

# INDIAN INSTITUTE OF TECHNOLOGY PATNA

**CS260 - DATABASE LAB**

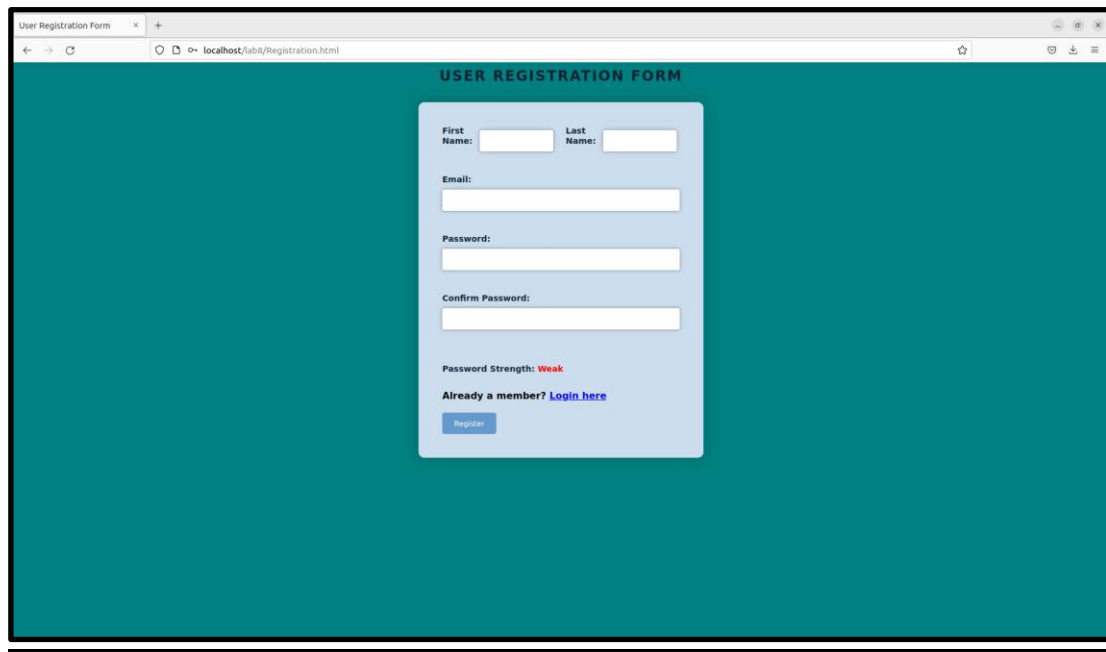
## **Assignment - 8**

**NAME - NIKHIL PATHAK**

**ROLL NO. - 2101CS50**

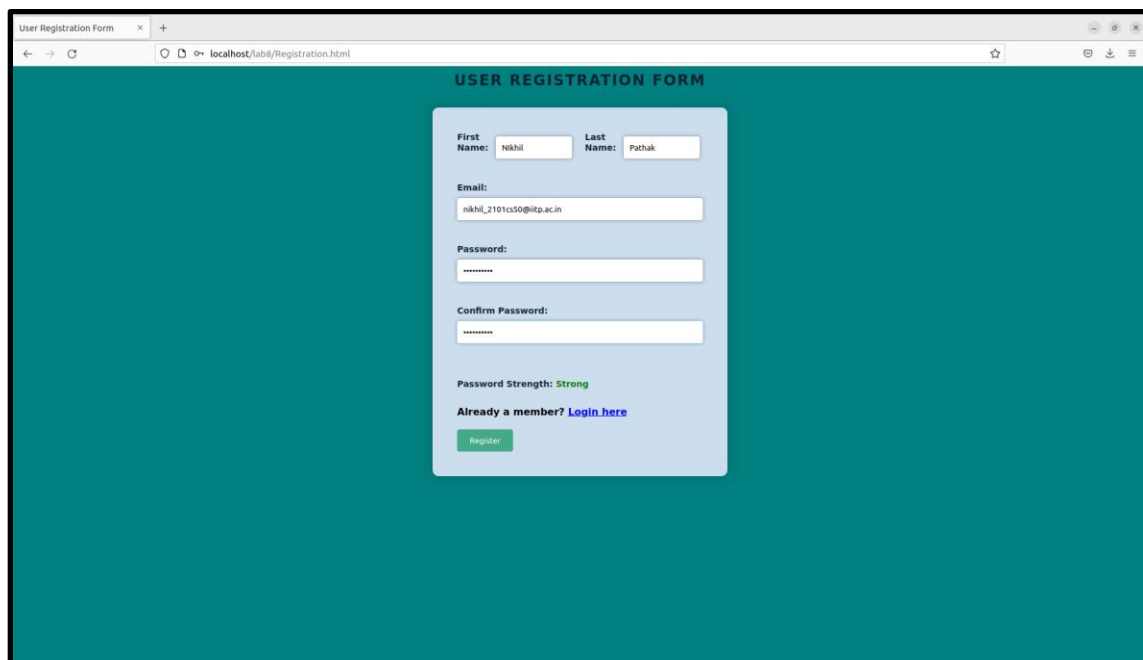
**DATE - 02/04/2023**

# 1. REGISTRATION:



A screenshot of a web browser window displaying a "User Registration Form". The browser's address bar shows "localhost/lab8/Registration.html". The form is centered on a teal background. It contains the following fields: "First Name:" and "Last Name:" (both empty), "Email:" (empty), "Password:" (empty), and "Confirm Password:" (empty). Below these fields, the "Password Strength:" is indicated as "Weak" in red text. At the bottom of the form, there is a link "Already a member? [Login here](#)" and a blue "Register" button.

**Fig1: Registration Form**



A screenshot of the same web browser window, but now the "User Registration Form" is filled with sample data. The "First Name:" field contains "nikhil" and the "Last Name:" field contains "Pathak". The "Email:" field contains "nikhil\_2101cs10@iitp.ac.in". The "Password:" and "Confirm Password:" fields are filled with "\*\*\*\*\*". The "Password Strength:" is now indicated as "Strong" in green text. The "Register" button has changed from blue to green.

