

Lab Assignment 3: Enhancing HTML Semantics and External Styling

Objective: In this lab, you will improve the structure and styling of an HTML document by replacing non-semantic elements with proper HTML5 semantic tags and moving inline styles to an external CSS file.

Instructions: You are given an HTML file (`cha03.html`) with some `<div>` and `` elements that need to be replaced with semantic HTML5 elements. The expected output of the HTML code is shown in Figure 1.

Tasks to Complete:

1. External Stylesheet:

- Move all inline `<style>` blocks to a separate CSS file (`styles.css`).
- Link the `styles.css` file to your HTML document.

2. Replace Non-Semantic Elements:

- Replace the `<div>` wrapping the navigation menu with a `<nav>` element.
 - Replace the `<div>` containing the heading, description, and student image with a `<header>` or `<section>`.
 - Replace the `<div>` containing the welcome message with an appropriate semantic element like `<article>` or `<section>`.
 - Replace the `` wrapping the copyright notice with a `<footer>` tag.
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Welcome to our website

This is a website for students and lecturers to interact with each other.

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Figure 1: Expected Output

Expected Outcome:

After completing this assignment:

- The HTML structure will use proper semantic tags for better readability and accessibility.
 - The CSS styles will be stored in an external file (`styles.css`).
 - The webpage will remain visually identical while following HTML5 best practices.
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Assignment: Group Project Showcase

Objective:

Each group will create a **Project Showcase Webpage** that introduces their team members and presents their project idea using semantic HTML5 elements and CSS styling.

Requirements:

Your webpage must include:

- **Navigation Bar (`<nav>`)** - A menu with links to different sections of your webpage.
- **Project Overview (`<section>`)** - A detailed explanation of your group's project idea.
- **Team Introductions (`<article>`)** - Each team member should have their own `<article>` with their **photo, name, and role**.
- **Footer (`<footer>`)** - A section containing group details and a **copyright notice**.
- **External CSS File (`styles.css`)** - Styling must be handled separately in an external file.

Bonus Challenge:

- Use **CSS Flexbox or Grid** for layout styling.
 - Add a **hover effect** to navigation links.
 - Ensure the webpage is **responsive** on different screen sizes.
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Submission Guidelines:

- 📌 **Upload your project files** to a GitHub repository and share the link.
 - 📌 Alternatively, submit a **ZIP file** containing your project.
 - 📌 Ensure your code is properly **formatted and commented**.
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Deadline: ()

Good luck, and happy coding! 🚀