**PHP Codes**

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CST 499 Capstone for Computer Software Technology

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**Database.php:**

<?php

class DatabaseHandler {

    private $dbHost;

    private $dbUsername;

    private $dbPassword;

    private $dbName;

    private $conn;

    public function \_\_construct($dbHost, $dbUsername, $dbPassword, $dbName) {

        $this->dbHost = $dbHost;

        $this->dbUsername = $dbUsername;

        $this->dbPassword = $dbPassword;

        $this->dbName = $dbName;

        // Create a database connection

        $this->conn = new mysqli($this->dbHost, $this->dbUsername, $this->dbPassword, $this->dbName);

        // Check if connection was successful

        if ($this->conn->connect\_error) {

            // Throw an exception if connection fails

            throw new Exception("Connection failed: " . $this->conn->connect\_error);

        }

    }

    public function executeSelectQuery($sql) {

        $result = $this->conn->query($sql);

        if (!$result) {

            die("Error executing query: " . $this->conn->error);

        }

        $rows = array();

        while ($row = $result->fetch\_assoc()) {

            $rows[] = $row;

        }

        return $rows;

    }

    public function executeQuery($sql) {

        $result = $this->conn->query($sql);

        if (!$result) {

            die("Error executing query: " . $this->conn->error);

        }

        return $this->conn->affected\_rows;

    }

    public function executeInsertQuery($sql) {

        $result = $this->conn->query($sql);

        if (!$result) {

            die("Error executing insert query: " . $this->conn->error);

        }

        return $this->conn->insert\_id; // Return the ID of the last inserted row

    }

}

// Database connection details

$dbHost = "localhost";

$dbUsername = "root";

$dbPassword = "";

$dbName = "landing, login, and enrollment pages development";

// Create an instance of DatabaseHandler

try {

    $databaseHandler = new DatabaseHandler($dbHost, $dbUsername, $dbPassword, $dbName);

} catch (Exception $e) {

    die("Database connection failed: " . $e->getMessage());

}

?>

**Footer.php:**

<footer>

    <Copyright © 2023 My University>

</footer>

**Index.php:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Landing Page</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            margin: 0;

            padding: 0;

        }

        header {

            background-color: #333;

            color: #fff;

            padding: 10px 0;

            text-align: center;

        }

        nav ul {

            list-style-type: none;

            padding: 0;

        }

        nav ul li {

            display: inline;

            margin-right: 20px;

        }

        nav ul li a {

            color: #fff;

            text-decoration: none;

        }

        .hero {

            text-align: center;

            padding: 50px 0;

        }

        .hero h1 {

            font-size: 36px;

            margin-bottom: 20px;

        }

        .hero p {

            font-size: 18px;

            margin-bottom: 20px;

        }

        .btn {

            display: inline-block;

            padding: 10px 20px;

            background-color: #007bff;

            color: #fff;

            text-decoration: none;

            border-radius: 5px;

        }

        .btn:hover {

            background-color: #0056b3;

        }

        .features {

            text-align: center;

            padding: 50px 0;

        }

        .features h2 {

            font-size: 24px;

            margin-bottom: 20px;

        }

        .features ul {

            list-style-type: none;

            padding: 0;

        }

        .features ul li {

            font-size: 18px;

            margin-bottom: 10px;

        }

    </style>

</head>

<body>

    <header>

        <nav>

            <ul>

                <li><a href="index.php">Home</a></li>

                <li><a href="login.php">Login</a></li>

                <li><a href="registration.php">Register</a></li>

            </ul>

        </nav>

    </header>

    <main>

        <section class="hero">

            <h1>Welcome to Our Online Class Platform</h1>

            <p>Enhance your learning experience with our interactive online classes.</p>

            <a href="registration.php" class="btn">Get Started</a>

        </section>

        <section class="features">

            <h2>Key Features</h2>

            <ul>

                <li>Interactive lessons</li>

                <li>Flexible scheduling</li>

                <li>Expert instructors</li>

            </ul>

        </section>

    </main>

    <?php include 'footer.php'; ?>

</body>

</html>

**Login.php:**

<?php

error\_reporting(E\_ALL);

ini\_set('display\_errors', 1);

// Include the database handler

require\_once 'database.php';

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

    // Retrieve form data

    $email = $\_POST["email"];

    $password = $\_POST["password"];

    // Retrieve user data from the database

    $sql = "SELECT \* FROM users WHERE email='$email'";

    $userData = $databaseHandler->executeSelectQuery($sql);

    if (count($userData) == 1) {

        $hashedPassword = $userData[0]['password'];

        // Verify password

        if (password\_verify($password, $hashedPassword)) {

            // Password is correct, set session and redirect to profile page

            session\_start();

            $\_SESSION['user\_id'] = $userData[0]['user\_id'];

            header("Location: profile.php");

            exit();

        } else {

            // Password is incorrect, redirect back to login page with an error message

            header("Location: login.php?error=incorrect\_password");

            exit();

        }

    } else {

        // User not found, redirect back to login page with an error message

        header("Location: login.php?error=user\_not\_found");

        exit();

