p>Don't have an account? <a href="register.html">Register</a></p>
17     </div>
18 </body>
19 </html>
20

```


Login.php

```
login.php
1  <?php
2  include 'config.php';
3
4  if ($_SERVER["REQUEST_METHOD"] == "POST") {
5      $username = $_POST['username'];
6      $password = $_POST['password'];
7
8      $sql = "SELECT * FROM users WHERE username='$username'";
9      $result = $conn->query($sql);
10
11     if ($result->num_rows > 0) {
12         $row = $result->fetch_assoc();
13         if (password_verify($password, $row['password'])) {
14             echo "Login successful! Welcome, " . $row['username'];
15         } else {
16             echo "Invalid credentials!";
17         }
18     } else {
19         echo "User not found!";
20     }
21
22     $conn->close();
23 }
24 ?>
```


Register.php

```
register.php
1  <?php
2  include 'config.php';
3
4  if ($_SERVER["REQUEST_METHOD"] == "POST") {
5      $username = $_POST['username'];
6      $email = $_POST['email'];
7      $password = password_hash($_POST['password'], PASSWORD_DEFAULT);
8
9      $sql = "INSERT INTO users (username, email, password) VALUES ('$username', '$email', '$password')";
10
11     if ($conn->query($sql) === TRUE) {
12         echo "Registration successful! <a href='index.html'>Login here</a>";
13     } else {
14         echo "Error: " . $conn->error;
15     }
16
17     $conn->close();
18 }
19 ?>
```









Register.html

```
<> register.html >  html
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>Register</title>
5      <link rel="stylesheet" href="styles.css">
6  </head>
7  <body>
8      <div class="container">
9          <h2>Register</h2>
10         <form action="register.php" method="POST">
11             <input type="text" name="username" placeholder="Username" required>
12             <input type="email" name="email" placeholder="Email" required>
13             <input type="password" name="password" placeholder="Password" required>
14             <button type="submit">Register</button>