**Fig2: Filling Registration Form**

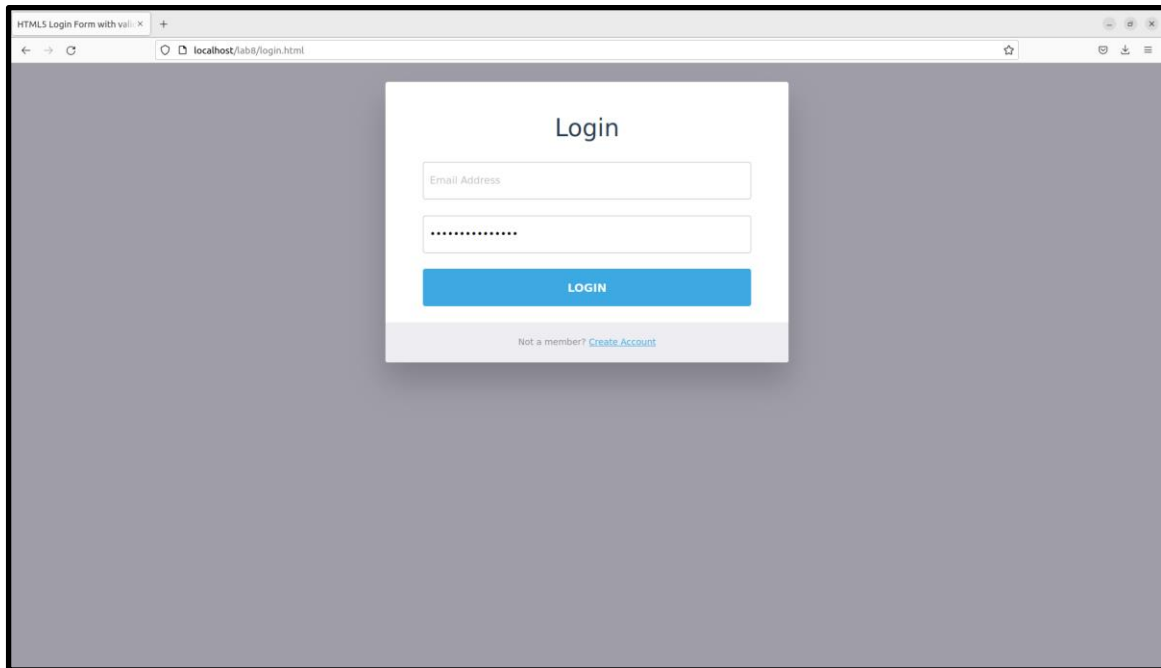


**Fig3: Registration of User completed**

## **2. Login Form:**

A screenshot of a web browser window. The address bar shows 'localhost/lab8/login.html'. The page displays a login form with the title 'Login'. The form contains two input fields: 'Email Address' and 'Password'. Below these fields is a blue button labeled 'LOGIN'. At the bottom of the form, there is a link that says 'Not a member? [Create Account](#)'. The browser's tab is labeled 'HTML5 Login Form with val... X'.

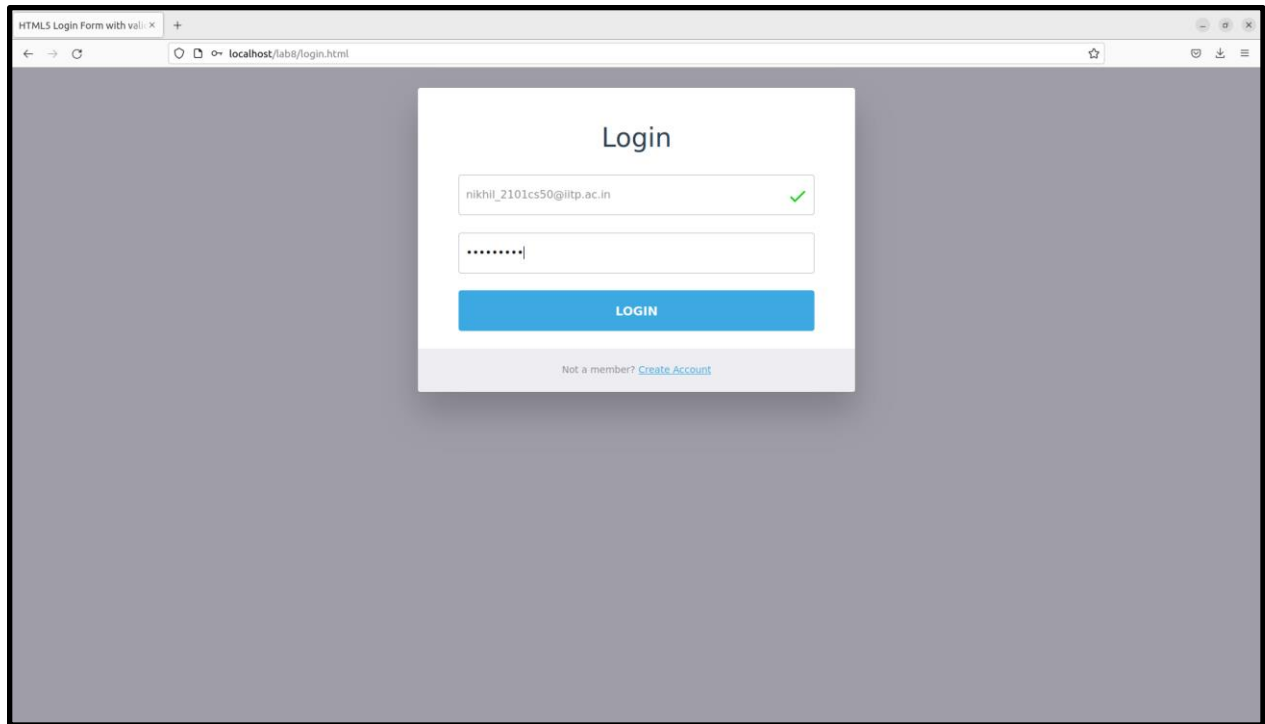
**Fig4: Login Form**



**Fig5: Wrong Login informations**



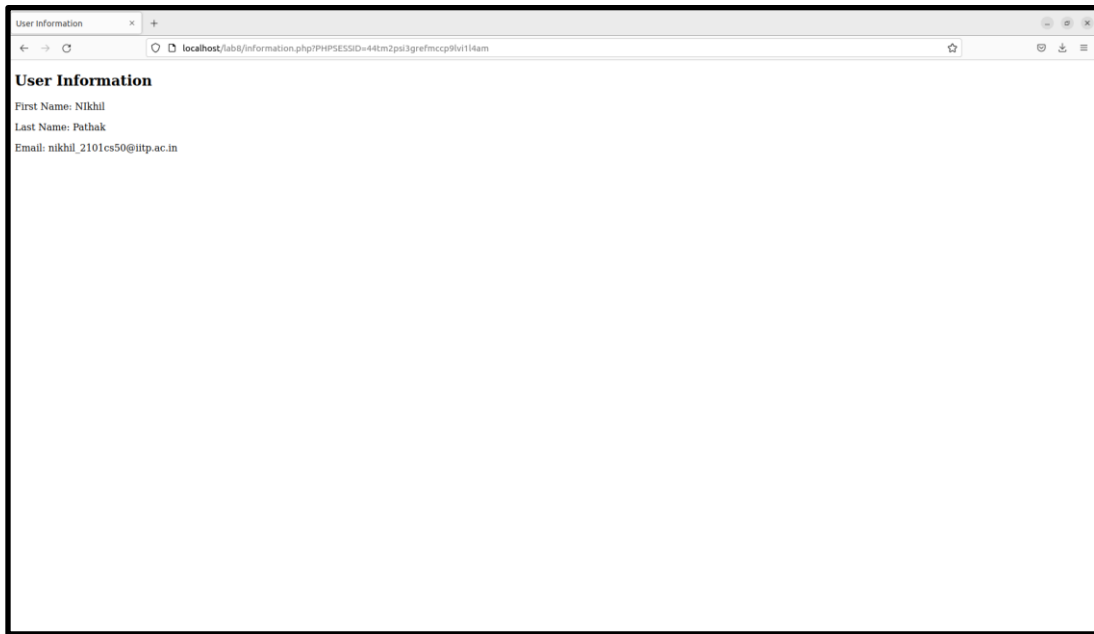
**Fig6: Error Message on wrong login informations**



**Fig7: Filling valid login information**



**Fig8: Welcome Page appears on clicking login button**



**Fig9: Viewing User Information**

### **3. UPDATE INFO FORM:**

A screenshot of a web browser window titled "Update Information". The address bar shows the URL "localhost/lab8/update.html". The page content displays a form titled "Update Information" with the following fields:

**Update Information**

First Name:

Last Name:

Email:

Password:

Confirm Password:

**Fig10: Update Info Form**

localhost/lab8/update.html

### Update Information

First Name:

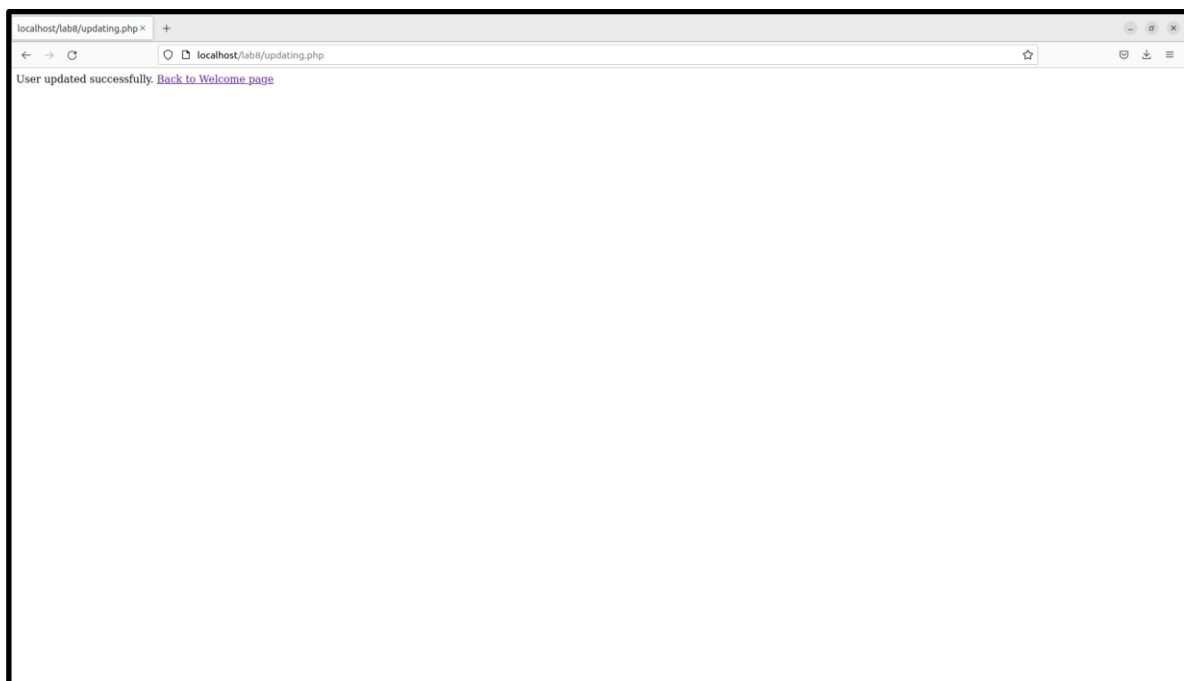
Last Name:

Email:

Password:

Confirm Password:

**Fig11: Filing Update Info Form**



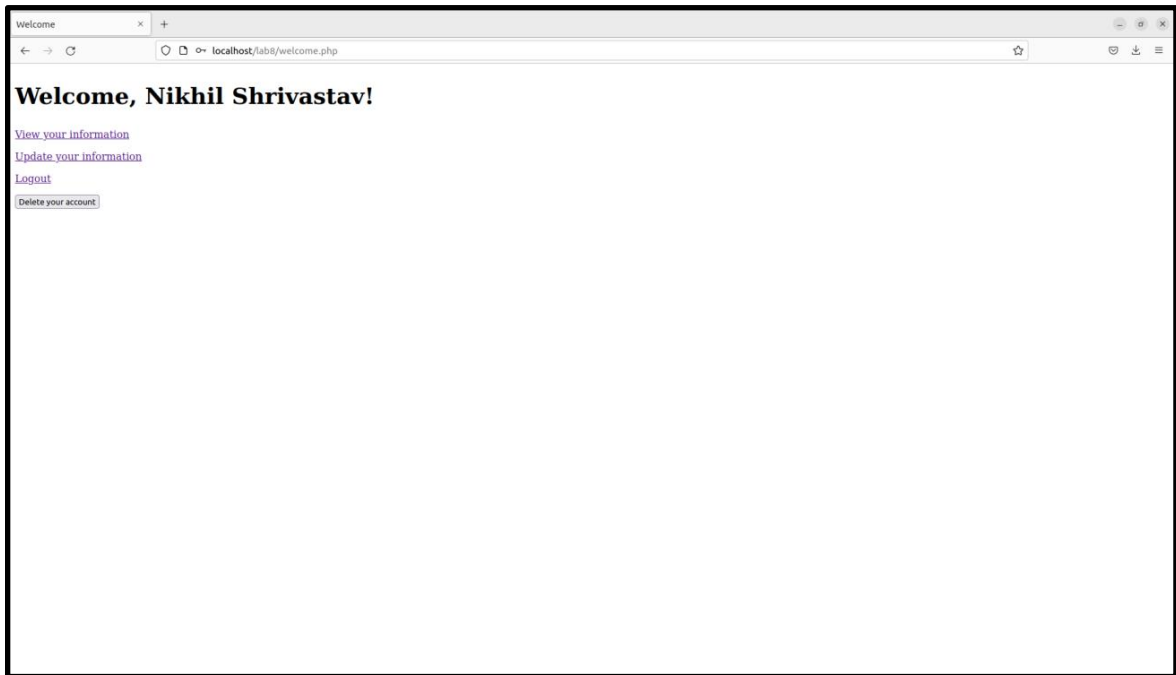
**Fig12: User Info Updated**



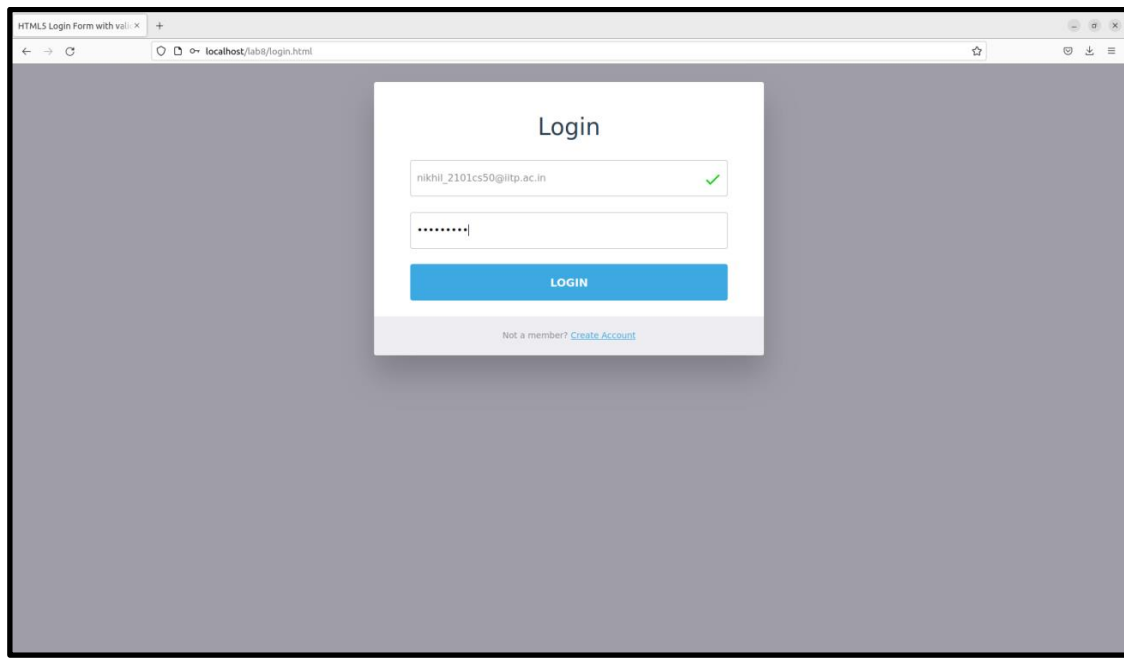
**Fig13: As you can see user information changed**



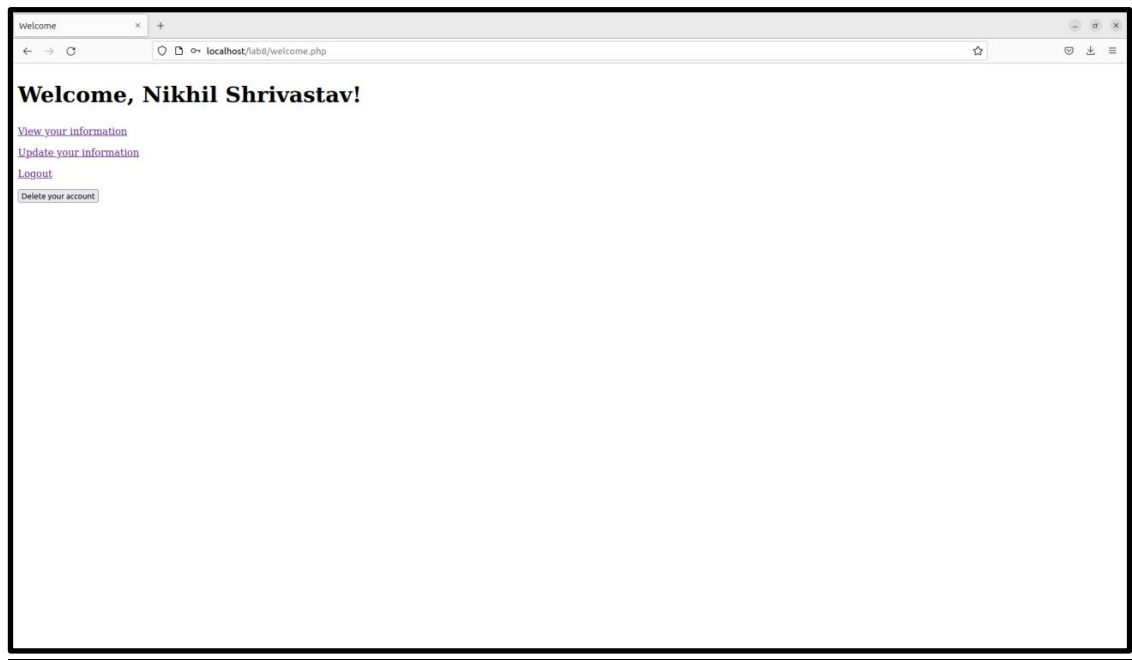
## 4. LOG OUT:



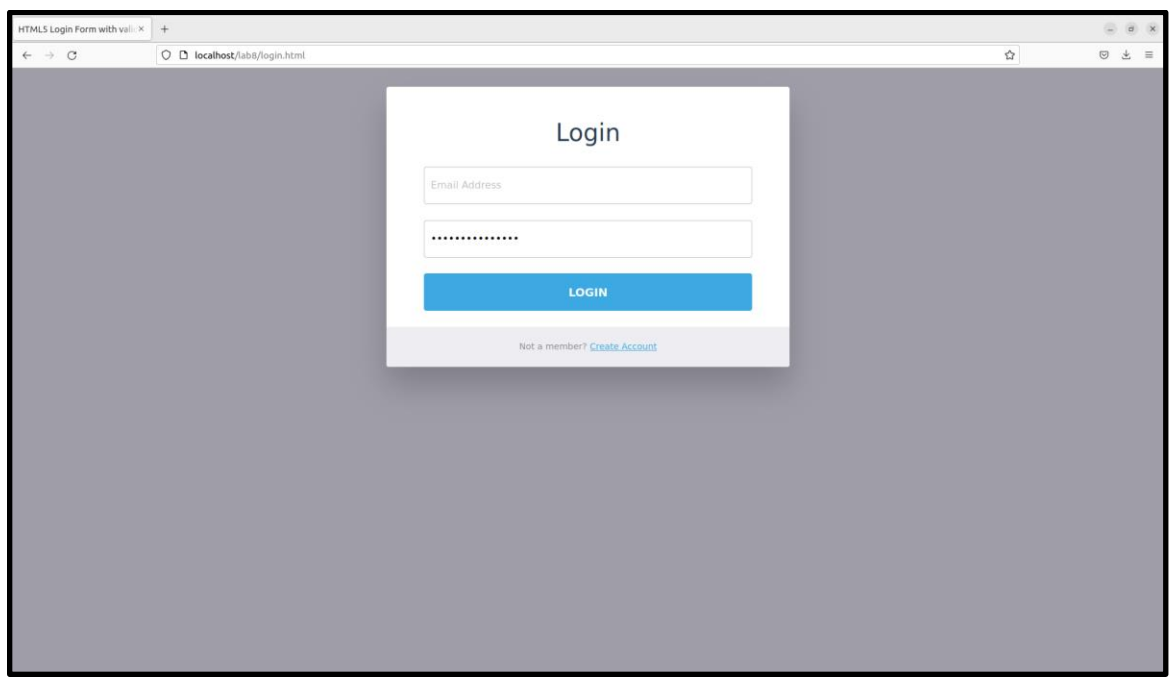
**Fig14: On clicking logout user will jumps to login page**



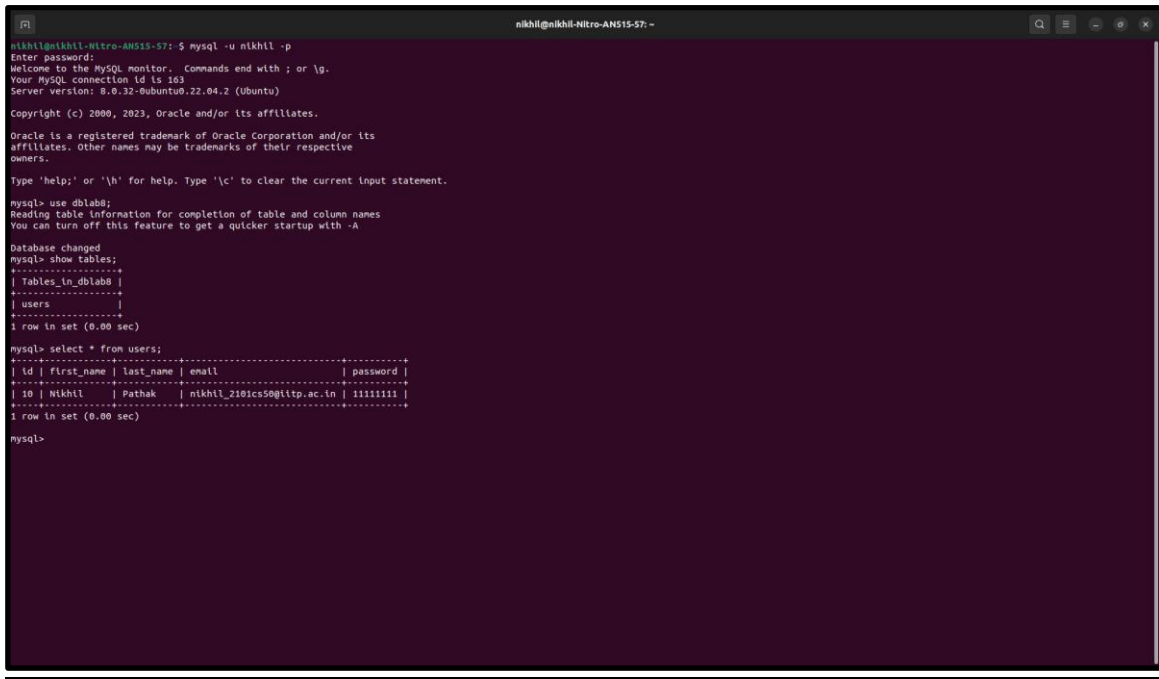
## 5. Deletion:



**Fig15: Again on deletion of account the user will jumps to login page**



## 6. MYSQL CONNECTION:



```
nikhil@nikhil-Nitro-ANS15-S7: ~$ mysql -u nikhil -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 163
Server version: 8.0.32-0ubuntu0.22.04.2 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

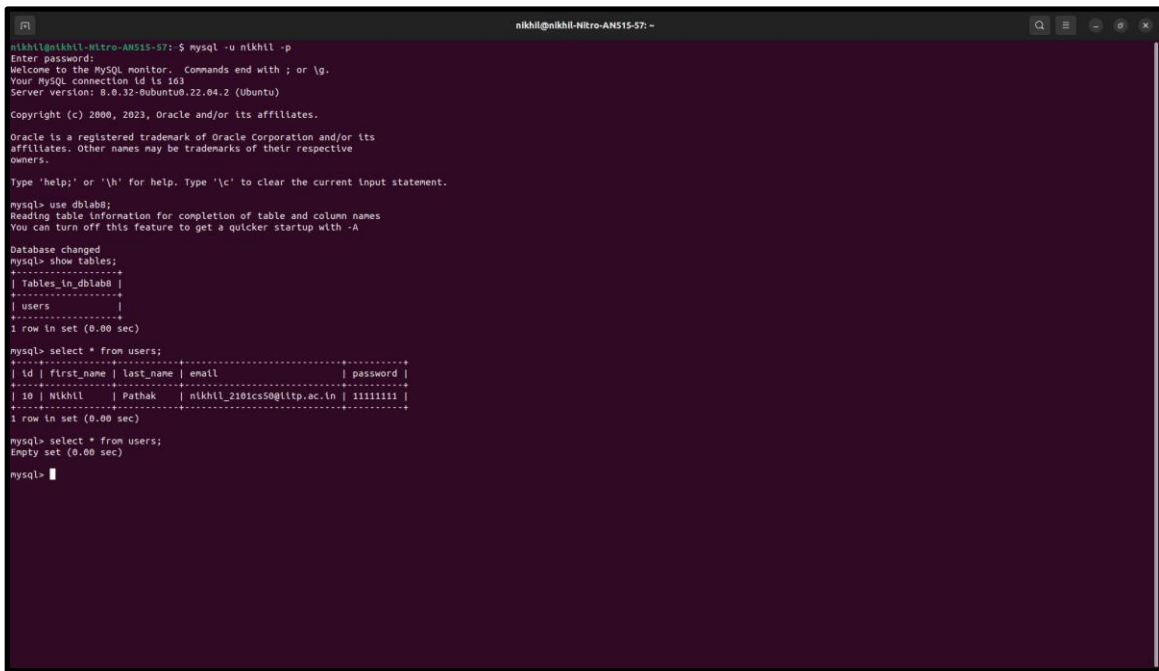
mysql> use dblab8;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-----+
| Tables_in_dblab8 |
+-----+
| users            |
+-----+
1 row in set (0.00 sec)

mysql> select * from users;
+----+-----+-----+-----+-----+
| id | first_name | last_name | email | password |
+----+-----+-----+-----+-----+
| 10 | Nikhil    | Pathak   | nikhil_2101cs50@ltp.ac.in | 11111111 |
+----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```

**Fig16: Before Deletion of user account**