    }

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Login</title>

    <link rel="stylesheet" href="styles.css">

    <style>

        body {

            font-family: Arial, sans-serif;

            margin: 0;

            padding: 0;

            background-color: #f0f0f0;

        }

        header {

            background-color: #333;

            color: #fff;

            padding: 10px 0;

            text-align: center;

        }

        main {

            padding: 20px;

            text-align: center;

        }

        h1 {

            font-size: 24px;

            margin-bottom: 20px;

        }

        form {

            background-color: #fff;

            padding: 20px;

            border-radius: 5px;

            display: inline-block;

        }

        form label {

            display: block;

            margin-bottom: 10px;

        }

        form input[type="email"],

        form input[type="password"] {

            width: 100%;

            padding: 10px;

            margin-bottom: 20px;

            border: 1px solid #ccc;

            border-radius: 5px;

            box-sizing: border-box;

        }

        form button {

            padding: 10px 20px;

            background-color: #007bff;

            color: #fff;

            border: none;

            border-radius: 5px;

            cursor: pointer;

        }

        form button:hover {

            background-color: #0056b3;

        }

    </style>

</head>

<body>

    <header>

        <!-- Header content here -->

    </header>

    <main>

        <h1>Login</h1>

        <!-- Login form here -->

        <form action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]); ?>" method="post">

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

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

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

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

            <button type="submit">Login</button>

        </form>

    </main>

    <?php include 'footer.php'; ?>

</body>

</html>

**Profile.php:**

<?php

error\_reporting(E\_ALL);

ini\_set('display\_errors', 1);

// Include the database handler

require\_once 'database.php';

// Check if the user is logged in

session\_start();

if (!isset($\_SESSION['user\_id'])) {

    header("Location: login.php");

    exit();

}

// Get the user ID from the session

$userId = $\_SESSION['user\_id'];

// Function to fetch classes registered for a particular user

function getClassesRegisteredForUser($db, $userId) {

    $sql = "SELECT classes.class\_id, classes.class\_name, classes.instructor, classes.schedule

        FROM registrations

        INNER JOIN classes ON registrations.class\_id = classes.class\_id

        WHERE registrations.user\_id = $userId";

    return $db->executeSelectQuery($sql);

}

// Fetch registered classes for the user

$registeredClasses = getClassesRegisteredForUser($databaseHandler, $userId);

// Function to fetch all available classes

function getAllClasses($db) {

    $sql = "SELECT \* FROM classes";

    return $db->executeSelectQuery($sql);

}

// Fetch all available classes

$classes = getAllClasses($databaseHandler);

// Process adding new classes

if ($\_SERVER["REQUEST\_METHOD"] == "POST" && isset($\_POST['add\_class'])) {

    // Retrieve form data

    $classId = $\_POST["class\_id"];

    // Insert the selected class into the registrations table

    $sql = "INSERT INTO registrations (user\_id, class\_id) VALUES ('$userId', '$classId')";

    $databaseHandler->executeQuery($sql);

    // Redirect to avoid form resubmission on page refresh

    header("Location: profile.php");

    exit();

}

// Process deleting classes

if ($\_SERVER["REQUEST\_METHOD"] == "POST" && isset($\_POST['delete\_class'])) {

    // Retrieve form data

    $deleteClassId = $\_POST["delete\_class\_id"];

    // Delete the selected class from the registrations table

    $sql = "DELETE FROM registrations WHERE user\_id = '$userId' AND class\_id = '$deleteClassId'";

    $databaseHandler->executeQuery($sql);

    // Redirect to avoid form resubmission on page refresh

    header("Location: profile.php");

    exit();

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>User Profile</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            margin: 0;

            padding: 0;

            background-color: #f0f0f0;

        }

        header {

            background-color: #333;

            color: #fff;

            padding: 10px 0;

            text-align: center;

        }

        main {

            padding: 20px;

        }

        h1 {

            font-size: 24px;

            margin-bottom: 20px;

            text-align: center;

        }

        ul {

            list-style-type: none;

            padding: 0;

        }

        li {

            background-color: #fff;

            padding: 20px;

            margin-bottom: 20px;

            border-radius: 5px;

        }

        li strong {

            font-weight: bold;

            margin-right: 10px;

        }

        .form-container {

            background-color: #fff;

            padding: 20px;

            margin-top: 20px;

            border-radius: 5px;

        }

        .form-container h2 {

            font-size: 20px;

            margin-bottom: 10px;

        }

        .form-container form label {

            display: block;

            margin-bottom: 10px;

        }

        .form-container form select, .form-container form button {

            margin-top: 10px;

        }

    </style>

</head>

<body>

    <header>

        <!-- Header content here -->

    </header>

    <main>

        <h1>User Profile</h1>

        <h2>Registered Classes</h2>

        <ul>

            <?php foreach ($registeredClasses as $class): ?>

                <li>

                    <strong>Class Name:</strong> <?php echo $class['class\_name']; ?><br>

                    <strong>Instructor:</strong> <?php echo $class['instructor']; ?><br>

                    <strong>Schedule:</strong> <?php echo $class['schedule']; ?><br>

                </li>

            <?php endforeach; ?>

        </ul>

        <div class="form-container">

            <h2>Add More Courses to Your Semester</h2>

            <!-- Form for adding classes -->

            <form action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]); ?>" method="post">