15         </form>
16         <p>Already have an account? <a href="index.html">Login</a></p>
17     </div>
18 </body>
19 </html>
```

Config.php

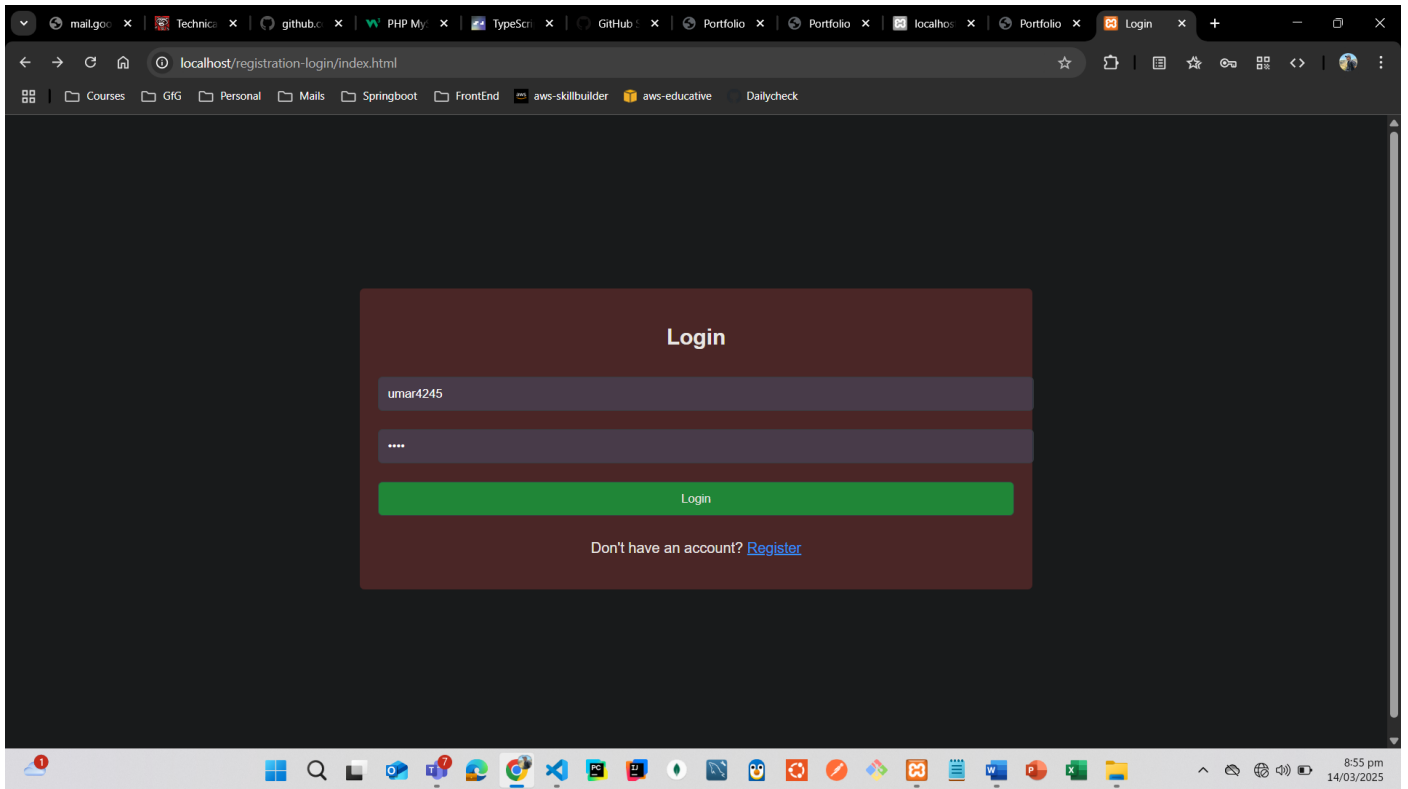
```
 config.php
1  <?php
2  $host = "localhost";
3  $user = "root";
4  $pass = "";
5  $dbname = "register";
6
7  $conn = new mysqli($host, $user, $pass, $dbname);
8
9  if ($conn->connect_error) {
10      die("Connection failed: " . $conn->connect_error);
11  }
12  ?>
```

Styles.css

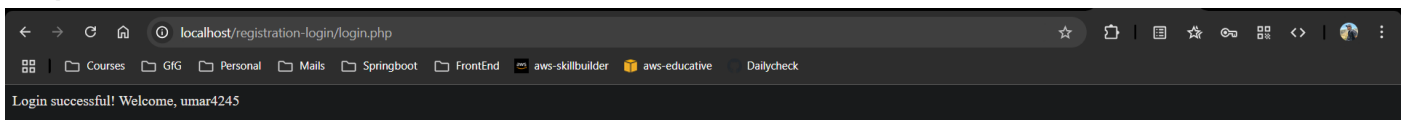
```
# styles.css >  body
1  body {
2      font-family: Arial, sans-serif;
3      display: flex;
4      justify-content: center;
5      align-items: center;
6      height: 100vh;
7      background-color:  white;
8  }
9  .container {
10     background:  rgb(220, 188, 188);
11     padding: 20px;
12     width: 700px;
13     border-radius: 5px;
14     text-align: center;
15 }
16 input, button {
17     width: 100%;
18     padding: 10px;
19     margin: 10px 0;
