

## Lab Assignment: Build and Test a Single-Page Responsive Portfolio

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### 1. Objective

Create a **single-page responsive portfolio website** that showcases your personal or professional profile, projects, skills, and contact information. The portfolio must be visually appealing, functional across devices, and built using **HTML, and CSS (Without using JavaScript)**.

### 2. Step-by-Step Guidelines

#### A. Step 1: Analyze & Plan (Before Coding)

Encourage students to think critically before jumping into development.

##### 1. Define the Purpose:

- What is the goal of your portfolio? (e.g., job application, showcasing projects, personal branding, etc.). If you don't have a portfolio yet, please add a fake/sample portfolio first.
- Who is the target audience? (e.g., Potential Employers or Recruiters, Freelance Opportunities, University Admissions or Academic Supervisors, General Public or Personal Branding, etc.)

##### 2. Sketch the Layout:

- Use design tools like Figma, or Canva (*Figma is more recommended*).
- Include sections like:
  - Header (Name, tagline)
  - About me
  - Projects
  - Skills
  - Contact
  - Footer

##### 3. Decide on Content:

- Write short bios, project descriptions, and contact details.
- Choose images or icons to represent skills/projects. (*See recommended references section if you need some references*)

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##### 4. Choose a Color Scheme & Fonts:

- Use tools like Colors (<https://colors.co/>) or Google Fonts (<https://fonts.google.com/>).

#### B. Step 2: Set Up Your Project and Build The Website Structure

1. Create a folder named portfolio.
2. Inside the folder, create:
  - index.html
  - style.css
  - images/ folder for assets
3. Use semantic HTML5 elements: e.g., *header, nav, section, footer, etc.*
4. Style with CSS:
  - Use Flexbox and CSS box model for layout.
  - Make it responsive using media queries and relative units (em, %, vh, vw), and test on different screen sizes (Desktop, Tablet, and Mobile) use browser dev tools to simulate devices.
  - Add hover effects, transitions, and spacing.

#### C. Step 3: Deploy, Test & Debug

1. Check for broken links, typos, and layout issues.
2. Deploy your single-page responsive portfolio website using Github Pages.
3. Validate HTML/CSS using W3C Validator (<https://validator.w3.org/>) by entering the URL of your website after you have deployed it using Github Pages.

#### D. Step 4: Submit Your Lab Assignment

##### 1. Required Files:

Please prepare and submit the following:

- **Github Repository Link** (Link to your GitHub repository containing the portfolio website). Make sure to write a description/documentation of your website in the **README.md** file. You can refer to this example: <https://github.com/yourusername/your-portfolio-web>
- **Screenshots** of your portfolio website design using Figma or Canva.
- **Link to your portfolio website** deployed via Github Pages.