```
nikhil@nikhil-Nitro-ANS15-S7: ~$ mysql -u nikhil -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 163
Server version: 8.0.32-0ubuntu0.22.04.2 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use dblab8;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-----+
| Tables_in_dblab8 |
+-----+
| users            |
+-----+
1 row in set (0.00 sec)

mysql> select * from users;
+----+-----+-----+-----+-----+
| id | first_name | last_name | email | password |
+----+-----+-----+-----+-----+
| 10 | Nikhil    | Pathak   | nikhil_2101cs50@ltp.ac.in | 11111111 |
+----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select * from users;
Empty set (0.00 sec)

mysql>
```

**Fig17: After Deletion of user account**

# ALL REQUIRED CODES

## 1. Registration.html

```
<!DOCTYPE html>
<html>
<head>
  <title>User Registration Form</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <h2 style="font-weight: bold;">User Registration Form</h2>
  <form method="post" action="Registration.php">
    <div style="display: flex; justify-content: space-between;">
      <div style="width: 48%;">
        <label for="fname" style="font-weight: bold; display: inline-block;
width: 30%;">First Name:</label>
        <input type="text" id="fname" name="fname" required
style="display: inline-block; width: 65%;"><br><br>
      </div>
      <div style="width: 48%;">
        <label for="lname" style="font-weight: bold; display: inline-block;
width: 30%;">Last Name:</label>
        <input type="text" id="lname" name="lname" required
style="display: inline-block; width: 65%;"><br><br>
      </div>
    </div>
    <label for="email" style="font-weight: bold;">Email:</label>
    <input type="email" id="email" name="email" required><br><br>
    <label for="password" style="font-weight: bold;">Password:</label>
    <input type="password" id="password" name="password" minlength="8"
required><br><br>
```

```
<label for="confirm_password" style="font-weight: bold;">Confirm
Password:</label>
<input type="password" id="confirm_password"
name="confirm_password" minlength="8" required><br>
<span id="password_error" style="color: red;"></span><br><br>
<label for="password_strength" style="font-weight: bold;">Password
Strength: <span id="password_strength"></span></label><br>
<span style="font-weight: bold;">Already a member? <a href="login.html"
style="color: blue;">Login here</a></span><br><br>
<input type="submit" value="Register">
</form>
```

```
<script>
// Check if password and confirm password fields match
var password = document.getElementById("password");
var confirm_password = document.getElementById("confirm_password");
var password_error = document.getElementById("password_error");

function validatePassword(){
if(password.value != confirm_password.value) {
    confirm_password.setCustomValidity("Password and Confirm
Password fields must match.");
    password_error.textContent = "Password and Confirm Password
fields must match.";
} else {
    confirm_password.setCustomValidity("");
    password_error.textContent = "";
}
}
```

```
password.onchange = validatePassword;
confirm_password.onkeyup = validatePassword;
```

```
// Check password strength
var password_strength = document.getElementById("password_strength");
var password = document.getElementById("password");
```

```

password.addEventListener('keyup', function(){
    var password_value = password.value;
    var password_strength_text = "";
    var regex_strong = /^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)(?=.*[@$!%*?&])[A-Za-z\d@$!%*?&]{8,}$/;
    var regex_medium = /^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)[A-Za-z\d]{8,}$/;

    if (regex_strong.test(password_value)) {
        password_strength_text = "Strong";
        password_strength.style.color = "green";
    } else if (regex_medium.test(password_value)) {
        password_strength_text = "Medium";
        password_strength.style.color = "orange";
    } else {
        password_strength_text = "Weak";
        password_strength.style.color = "red";
    }

    password_strength.textContent = password_strength_text;
});
</script>
</body>

```

## **2. Registration.php**

```

<?php
//connect to MySQL database
$servername = "localhost";
$username = "nikhil";
$password = "nikhil111";
$dbname = "dblab8";
$conn = new mysqli($servername, $username, $password, $dbname);
//check for connection errors
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

```

```

//get user input data
$fname = $_POST['fname'];
$lname = $_POST['lname'];
$email = $_POST['email'];
$password = $_POST['password'];
$confirm_password = $_POST['confirm_password'];

//validate user input data
if (empty($fname) || empty($lname) || empty($email) || empty($password) ||
empty($confirm_password)) {
    echo "All fields are required.";
} elseif (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
    echo "Invalid email format.";
} elseif (strlen($password) < 8) {
    echo "Password must be at least 8 characters long.";
} elseif ($password !== $confirm_password) {
    echo "Password and Confirm Password fields must match.";
} else {

    //insert user data into MySQL database
    $sql = "INSERT INTO users (first_name, last_name, email, password)
VALUES ('$fname', '$lname', '$email', '$password')";

    if ($conn->query($sql) === TRUE) {
        echo "User registration successful.";
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
}

$conn->close();
?>

```

### **3. style.css (for registration form)**

```
/* Body styling */
body {
  font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
  background: #008080;
}

/* Form styling */
form {
  width: 400px;
  margin: 30px auto;
  background: #cde;
  padding: 40px;
  border-radius: 10px;
  box-shadow: 0px 0px 20px 0px rgba(0, 0, 0, 0.2);
}

h2 {
  text-align: center;
  margin: 0 0 30px;
  color: #123;
  text-transform: uppercase;
  letter-spacing: 2px;
  font-weight: normal;
}

label {
  display: block;
  margin-bottom: 8px;
  color: #123;
  font-size: 14px;
}

input[type="text"],
input[type="email"],
input[type="password"] {
  width: 100%;
  padding: 10px;
```



