**Signup.php**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>User Registration</title>

    <script>

        function validateForm() {

            // Client-side validation example (you may need to add more validation)

            var username = document.forms["signupForm"]["username"].value;

            var email = document.forms["signupForm"]["email"].value;

            var password = document.forms["signupForm"]["password"].value;

            if (username == "" || email == "" || password == "") {

                alert("All fields must be filled out");

                return false;

            }

            return true;

        }

    </script>

</head>

<body>

    <h2>Sign Up</h2>

    <div class="container">

    <form action="register.php" method="post" enctype="multipart/form-data" onsubmit="return validateForm()" name="signupForm">

        <label for="username">Username:</label>

        <input type="text" name="username" required>

        <label for="email">Email:</label>

        <input type="email" name="email" required>

        <label for="password">Password:</label>

        <input type="password" name="password" required>

        <label for="profile\_picture">Profile Picture:</label>

        <input type="file" name="profile\_picture" accept="image/\*">

        <input type="submit" value="Register">

    </form>

    </div>

</body>

</html>

**Register.php**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Register Page</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            background-color: #f5f5f5;

            margin: 0;

            padding: 0;

            display: flex;

            justify-content: center;

            align-items: center;

            height: 100vh;

        }

        .btn {

            display: inline-block;

            padding: 10px 20px;

            background-color: #3498db;

            color: #fff;

            text-decoration: none;

            border-radius: 4px;

            transition: background-color 0.3s;

        }

        .btn:hover {

            background-color: #2980b9;

        }

    </style>

</head>

<body>

<?php

// Include the file for database connection

require\_once('db\_connection.php');

if ($\_SERVER['REQUEST\_METHOD'] == 'POST') {

    // Retrieve user input from the signup form

    $username = $\_POST['username'];

    $email = $\_POST['email'];

    $password = $\_POST['password'];

    // Perform server-side validation

    if (empty($username) || empty($email) || empty($password)) {

        echo "All fields are required.";

        exit();

    }

    // Check for existing username or email

    $query = "SELECT \* FROM users WHERE username = ? OR email = ?";

    $stmt = $conn->prepare($query);

    $stmt->bind\_param("ss", $username, $email);

    $stmt->execute();

    $result = $stmt->get\_result();

    if ($result->num\_rows > 0) {

        echo "Username or email already exists. Please choose a different one.";

        exit();

    }

    $hashed\_password = password\_hash($password, PASSWORD\_BCRYPT);

    // Insert user data into the database

    $insert\_query = "INSERT INTO users (username, email, password) VALUES (?, ?, ?)";

    $insert\_stmt = $conn->prepare($insert\_query);

    $insert\_stmt->bind\_param("sss", $username, $email, $hashed\_password);

    if ($insert\_stmt->execute()) {

        echo "Registration successful!";

    } else {

        echo "Error during registration: " . $insert\_stmt->error;

    }

    // Close statements and the database connection

    $insert\_stmt->close();

    $stmt->close();

    $conn->close();

} else {

    // Redirect to the signup page if accessed directly

    header("Location: signup.php");

    exit();

}

?>

<button class="btn"><a href="login.php">Login Now</a></button>

</body>

</html>

**Login.php**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>User Login</title>

    <script>

        function validateForm() {

            // Client-side validation example (you may need to add more validation)

            var username = document.forms["loginForm"]["username"].value;

            var password = document.forms["loginForm"]["password"].value;

            if (username == "" || password == "") {

                alert("Both username and password are required.");

                return false;

            }

            // You can add more validation rules as needed

            return true;

        }

    </script>

</head>

<body>

    <h2>Login</h2>

    <div class="container">

        <form action="authenticate.php" method="post" onsubmit="return validateForm()" name="loginForm">

            <label for="username">Username:</label>

            <input type="text" name="username" required>

            <label for="password">Password:</label>

            <input type="password" name="password" required>

            <input type="submit" value="Login">

        </form>

    </div>

</body>

</html>

**Authenticate.php**

<?php

// authenticate.php

// Include the file for database connection

require\_once('db\_connection.php');

if ($\_SERVER['REQUEST\_METHOD'] == 'POST') {

    // Retrieve user input from the login form

    $username = $\_POST['username'];

    $password = $\_POST['password'];

    // Perform server-side validation

    if (empty($username) || empty($password)) {

        echo "Both username and password are required.";

        exit();

    }

    // Retrieve hashed password and id from the database based on the username

    $query = "SELECT id, username, password FROM users WHERE username = ?";

    $stmt = $conn->prepare($query);

    $stmt->bind\_param("s", $username);

    $stmt->execute();

    $stmt->bind\_result($id, $db\_username, $hashed\_password);

    if ($stmt->fetch() &&($password === $hashed\_password)) {

        // Authentication successful, start a session and set session variables

        session\_start();

        $\_SESSION['id'] = $id;

        $\_SESSION['username'] = $db\_username;

        // Redirect to the dashboard or any other authenticated page

        header("Location: dashboard.php");

        exit();

    } else {

        // Authentication failed, display an error message

        echo "Invalid username or password!";

    }

    // Close statement and the database connection

    $stmt->close();

    $conn->close();

} else {

    // Redirect to the login page if accessed directly

    header("Location: login.php");

    exit();

}

?>

**Dashboard.php**

<!-- dashboard.php -->

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Dashboard</title>

</head>

<body>

    <?php

    // Start the session

    session\_start();

    // Check for an active session

    if (!isset($\_SESSION['id'])) {

        // Redirect to the login page if the user is not authenticated

        header("Location: login.php");

        exit();

    }

    // Display user-specific content or functionality based on the logged-in user's information

    $id = $\_SESSION['id'];

    $username = $\_SESSION['username'];

    echo "<h2>Welcome to Your Dashboard, $username!</h2> <br>";

    echo "<p>Your User ID: $id</p>";

    //logout session

    echo '<a href="logout.php">Logout</a>';

    ?>

</body>

</html>

**Logout.php**

<?php

// logout.php

// Start the session

session\_start();

// Destroy the active session

session\_destroy();

// Redirect to the login page after logout

header("Location: login.php");

exit();

?>

**Db\_connection.php**

<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "webassignment";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

    die("Connection failed: " . $conn->connect\_error);

}

?>