**Part 1: 1 hour 30 min 1pm-2:30pm**

**Class Task: Creating a Simple Web Application with Forms, Linked Pages, CSS, and Embedded Media**

**Overview**

Create a simple web application with three linked pages, incorporating HTML forms, an external CSS file for styling, a common banner and footer for all pages, and embedded images and a map for location.

**Structure**

1. index.html: Home page
2. about.html: About page
3. contact.html: Contact page
4. styles.css: External CSS file
5. db.php: Database connection script (if needed)
6. form\_handler.php: Form submission handling script (if needed)

**Step 1: Create the External CSS File (styles.css)**

css

Sample code to guide you

/\* styles.css \*/

body {

 font-family: Arial, sans-serif;

 margin: 0;

 padding: 0;

 background-color: #f4f4f4;

}

header, footer {

 background-color: #333;

 color: white;

 text-align: center;

 padding: 1em 0;

}

nav {

 margin: 0;

 padding: 0;

 background-color: #444;

 text-align: center;

}

nav a {

 color: white;

 display: inline-block;

 padding: 1em;

 text-decoration: none;

}

nav a:hover {

 background-color: #555;

}

.container {

 padding: 20px;

 margin: 20px;

 background-color: white;

 border-radius: 8px;

 box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

}

**Step 2: Create the Common Header and Footer**

Save the header and footer content in separate files for reuse.

html

Sample code to guide you

<!-- header.html -->

<header>

 <h1>My Web Application</h1>

</header>

<nav>

 <a href="index.html">Home</a>

 <a href="about.html">About</a>

 <a href="contact.html">Contact</a>

</nav>

<!-- footer.html -->

<footer>

 <p>&copy; 2024 My Web Application</p>

</footer>

**Step 3: Create the Home Page (index.html)**

html

Sample code to guide you

<!DOCTYPE html>

<html lang="en">

<head>

 <meta charset="UTF-8">

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

 <title>Home - My Web Application</title>

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

</head>

<body>

 <?php include 'header.html'; ?>

 <div class="container">

 <h2>Welcome to My Web Application</h2>

 <p>This is the home page of the web application.</p>

 <img src="images/home\_image.jpg" alt="Home Image" width="600">

 </div>

 <?php include 'footer.html'; ?>

</body>

</html>

**Step 4: Create the About Page (about.html)**

html

Sample code to guide you

<!DOCTYPE html>

<html lang="en">

<head>

 <meta charset="UTF-8">

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

 <title>About - My Web Application</title>

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

</head>

<body>

 <?php include 'header.html'; ?>

 <div class="container">

 <h2>About Us</h2>

 <p>This page provides information about our web application.</p>

 </div>

 <?php include 'footer.html'; ?>

</body>

</html>

**Step 5: Create the Contact Page with Form and Map Embedding (contact.html)**

html

Sample code to guide you

<!DOCTYPE html>

<html lang="en">

<head>

 <meta charset="UTF-8">

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

 <title>Contact - My Web Application</title>

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

</head>

<body>

 <?php include 'header.html'; ?>

 <div class="container">

 <h2>Contact Us</h2>

 <form action="form\_handler.php" method="POST">

 <label for="name">Name:</label><br>

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

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

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

 <label for="message">Message:</label><br>

 <textarea id="message" name="message" required></textarea><br><br>

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

 </form>

 <h3>Our Location</h3>

 <iframe src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d3151.8354345094116!2d144.95592331531785!3d-37.81720997975139!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x6ad642af0f11fd81%3A0xf57732b96e046f01!2sGoogle!5e0!3m2!1sen!2sau!4v1602210132298!5m2!1sen!2sau" width="600" height="450" frameborder="0" style="border:0;" allowfullscreen="" aria-hidden="false" tabindex="0"></iframe>

 </div>

 <?php include 'footer.html'; ?>

</body>

</html>

**Step 6: Create Form Handler Script (form\_handler.php)**

php

Sample code to guide you

// form\_handler.php

<?php

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

 $name = $\_POST['name'];

 $email = $\_POST['email'];

 $message = $\_POST['message'];

 // Here you can add code to save the form data to a database or send an email

 echo "<h2>Form Submitted</h2>";

 echo "<p>Name: $name</p>";

 echo "<p>Email: $email</p>";

 echo "<p>Message: $message</p>";

} else {

 echo "Invalid request method.";

}

?>

**Step 7: Add Images Directory and Sample Image**

Create an images directory in your project folder and add a sample image named home\_image.jpg (or any image you prefer) to this directory.

**Summary**

1. **External CSS**: styles.css for styling.
2. **Header and Footer**: header.html and footer.html for consistent layout.
3. **Home Page**: index.html with a welcome message and image.
4. **About Page**: about.html with information about the application.
5. **Contact Page**: contact.html with a form and embedded Google Map.
6. **Form Handler**: form\_handler.php to handle form submissions.

This simple web application demonstrates the use of HTML forms, linked pages, external CSS, a common banner and footer, images, and map embedding for location.

**Part 2: 1 hour 30 min 2:30-4pm**

**Student to add creativity after completing the above task by doing these four areas**

 **Add a Blog Section** : Create a blog section where students can post articles, including a form for submitting new posts and a page to display all blog entries.

 **Implement User Authentication**: Develop a login and registration system to allow users to create accounts and log in to access exclusive content.

 **Create a Gallery Page**: Design a gallery page with a grid layout to showcase images, including an upload form to add new images.

 **Add a Testimonials Section**: Include a section for user testimonials on the homepage, with a form to submit new testimonials and a page to display all testimonials.

Add to your CSS file to include unique styles for the four new sections.

Follow the order of the tasks and have the work done within given timeframes. We will build up on this next week. Feel free to use ChatGPT, peer learning or any other source to complete or get more expounding. Emphasis is learning so group learning is also encouraged but each person to demo their independent work. You can modify CSS or any other section to make the work appealing.