```
border: none;
border-radius: 4px;
box-sizing: border-box;
margin-bottom: 20px;
box-shadow: 0px 0px 5px 0px rgba(0, 0, 0, 0.4);
}
```

```
input[type="text"]:focus,
input[type="email"]:focus,
input[type="password"]:focus {
  outline: none;
  box-shadow: 0px 0px 5px 0px #69c;
}
```

```
input[type="submit"] {
  background-color: #69c;
  color: #fff;
  padding: 10px 20px;
  border: none;
  border-radius: 4px;
  cursor: pointer;
  transition: background-color 0.2s ease-in-out;
}
```

```
input[type="submit"]:hover {
  background-color: #4a8;
}
```

```
.password-strength-meter {
  margin: 20px 0;
  height: 10px;
  position: relative;
}
```

```
.password-strength-meter div {
  height: 100%;
  width: 0%;
  position: absolute;
  top: 0;
  left: 0;
```

```
background: #ddd;
}

.password-strength-meter .weak {
width: 33.33%;
background: #f84b31;
}

.password-strength-meter .medium {
width: 66.66%;
background: #f8cb31;
}

.password-strength-meter .strong {
width: 100%;
background: #5eba5e;
}

.error-message {
color: #f84b31;
margin-bottom: 20px;
}
```

## 4. Login.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>HTML5 Login Form with validation Example</title>
  <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.min.css">
  <link rel="stylesheet" href="./style3.css">
</head>
<body>
  <div id="login-form-wrap">
    <h2>Login</h2>
    <form id="login-form" action="login.php" method="post">
```

```

        <p>
        <input type="email" id="email" name="email" placeholder="Email
Address" required>
        <i class="validation"><span></span><span></span></i>
        </p>
        <p>
        <input type="password" id="password" name="password"
placeholder="Password" required>
        <i class="validation"><span></span><span></span></i>
        </p>
        <p>
        <input type="submit" id="login" value="Login">
        </p>
        </form>
        <div id="create-account-wrap">
        <p>Not a member? <a href="Registration.html">Create Account</a></p>
        </div><!--create-account-wrap-->
    </div><!--login-form-wrap-->
</body>
</html>

```

## 5. Login.php

```

<?php
// Database configuration
$host = "localhost";
$username = "nikhil";
$password = "nikhil111";
$dbname = "dblab8";

// Create a database connection
$conn = mysqli_connect($host, $username, $password, $dbname);

// Check the connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

// Process form submission

```

```

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

    // Query the database to check if the user exists and has entered the correct
password
    $query = "SELECT * FROM users WHERE email = '$email' AND password =
'$password'";
    $result = mysqli_query($conn, $query);

    if (mysqli_num_rows($result) > 0) {
        // User exists and password is correct, store user information in session and
redirect to welcome page
        session_start();
        $user = mysqli_fetch_assoc($result);
        $_SESSION['email'] = $user['email'];
        $_SESSION['first_name'] = $user['first_name'];
        $_SESSION['last_name'] = $user['last_name'];
        header("Location: welcome.php");
        exit();
    } else {
        // Invalid email or password, display error message
        echo "Invalid email address or password.";
    }
}

// Close the database connection
mysqli_close($conn);
?>

```

## **6. style3.css (for login form)**

```

body {
    background-color: #9f9da7;
    font-size: 1.6rem;
    font-family: "Open Sans", sans-serif;
    color: #2b3e51;
}

```

```
h2 {  
  font-weight: 300;  
  text-align: center;  
}
```

```
p {  
  position: relative;  
}
```

```
a,  
a:link,  
a:visited,  
a:active {  
  color: #3ca9e2;  
  -webkit-transition: all 0.2s ease;  
  transition: all 0.2s ease;  
}  
a:focus, a:hover,  
a:link:focus,  
a:link:hover,  
a:visited:focus,  
a:visited:hover,  
a:active:focus,  
a:active:hover {  
  color: #329dd5;  
  -webkit-transition: all 0.2s ease;  
  transition: all 0.2s ease;  
}
```

```
#login-form-wrap {  
  background-color: #fff;  
  width: 35%;  
  margin: 30px auto;  
  text-align: center;  
  padding: 20px 0 0 0;  
  border-radius: 4px;  
  box-shadow: 0px 30px 50px 0px rgba(0, 0, 0, 0.2);  
}
```

```
}
```

```
#login-form {  
  padding: 0 60px;  
}
```

```
input {  
  display: block;  
  box-sizing: border-box;  
  width: 100%;  
  outline: none;  
  height: 60px;  
  line-height: 60px;  
  border-radius: 4px;  
}
```

```
#login-form input[type="password"] {  
  width: 100%;  
  font-size: 16px;  
  padding: 0 0 0 10px;  
  margin: 0;  
  border: 1px solid #c2c0ca;  
  background: none;  
  text-align: left;  
}
```

```
input[type="text"],  
input[type="email"] {  
  width: 100%;  
  padding: 0 0 0 10px;  
  margin: 0;  
  color: #8a8b8e;  
  border: 1px solid #c2c0ca;  
  font-style: normal;  
  font-size: 16px;  
  -webkit-appearance: none;
```

```
        -moz-appearance: none;
        appearance: none;
    position: relative;
    display: inline-block;
    background: none;
}
input[type="text"]:focus,
input[type="email"]:focus {
    border-color: #3ca9e2;
}
input[type="text"]:focus:invalid,
input[type="email"]:focus:invalid {
    color: #cc1e2b;
    border-color: #cc1e2b;
}
input[type="text"]:valid ~ .validation,
input[type="email"]:valid ~ .validation {
    display: block;
    border-color: #0C0;
}
input[type="text"]:valid ~ .validation span,
input[type="email"]:valid ~ .validation span {
    background: #0C0;
    position: absolute;
    border-radius: 6px;
}
input[type="text"]:valid ~ .validation span:first-child,
input[type="email"]:valid ~ .validation span:first-child {
    top: 30px;
    left: 14px;
    width: 20px;
    height: 3px;
    -webkit-transform: rotate(-45deg);
    transform: rotate(-45deg);
}
input[type="text"]:valid ~ .validation span:last-child,
input[type="email"]:valid ~ .validation span:last-child {
```

```
top: 35px;
left: 8px;
width: 11px;
height: 3px;
-webkit-transform: rotate(45deg);
    transform: rotate(45deg);
}
```

```
.validation {
    display: none;
    position: absolute;
    content: " ";
    height: 60px;
    width: 30px;
    right: 15px;
    top: 0px;
}
```

```
input[type="submit"] {
    border: none;
    display: block;
    background-color: #3ca9e2;
    color: #fff;
    font-weight: bold;
    text-transform: uppercase;
    cursor: pointer;
    -webkit-transition: all 0.2s ease;
    transition: all 0.2s ease;
    font-size: 18px;
    position: relative;
    display: inline-block;
    cursor: pointer;
    text-align: center;
}
input[type="submit"]:hover {
    background-color: #329dd5;
    -webkit-transition: all 0.2s ease;
```



```
    transition: all 0.2s ease;
}

#create-account-wrap {
    background-color: #eedf1;
    color: #8a8b8e;
    font-size: 14px;
    width: 100%;
    padding: 10px 0;
    border-radius: 0 0 4px 4px;
}
```