20     border: 1px solid  #ddd;
21     border-radius: 5px;
22 }
23 button {
24     background:  #28a745;
25     color:  white;
26     cursor: pointer;
27 }
28 button:hover {
29     background:  #218838;
30 }
```

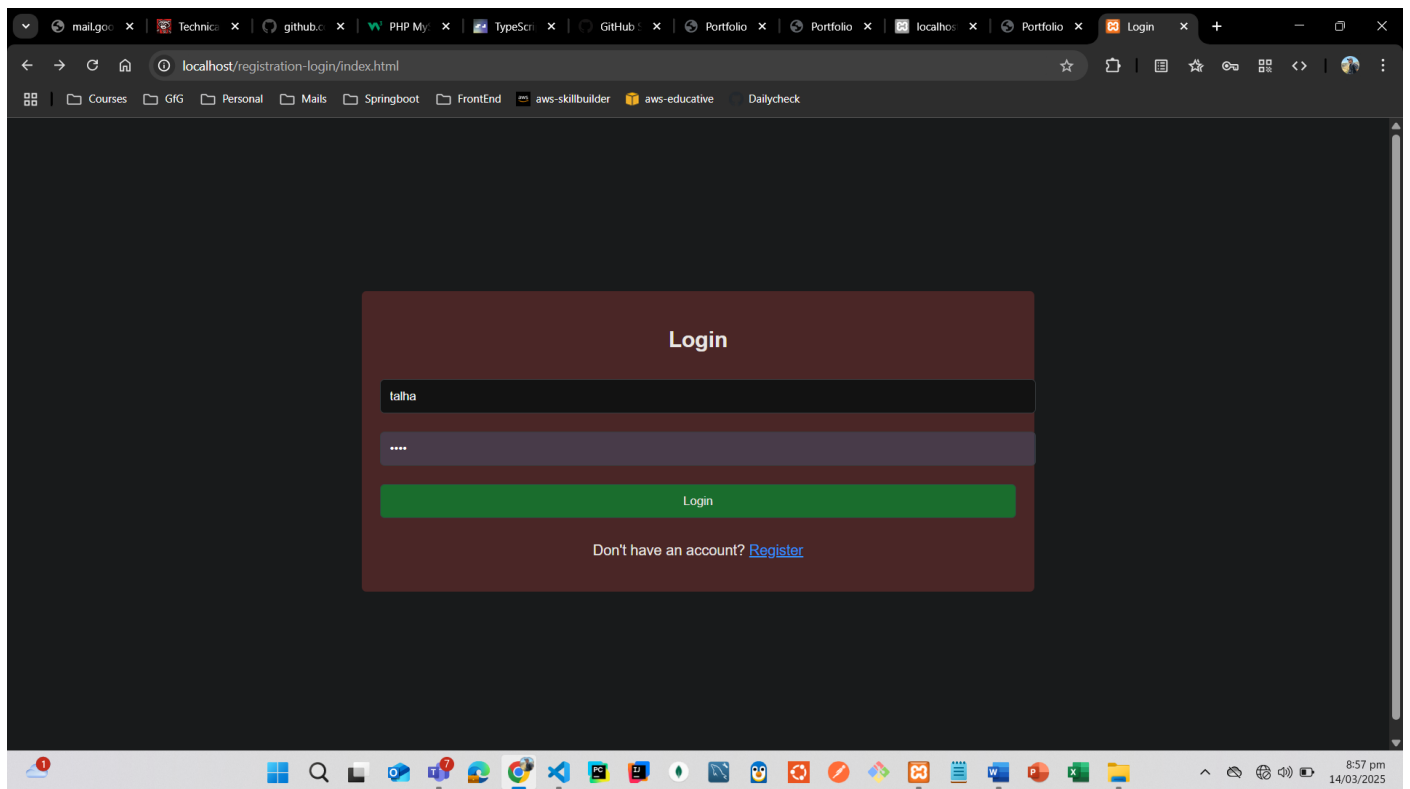
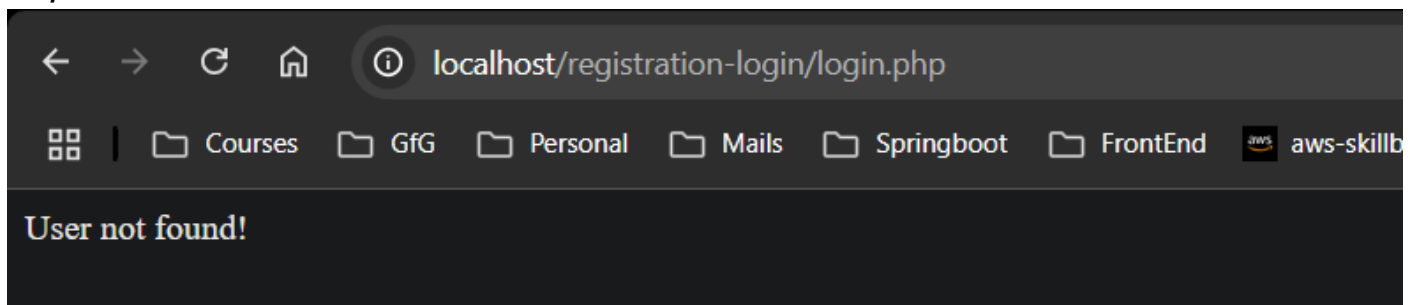
Output of Code:

Correct Input:



Output:



Wrong Input:**Output:**

Register New User:

Register

talha

talha@gmail.com

Register

Already have an account? [Login](#)

Output:

Registration successful! [Login here](#)

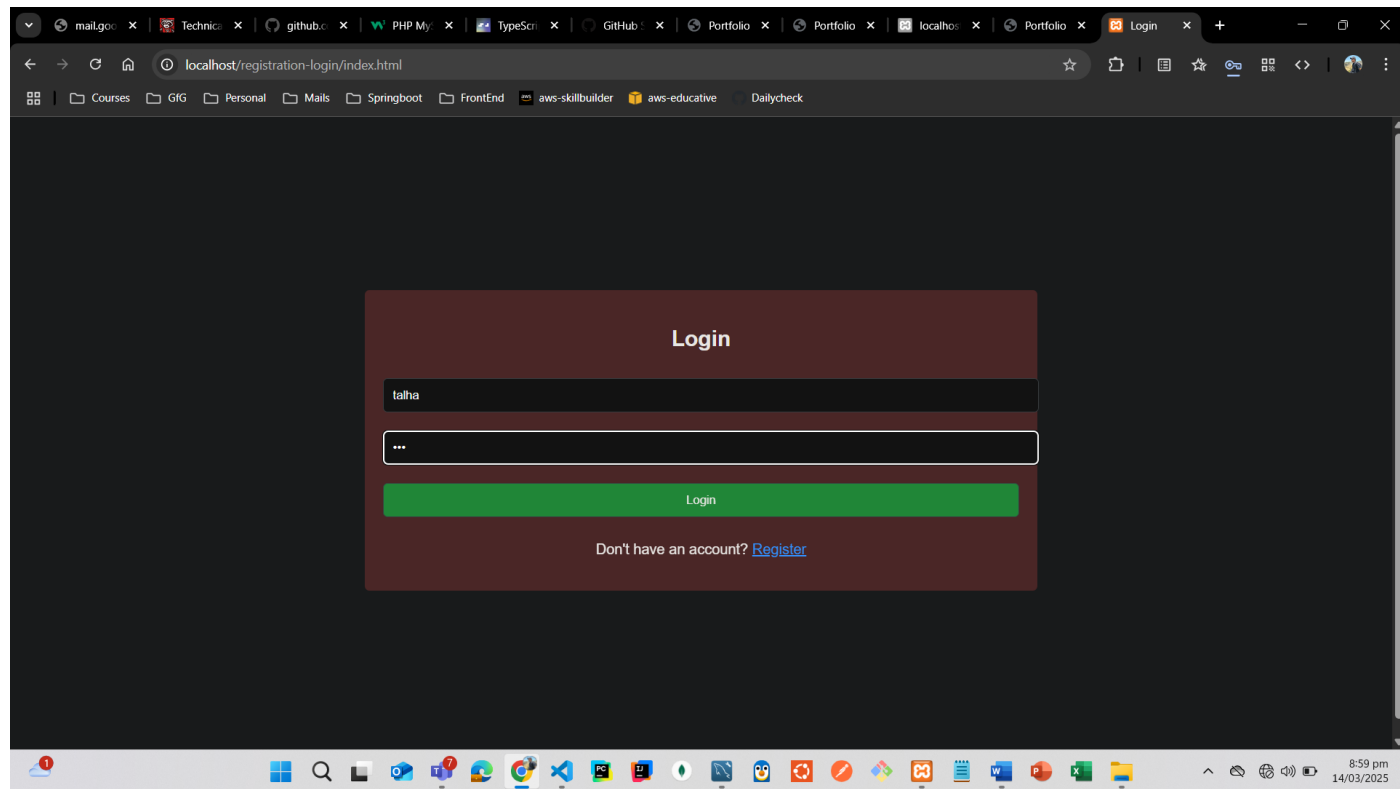
Checking in Database:

8 • `select * from users;`

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: [A](#)

	id	username	email	password
▶	1	umar.ali	umarrali.pk@gmail.com	\$2y\$10\$pZkdgkds8kn4tIpT1UtbmevNyjJq/Y.5Q...
	2	umar4245	umar4245@gmail.com	\$2y\$10\$daCXQU4etVHCDaegie8veBBzHCFq7...
	3	talha	talha@gmail.com	\$2y\$10\$sbkwvFzMdSZwumrnCdZX7uMUSzwF.7...
★	NULL	NULL	NULL	NULL

Trying Newly Created User:



Output:

