

AI_Assisted_Coding_Assignment_Week-14

Name : Srikar

Roll No:2403A52188

Assignment Number: 14.3

Task Description #1 – AI-generated HTML Page Task: Ask AI to generate a simple HTML homepage for a "Student Info Portal" with a header, navigation menu, and footer.

Prompt : write an HTML Code that generate a simple HTML homepage for a "Student Info Portal" with a header, navigation menu, and footer show information like my name is P.Srikar , I am studying in B-Tech 2nd year course CSE-AIML roll-no : 2403A52188, subjects : WTMP , AI , DAV , CN , CC etc..

```
padding: 10px 0;
position: fixed;
bottom: 0;
width: 100%;
}
</style>
</head>
<body>

<header>
  <h1>Student Information Portal</h1>
</header>

<nav>
  <a href="#">Home</a>
  <a href="#">Profile</a>
  <a href="#">Courses</a>
  <a href="#">Grades</a>
  <a href="#">Contact</a>
</nav>

<div class="container">
  <h2>Welcome to the Student Information Portal</h2>
  <p>This is the homepage for the Student Information Portal. You can navigate to different sections using the links above.</p>
  <p>Use this portal to access your profile, view your courses and grades, and find contact information.</p>

  <h3>Student Information:</h3>
  <p><strong>Name:</strong> P.Srikar</p>
  <p><strong>Year:</strong> B-Tech 2nd year</p>
  <p><strong>Course:</strong> CSE-AIML</p>
  <p><strong>Roll Number:</strong> 2403A52188</p>
  <p><strong>Subjects:</strong> WTMP, AI, DAV, CN, CC</p>
</div>

<footer>
  <p>&copy; 2023 Student Info Portal. All rights reserved.</p>
</footer>

</body>
</html>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Student Info Portal</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
      background-color: #f4f4f4;
    }
    header {
      background-color: #333;
      color: white;
      padding: 10px 0;
      text-align: center;
    }
    nav {
      background-color: #444;
      color: white;
      padding: 10px 0;
      text-align: center;
    }
    nav a {
      color: white;
      text-decoration: none;
      margin: 0 15px;
    }
    nav a:hover {
      text-decoration: underline;
    }
    .container {
      padding: 20px;
    }
    footer {
      background-color: #333;

```

Student Information Portal

[Home](#) [Profile](#) [Courses](#) [Grades](#) [Contact](#)

Welcome to the Student Information Portal

This is the homepage for the Student Information Portal. You can navigate to different sections using the links above.

Use this portal to access your profile, view your courses and grades, and find contact information.

Student Information:

Name: P.Srikar

Year: B-Tech 2nd year

Course: CSE-AIML

Roll Number: 2403A52188

Subjects: WTMP, AI, DAV, CN, CC

Task Description #2 – CSS Styling Task: Use AI to add CSS styling to Task #1 homepage for: • Responsive navigation bar. • Centered content section • Footer with light gray background.

Prompt : write an HTML code add CSS styling to Task #1 homepage for: • Responsive navigation bar. • Centered content section. • Footer with light gray background.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Student Info Portal</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
      background-color: #f4f4f4;
    }
    header {
      background-color: #333;
      color: white;
      padding: 10px 0;
      text-align: center;
    }
    nav {
      background-color: #444;
      color: white;
      padding: 10px 0;
      text-align: center;
    }
    nav a {
      color: white;
      text-decoration: none;
      margin: 0 15px;
      display: inline-block; /* Added for responsiveness */
    }
    nav a:hover {
      text-decoration: underline;
    }
    .container {
      padding: 20px;
      max-width: 800px; /* Added for centering */
      margin: 20px auto; /* Added for centering */
      background-color: #fff; /* Added for content box */
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1); /* Added for content box shadow */
    }
    footer {
      background-color: #f0f0f0; /* Changed to light gray */
      color: #333; /* Changed color for contrast */
      text-align: center;
      padding: 10px 0;
      position: fixed;
      bottom: 0;
      width: 100%;
    }

    /* Added for responsive navigation */
    @media (max-width: 600px) {
      nav a {
        display: block;
        margin: 5px 0;
      }
    }
  </style>
</head>
<body>

  <header>
    <h1>Student Information Portal</h1>
  </header>

  <nav>
    <a href="#">Home</a>
    <a href="#">Profile</a>
    <a href="#">Courses</a>
    <a href="#">Grades</a>
    <a href="#">Contact</a>
  </nav>

  <div class="container">
    <h2>Welcome to the Student Information Portal</h2>
    <p>This is the homepage for the Student Information Portal. You can navigate to different sections using the links above.</p>
    <p>Use this portal to access your profile, view your courses and grades, and find contact information.</p>
  </div>

  </body>
</html>
```

```

<nav>
  <a href="#">Home</a>
  <a href="#">Profile</a>
  <a href="#">Courses</a>
  <a href="#">Grades</a>
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  <h3>Student Information:</h3>
  <p><strong>Name:</strong> P.Srikar</p>
  <p><strong>Year:</strong> B-Tech 2nd year</p>
  <p><strong>Course:</strong> CSE-AIML</p>
  <p><strong>Roll Number:</strong> 2403A52188</p>
  <p><strong>Subjects:</strong> WTMP, AI, DAV, CN, CC</p>
</div>

<footer>
  <p>&copy; 2023 Student Info Portal. All rights reserved.</p>
</footer>

</body>
</html>

```

Student Information Portal

Home Profile Courses Grades Contact

Welcome to the Student Information Portal

This is the homepage for the Student Information Portal. You can navigate to different sections using the links above.

Use this portal to access your profile, view your courses and grades, and find contact information.

Student Information:

Name: P.Srikar

Year: B-Tech 2nd year

Course: CSE-AIML

Roll Number: 2403A52188

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Activate V
Go to Settings

Task Description #3 – JavaScript Interactivity Task: Prompt AI to generate a JS script that validates a simple login form (non-empty username/password).

Prompt : write an HTML code that generate a JS script that validates a simple login form (non-empty username/password).Working on submit JS validation. if inputs are empty it should give error message if I login it should of the student info page add USERNAME SRIKAR PASSWORD Srikar123.

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Login Form</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      display: flex;
      justify-content: center;
      align-items: center;
      min-height: 100vh;
      background-color: #f4f4f4;
    }
    .login-container {
      background-color: #fff;
      padding: 30px;
      border-radius: 8px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }
    .login-container h2 {
      text-align: center;
      margin-bottom: 20px;
    }
    .form-group {
      margin-bottom: 15px;
    }
    .form-group label {
      display: block;
      margin-bottom: 5px;
      font-weight: bold;
    }
    .form-group input {
      width: 100%;
      padding: 8px;
      box-sizing: border-box;
      border: 1px solid #ccc;
      border-radius: 4px;
    }
  
```

```

    .form-group input {
      width: 100%;
      padding: 8px;
      box-sizing: border-box;
      border: 1px solid #ccc;
      border-radius: 4px;
    }
    .error-message {
      color: red;
      font-size: 0.9em;
      margin-top: 5px;
      display: none; /* Initially hidden */
    }
    button {
      width: 100%;
      padding: 10px;
      background-color: #5cb85c;
      color: white;
      border: none;
      border-radius: 4px;
      cursor: pointer;
      font-size: 1em;
    }
    button:hover {
      background-color: #4cae4c;
    }
  </style>
</head>
<body>

  <div class="login-container">
    <h2>Login</h2>
    <form id="loginForm">
      <div class="form-group">
        <label for="username">Username:</label>
        <input type="text" id="username" name="username">
        <div class="error-message" id="usernameError">Invalid username or password.</div>
      </div>

```

```

        <div class="error-message" id="usernameError">Invalid username or password.</div>
    </div>
    <div class="form-group">
        <label for="password">Password:</label>
        <input type="password" id="password" name="password">
        <div class="error-message" id="passwordError">Invalid username or password.</div>
    </div>
    <button type="submit">Login</button>
</form>
</div>

<script>
    document.getElementById('loginForm').addEventListener('submit', function(event) {
        event.preventDefault(); // Prevent default form submission

        const usernameInput = document.getElementById('username');
        const passwordInput = document.getElementById('password');
        const usernameError = document.getElementById('usernameError');
        const passwordError = document.getElementById('passwordError');

        const validUsername = "SRIKAR"; // Correct username
        const validPassword = "Srikar123"; // Correct password

        // Hide previous error messages
        usernameError.style.display = 'none';
        passwordError.style.display = 'none';

        if (usernameInput.value.trim() === validUsername && passwordInput.value.trim() === validPassword) {
            // If valid, redirect to the student info page
            window.location.href = 'student_info.html'; // Replace with the actual filename
        } else {
            // If invalid, display error message
            usernameError.style.display = 'block';
            passwordError.style.display = 'block';
        }
    });
</script>

</body>
</html>

```

Login

Username:

Password:

Task Description #4 – Python Backend Integration Task: Ask AI to generate a Flask app that serves the HTML form (Task #3) and prints the username on successful login.

Prompt :write a HTML code that enerate a Flask app that serves the HTML form (Task#3) and prints the username on successful login.

```
from flask import Flask, render_template, request, redirect, url_for

app = Flask(__name__)

# You will need to save the login form HTML as a file named 'login.html'
# in a folder named 'templates' in the same directory as this Python file.

# For now, let's create a placeholder route for the login page.
@app.route('/')
def login():
    return render_template('login.html')

if __name__ == '__main__':
    # This will run the Flask development server
    # It will be accessible at http://127.0.0.1:5000/
    app.run(debug=True)
```

Next Steps:

1. Create a new folder named `templates` in the same directory where you save this Python file.
2. Save the HTML code for the login form (from our previous steps) as a file named `login.html` inside the `templates` folder.
3. Run the Python code cell above.
4. Once the Flask server is running, open your web browser and go to `http://127.0.0.1:5000/` to see the login form.

In the next step, I will add the code to handle the form submission and validation.

Login

Username:

Password:

Login