## **7. update.html**

```
<!DOCTYPE html>
<html>
<head>
<title>Update Information</title>
<link rel="stylesheet" href="style2.css">
</head>
<body>
<h2>Update Information</h2>
<form action="updating.php" method="post">
<label for="first_name">First Name:</label>
<input type="text" id="first_name" name="first_name" value=""
required><br><br>
<label for="last_name">Last Name:</label>
<input type="text" id="last_name" name="last_name" value=""
required><br><br>
<label for="email">Email:</label>
<input type="email" id="email" name="email" value="" required><br><br>
<label for="password">Password:</label>
<input type="password" id="password" name="password" required><br><br>
<label for="confirm_password">Confirm Password:</label>
<input type="password" id="confirm_password" name="confirm_password"
required><br><br>
```

```
<input type="submit" name="submit" value="Update">
</form>
</body>
</html>
```

## **8. updating.php**

```
<?php
// Start the session
session_start();

// Check if the user is logged in
if (!isset($_SESSION["email"])) {
    header("Location: login.php");
    exit();
}

// Connect to the database
$servername = "localhost";
$username = "nikhil";
$password = "nikhil111";
$dbname = "dblab8";
$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Check if the form has been submitted
if (isset($_POST["submit"])) {
    // Get the updated user information
    $first_name = $_POST["first_name"];
    $last_name = $_POST["last_name"];
    $email = $_POST["email"];
    $password = $_POST["password"];
```

```

// Update the user in the database
$sql = "UPDATE users SET first_name='$first_name', last_name='$last_name',
email='$email', password='$password' WHERE email='$email'";
if ($conn->query($sql) === TRUE) {
    // Store the updated user information in the session
    $_SESSION["first_name"] = $first_name;
    $_SESSION["last_name"] = $last_name;
    $_SESSION["email"] = $email;
    // Print a success message
    echo "User updated successfully. <a href='welcome.php'>Back to Welcome
page</a>";

} else {
    echo "Error updating user: " . $conn->error;
}
}

// Close the database connection
$conn->close();
?>

```

## **9. style2.css (for updation form)**

```

body {
    font-family: Arial, sans-serif;
    background-color: #123123;
}

h2 {
    text-align: center;
    margin-top: 30px;
}

form {

```

```
margin: 0 auto;
width: 400px;
padding: 20px;
background-color: #aaa;
border-radius: 5px;
box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);
}
```

```
label {
  display: block;
  margin-bottom: 10px;
  font-weight: bold;
}
```

```
input[type="text"],
input[type="email"],
input[type="password"] {
  display: block;
  width: 90%;
  padding: 10px;
  margin-bottom: 20px;
  border-radius: 5px;
  border: 1px solid #ccc;
}
```

```
input[type="submit"] {
  background-color: #4CAF50;
  color: #fff;
  border: none;
  border-radius: 5px;
  padding: 10px;
  cursor: pointer;
  font-size: 16px;
  margin-top: 20px;
}
```

```
input[type="submit"]:hover {
```

```
background-color: #3e8e41;
}
```

## 10. welcome.php

```
<?php
session_start();

// Check if user is logged in
if (!isset($_SESSION['email'])) {
    header("Location: login.html");
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Welcome</title>
</head>
<body>
    <span style="font-size: 24px;"><h2>Welcome, <?php echo
$_SESSION['first_name'] . ' ' . $_SESSION['last_name']; ?>!</h2></span>
    <p><a href="information.php?PHPSESSID=<?php echo session_id(); ?>">View
your information</a></p>
    <p><a href="update.html">Update your information</a></p>
    <p><a href="logout.php">Logout</a></p>
    <p><form method="post" action="delete.php">
        <input type="hidden" name="PHPSESSID" value="<?php echo
session_id(); ?>">
        <input type="submit" value="Delete your account">
    </form></p>

</body>
</html>
```

## 11. information.php

```
<?php
// Start a session to store user data
session_start();
// Check if the user is logged in, redirect to login page if not
if (!isset($_SESSION['email'])) {
    header('Location: login.php');
    exit();
}
// Connect to the database
$servername = "localhost";
$username = "nikhil";
$password = "nikhil111";
$dbname = "dblab8";
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
// Get user information from the database
$email = $_SESSION['email'];
$sql = "SELECT * FROM users WHERE email = '$email'";
$result = $conn->query($sql);
// Check if any rows were returned
if ($result->num_rows > 0) {
    // Output user information
    $row = $result->fetch_assoc();
    $first_name = $row["first_name"];
    $last_name = $row["last_name"];
    $email = $row["email"];
} else {
    echo "No data found";
}
// Close the database connection
$conn->close();
```

```
?>
<!DOCTYPE html>
<html>
<head>
  <title>User Information</title>
</head>
<body>
  <h2>User Information</h2>
  <p>First Name: <?php echo $first_name; ?></p>
  <p>Last Name: <?php echo $last_name; ?></p>
  <p>Email: <?php echo $email; ?></p>
</body>
</html>
```

## 12. logout.php

```
<?php
session_start();
session_destroy();
header("Location: login.html");
exit();
?>
```

## 13. delete.php

```
<?php
// Start the session
session_start();

// Check if the user is logged in
if (!isset($_SESSION["email"])) {
  header("Location: welcome.php");
  exit();
}
// Connect to the database
$servername = "localhost";
```

```
$username = "nikhil";  
$password = "nikhil111";  
$dbname = "dblab8";  
$conn = new mysqli($servername, $username, $password, $dbname);  
  
// Check connection  
if ($conn->connect_error) {  
    die("Connection failed: " . $conn->connect_error);  
}  
  
// Delete the user from the database  
$email = $_SESSION['email'];  
$sql = "DELETE FROM users WHERE email='$email'";  
$conn->query($sql);  
  
// Close the database connection  
$conn->close();  
echo "Account deleted successfully";  
// Destroy the session and redirect to the login page  
session_destroy();  
header("Location: login.html");  
exit();  
?>
```

**\*\*\*\*\***