

LAB MANUAL

Styled Web Page



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Objective

To apply CSS styles to a semantic HTML page to enhance its visual appearance. This practical will focus on linking an external stylesheet, adding layout and colors, and using GitHub Copilot to assist in generating reusable CSS styles.

Equipment Required

- Computer or laptop with internet connection.
- Installed software:
 - **VS Code**
 - **GitHub Copilot extension**

Prerequisites

- Completion of Practical 2 (Semantic HTML page ready).
- Basic understanding of CSS selectors, properties, and values.
- GitHub Copilot extension set up and functional.

Problem Statement

Take the HTML page from Practical 2 and:

- Create a separate **CSS file**.
- Use **Copilot** to suggest styles for header, navigation menu, sections, and footer.
- Make the layout visually structured (background colors, font sizes, padding).

Procedure

1. Continue from Practical 2

Open the semantic-web folder created in Practical 2.

2. Create a CSS File

1. Inside the folder, create a file called styles.css.
2. Open index.html and link the CSS file in the <head>: <link rel="stylesheet" href="styles.css">

```
<head>
  <link rel="stylesheet" href="styles.css">|
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Semantic Page</title>
</head>
```

3. Use Copilot to Generate Styles

In styles.css, type the comment:

`/* Basic styles for header, nav, main sections and footer */` and then ask for the code

Copilot will suggest a block of CSS. Example suggestion:

```
/*
    This stylesheet defines the basic styles for the main structural elements of
    the webpage,
    including the header, navigation bar, main content sections, and footer.
    It provides foundational layout, spacing, and appearance rules to ensure a
    consistent look and feel.
*/
body {
    margin: 0;
    padding: 0;
    font-family: Arial, Helvetica, sans-serif;
    background-color: #f9f9f9;
    color: #222;
}

header {
    background-color: #2c3e50;
    color: #fff;
    padding: 24px 0;
    text-align: center;
}

nav {
    background-color: #34495e;
    padding: 12px 0;
    text-align: center;
}

nav a {
    color: #fff;
    text-decoration: none;
    margin: 0 18px;
    font-weight: 500;
    transition: color 0.2s;
}

nav a:hover {
    color: #f39c12;
}
```

```
main {
  max-width: 900px;
  margin: 32px auto;
  padding: 24px;
  background: #fff;
  border-radius: 8px;
  box-shadow: 0 2px 8px rgba(44, 62, 80, 0.08);
}

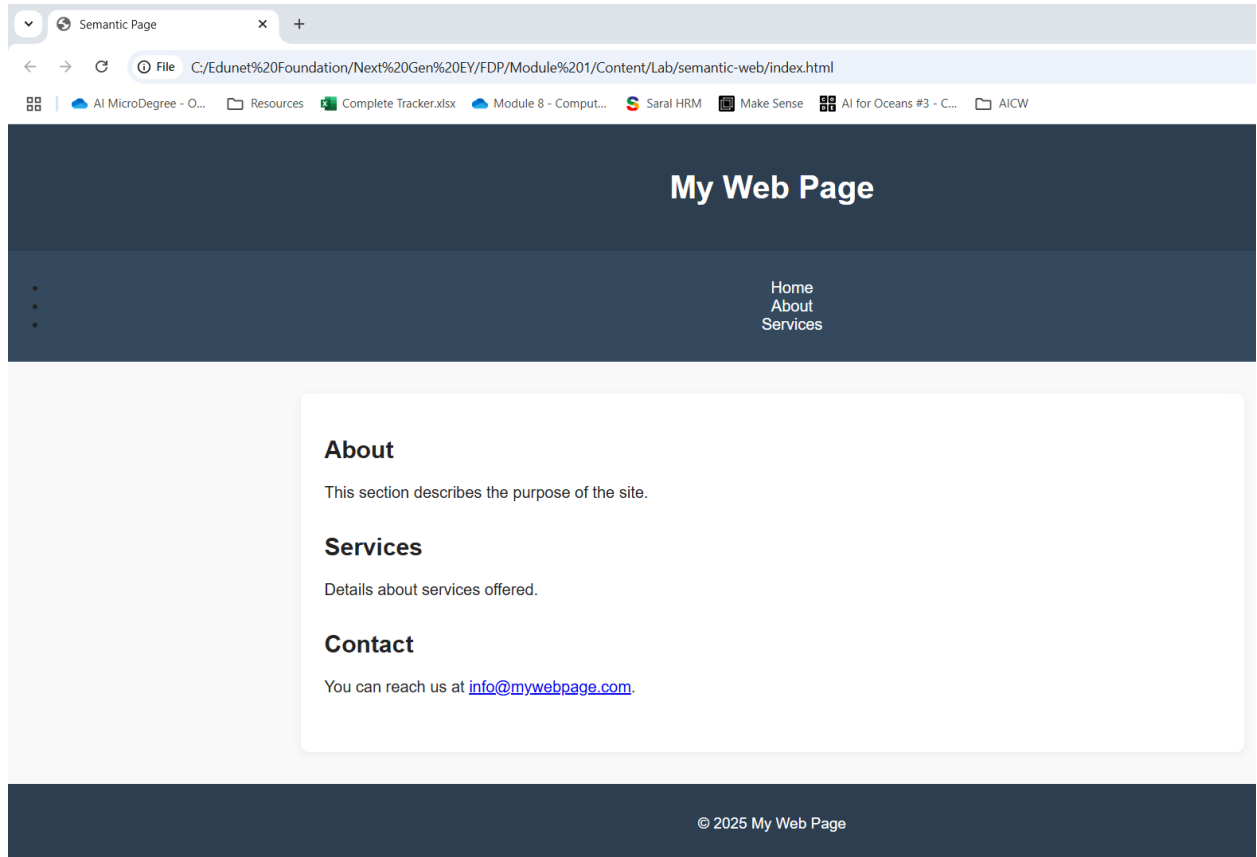
section {
  margin-bottom: 32px;
}

footer {
  background-color: #2c3e50;
  color: #fff;
  text-align: center;
  padding: 16px 0;
  position: relative;
  bottom: 0;
  width: 100%;
  font-size: 0.95em;
}
```

Press **Tab** to accept the suggestion or click on **Accept** button.

4. Preview the Styled Page

1. Right-click on index.html and select Reveal in File Explorer.
2. Now double-click on the index.html file



3. The page now has styled sections with background colors and spacing.

Setting up the Environment

1. VS Code.
2. GitHub Copilot enabled for CSS suggestions.

Key Outcomes

- Linking CSS to HTML.
- Generating reusable CSS with Copilot.
- Live preview of styling changes.