

# Web Dev I Lab Assignment 2

## Personal Portfolio Website (CSS Core)

### Problem Statement

In this lab assignment, an external CSS stylesheet will be applied to the Lab 1 HTML file. Different sections such as `<header>` and `<section>` will be styled using element, class, and ID selectors. A consistent color theme will be created using HEX or RGB values, and typography will be customized with Google Fonts or the `@font-face` rule. The CSS box model, including padding, margin, and border, will be used to provide spacing between elements. The navigation bar will be styled with a background color and formatted `<a>` links. CSS positioning techniques—relative, absolute, static, and fixed—will be implemented for elements such as a back-to-top button or a sticky header. A `<table>` will be styled to display technical skills or tools, while buttons will be customized with border-radius, background color, and padding. Finally, visual separators will be added using `<hr>` and border styling to enhance the structure and readability of the webpage.

### Objective:

Create a personal portfolio webpage using an external CSS stylesheet with a consistent color theme, custom fonts, and structured layouts. Include styled navigation, skill tables, buttons, and visual elements for a polished and professional look.

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### Learning Outcomes

Upon completion of this assignment, the student will be able to:

1. Apply an external CSS stylesheet to structure and manage webpage design effectively..
2. Use element, class, and ID selectors to style different sections of a webpage in a systematic way.
3. Implement a consistent color theme and custom typography

4. Utilize the CSS box model to create proper spacing, borders, and layout adjustments.
5. Design and style navigation bars, tables, buttons, and separators for a professional webpage appearance.
6. Apply CSS positioning techniques to create interactive elements such as sticky headers or back-to-top buttons.

## Detailed Instructions

### 1. Link External CSS

Create a new file `style.css` in your project folder. Link it inside `<head>` of `index.html` using `<link rel="stylesheet" href="style.css">`.

### 2. Color Theme & Fonts

Pick 2–3 colors (using HEX or RGB). Apply them consistently to background, text, and headings. Import a Google Font (e.g., Poppins or Roboto) in your CSS for a professional look.

### 3. Navigation Styling

Style the `<nav>` with a background color. Make `<a>` links padded, remove underline, and add hover effects.

### 4. Box Model (Spacing)

Apply margins and padding between sections (About, Projects, Contact). Add borders or shadows to separate content neatly.

5. **Skills Table Styling**

Style your `<table>` with borders, alternating row colors, and padding in cells to make it readable.

6. **Buttons**

Customize `<button>` with background-color, padding, border-radius, and hover effects for better UI.

7. **Positioning**

Try position: fixed; to create a “Back to Top” button or sticky navigation bar.

8. **Visual Elements**

Use `<hr>` with styled borders to separate sections visually. Add box shadows to images for a polished look.

9. **Consistency & Clean Code**

Keep fonts, spacing, and colors consistent across the webpage. Write clean CSS with comments (e.g., `/* Navigation Styles */`).

## Expected Output

# My Portfolio

[About](#) [Skills](#) [Projects](#) [Contact](#)

## About Me



Hello! My name is John Doe. I am learning web development and this is my first portfolio website.

## My Skills

Skill	Level
HTML	Beginner
CSS	Beginner
JavaScript	Learning

## My Projects

### Project 1

A simple HTML & CSS webpage.

### Project 2

Another awesome mini project.

## Contact Me

Name:	<input type="text" value="Enter your name"/>
Email:	<input type="text" value="Enter your email"/>
Message:	<input type="text" value="Write your message"/>
<input type="button" value="Send"/>	

[1 Back to Top](#)

## Guidelines to Students

1. **Folder Setup**

Create a project folder (e.g., portfolio-project) and keep files organized: index.html, style.css, and an images folder. File names must always be lowercase and without spaces.

2. **Use External CSS**

All styling must be written in style.css only (not inline or internal). Link it correctly in the <head> of your HTML file.

3. **Consistency**

Apply a proper color theme, use Google Fonts or custom fonts, and keep layout spacing uniform using padding, margin, and borders.

4. **Professional Look**

Ensure navigation is styled, buttons have hover effects, sections are clearly separated, and the skills table looks neat.

5. **Output Match**

Your final webpage must look and function similar to the given lab output/instructions. Test in a browser and make sure navigation, form, and table all work properly.

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## Improvements/Adjustments

1. Ensure proper color contrast between text and background for better readability.
2. Maintain consistent font usage across the webpage (Google Fonts recommended).

3. Check the layout on different screen sizes to verify it remains clear and structured.
4. Align the Skills Table neatly with bold headers, uniform text alignment, and proper spacing.
5. Use margins and padding effectively to center the table and form on the page.
6. Add hover effects on buttons for a polished interactive experience.
7. Use visual separators (background colors or `<hr>`) to clearly divide sections.
8. Ensure correct use of form structure with proper labels, placeholders, and validation attributes.
9. Insert at least one proper image (e.g., profile photo in About section) with correct size and alt text.
10. Write clean, indented code so the project is easy to read and modify.

## Submission Guidelines

1. Push index.html, style.css, and assets to a GitHub repository.
2. Include a README.md with:
3. Verify all sections are styled
4. Share the GitHub repository link with the faculty.

## Performance Metrics (Out of 5 Marks)

Criteria	Marks
Proper Structure & Semantic HTML – Using header, nav, section, footer correctly.	1
Proper spacing with margin/box model, neat alignment.	1
Table centered neatly and form fields complete with labels & validation.	1
Final output matches the expected portfolio design with accuracy	1

Hover effects and smooth scrolling	1
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