                <label for="class\_id">Select Additional Class:</label>

                <select id="class\_id" name="class\_id">

                    <?php foreach ($classes as $class): ?>

                        <option value="<?php echo $class['class\_id']; ?>"><?php echo $class['class\_name']; ?></option>

                    <?php endforeach; ?>

                </select><br>

                <button type="submit" name="add\_class">Add Class</button>

            </form>

            <h2>Delete Classes from Your Schedule</h2>

            <!-- Form for deleting classes -->

            <form action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]); ?>" method="post">

                <label for="delete\_class\_id">Select Class to Delete:</label>

                <select id="delete\_class\_id" name="delete\_class\_id">

                    <?php foreach ($registeredClasses as $class): ?>

                        <option value="<?php echo $class['class\_id']; ?>"><?php echo $class['class\_name']; ?></option>

                    <?php endforeach; ?>

                </select><br>

                <button type="submit" name="delete\_class">Delete Class</button>

            </form>

        </div>

    </main>

    <?php include 'footer.php'; ?>

</body>

</html>

**Registration.php:**

<?php

error\_reporting(E\_ALL);

ini\_set('display\_errors', 1);

// Include the database handler

require\_once 'database.php';

$registrationStatus = ''; // Initialize registration status message

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

    // Retrieve form data

    $email = $\_POST["email"];

    $password = $\_POST["password"];

    $confirmPassword = $\_POST["confirm\_password"];

    $firstName = $\_POST["first\_name"];

    $lastName = $\_POST["last\_name"];

    $address = $\_POST["address"];

    $phone = $\_POST["phone"];

    // Check if passwords match

    if ($password !== $confirmPassword) {

        $registrationStatus = "Passwords do not match";

    } else {

        // Check if the email already exists in the database

        $sql = "SELECT \* FROM users WHERE email='$email'";

        $userData = $databaseHandler->executeSelectQuery($sql);

        if (count($userData) > 0) {

            $registrationStatus = "Email already exists";

        } else {

            // Insert user data into the database

            $hashedPassword = password\_hash($password, PASSWORD\_DEFAULT);

            $sql = "INSERT INTO users (email, password, firstName, lastName, address, phone)

                    VALUES ('$email', '$hashedPassword', '$firstName', '$lastName', '$address', '$phone')";

            $databaseHandler->executeQuery($sql);

            $registrationStatus = "Registration successful"; // Update registration status

            header("Location: login.php"); // Redirect to login page

            exit(); // Stop execution after redirect

        }

    }

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Registration</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            margin: 0;

            padding: 0;

            background-color: #f0f0f0;

        }

        header {

            background-color: #333;

            color: #fff;

            padding: 10px 0;

            text-align: center;

        }

        main {

            padding: 20px;

        }

        h1 {

            font-size: 24px;

            margin-bottom: 20px;

            text-align: center;

        }

        .form-container {

            background-color: #fff;

            padding: 20px;

            margin-top: 20px;

            border-radius: 5px;

        }

        .form-container h2 {

            font-size: 20px;

            margin-bottom: 10px;

        }

        .form-container form label {

            display: block;

            margin-bottom: 10px;

        }

        .form-container form input[type="text"],

        .form-container form input[type="email"],

        .form-container form input[type="password"] {

            width: 100%;

            padding: 10px;

            margin-bottom: 20px;

            border: 1px solid #ccc;

            border-radius: 5px;

            box-sizing: border-box;

        }

        .form-container form button {

            padding: 10px 20px;

            background-color: #007bff;

            color: #fff;

            border: none;

            border-radius: 5px;

            cursor: pointer;

        }

        .form-container form button:hover {

            background-color: #0056b3;

        }

        .form-container form p {

            color: #ff0000;

            margin-top: 10px;

        }

    </style>

</head>

<body>

    <header>

        <!-- Header content here -->

    </header>

    <main>

        <h1>Registration</h1>

        <div class="form-container">

            <!-- Registration form here -->

            <form action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]); ?>" method="post">

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

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

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

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

                <label for="confirm\_password">Confirm Password:</label><br>

                <input type="password" id="confirm\_password" name="confirm\_password" required><br>

                <label for="first\_name">First Name:</label><br>

                <input type="text" id="first\_name" name="first\_name" required><br>

                <label for="last\_name">Last Name:</label><br>

                <input type="text" id="last\_name" name="last\_name" required><br>

                <label for="address">Address:</label><br>

                <input type="text" id="address" name="address"><br>

                <label for="phone">Phone:</label><br>

                <input type="text" id="phone" name="phone"><br>

                <button type="submit">Register</button>

            </form>

            <!-- Display registration status message -->

            <p><?php echo $registrationStatus; ?></p>

        </div>

    </main>

    <?php include 'footer.php'; ?>

</body>

</html>