

# Lab: Build a Clean, Accessible Portfolio Section (HTML + CSS, No JS)

## Overview

Create a simple, responsive “About Me” + “Projects” page using only HTML and CSS while following industry best practices: semantic markup, accessibility, maintainable CSS, and responsive layout.

## Learning Objectives

- Use semantic HTML (landmark elements, headings hierarchy, lists, links, images).
- Apply accessible patterns (alt text, labels, color contrast, focus states).
- Organize files using a clear folder structure and relative paths.
- Write maintainable CSS (BEM naming or utility sections, comments, variables).
- Make a layout that is responsive without frameworks or JS.

## Constraints

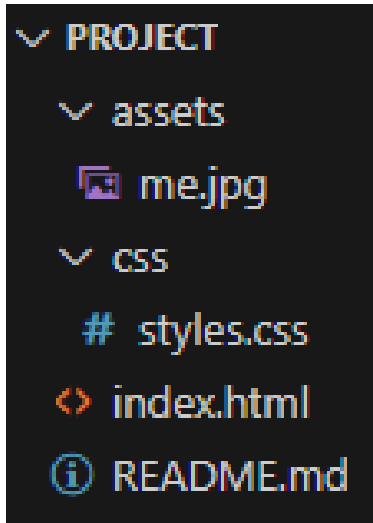
- No JavaScript, no frameworks, no CSS libraries.
- One page only: `index.html` + one CSS file `css/styles.css`.
- Must pass HTML & CSS validators (no errors): W3C HTML/CSS validation.

## Deliverables

1. `index.html`
2. `css/styles.css`
3. `assets/` (images, if any)
4. `README.md` (brief: purpose, how to open, notes on accessibility)

5. Submit repo link (e.g., GitHub) + live link (e.g., GitHub Pages) if available.

## Suggested Folder Structure



## Required Sections (Content)

- **Header:** site title (your name) and nav with skip link.
- **Main:**
  - About section: short bio (2–3 sentences) + one image with meaningful **alt**.
  - Projects section: 2–3 project cards (title, 1–2 sentence description, “View” link).
- **Footer:** contact line (email link) + year.

## Best-Practices Checklist

### HTML

- Uses semantic elements: **header**, **nav**, **main**, **section**, **footer**, **h1–h3**, lists.
- One H1 only; headings follow logical order.
- Alt text is meaningful (describes purpose, not “image”).
- Links have clear text (no “click here”).

- Uses relative paths and a clean folder structure.
- Passes W3C HTML validator with 0 errors.

### Accessibility

- Color contrast meets WCAG AA (text vs background).
- Focus outlines are visible; no `outline: none`.
- Landmarks present (`role` only if needed).
- Images don't convey critical info without text.

### CSS

- Uses custom properties (variables) for consistency.
- Organized sections with comments.
- Avoids over-specific selectors & `!important`.
- Mobile-first, responsive layout (fluid, grid).
- Passes W3C CSS validator with 0 errors.

### Performance

- Only one CSS file, linked in `<head>`.
- No unused large images; images are optimized.
- Uses `rel="preload"` (as shown) for CSS.

### Rubric (20 pts)

- Semantic HTML & Structure (6 pts) – correct landmarks, headings, lists, links.
- Accessibility (6 pts) – alt text, focus styles, contrast, skip link.

- CSS Quality (4 pts) – variables, organization, responsive grid, no **!important**.
- Cleanliness & Validation (2 pts) – passes HTML/CSS validators.
- Repo & Docs (2 pts) – proper structure + clear README.

## Submission Instructions

1. Push your project to a public repo (e.g., GitHub).
2. (Optional) Publish with GitHub Pages (Settings → Pages → **main** / **/root**).
3. Submit:
  - Repository URL
  - Live Site URL (if published)
  - A brief note on what you improved for accessibility.

## Sample Output:

