

Internet Programming 2

Learning Mini-Project 1: Personal Portfolio Website Project Specifications - February 2025

Notes

1. The project specs provided here is deliberately vague, as it is intended to be a **LEARNING** example and will be expanded as we progress to future versions.
 2. The primary intention here is to demonstrate that you are familiar with the underlying technologies (in this case HTML5, CSS3 and JavaScript)
 3. **DO NOT** make use of any other technology, except for Pure HTML, CSS and JavaScript.
 4. Make use of VS Code and the “Live Server” extension as your development environment.
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Project Objective

Create a professional personal portfolio website using **HTML**, **CSS**, and **JavaScript** to showcase your skills, projects, personality, and personal brand. The website should reflect your technical proficiency, aesthetic sense, and ability to build a user-friendly and engaging web experience.

Project Requirements

1. Website Structure

Your portfolio must consist of the following **mandatory sections**:

1. **Home:**
 - A welcoming section with a professional photo and tagline (e.g., "Front-End Developer | Designer | Problem Solver").
 - A brief introduction or hero statement.
 2. **About Me:**
 - Include a concise biography, career goals, or key achievements.
 - Optionally, display a list of key skills or proficiencies (e.g., programming languages or tools).
 3. **My Projects:**
 - Highlight at least **three projects** (real, fictional, or coursework) with:
 - A short description of each project.
 - Technologies/tools used (e.g., HTML, CSS, JavaScript).
 - Screenshots or mockups.
 - Optional: Links to live demos or GitHub repositories.
 4. **Contact:**
 - Provide a contact form (with input validation via JavaScript).
 - Include alternative contact details, such as email or social media links.
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2. Design & Responsiveness

- Apply **CSS styling** to create a visually consistent and professional theme.
 - Ensure **responsive design** so the website displays correctly on desktops, tablets, and mobile devices.
 - Incorporate **UI/UX best practices**, including:
 - Readable fonts and proper color contrast.
 - Consistent spacing, alignment, and layout.
 - Intuitive navigation and clear call-to-action elements.
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3. Interactivity

Incorporate **JavaScript features** to enhance the user experience:

1. **Smooth scrolling** for navigation links between sections.
 2. **Theme toggle** (light/dark mode).
 3. **Modal popups** for project details or images.
 4. **Form validation:** Ensure users enter valid information in the contact form (e.g., a valid email format).
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4. Content & Multimedia

Populate your portfolio with original, meaningful content:

- Write authentic descriptions about yourself and your projects.
 - Use multimedia elements like:
 - Videos (e.g., an introduction or project demo).
 - Slideshow or carousel for images.
 - Optional: Background music with a toggle for play/pause.
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5. Optimization & SEO

- Use **semantic HTML** for accessibility and better SEO.
 - Optimize performance with:
 - Compressed images.
 - Minified CSS and JavaScript files.
 - Lazy loading for images.
 - Include **meta tags** (title, description, keywords) for SEO.
 - Add **alt attributes** to images for accessibility and improved search engine indexing.
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Optional Enhancements

Version 2 of this mini-project will include, among others, the following additional enhancements: [you are advised to “problem-solve” this at this stage and make an attempt to implement some of these in the current version.]

- A **blog section** with at least three sample posts.
 - An **interactive skills showcase** (e.g., animated skill bars or charts).
 - Testimonials from peers or instructors (real or fictional).
 - A **multi-language feature** (e.g., toggle between two languages).
 - Accessibility enhancements, such as ARIA attributes or customizable font sizes.
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Project Tips

- Start early to ensure sufficient time for coding, debugging, and refining your work.
 - Regularly test your site on multiple devices and browsers.
 - Research examples of high-quality portfolio websites for inspiration.
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Good Luck!

This project is an opportunity to showcase your creativity and technical skills. Impress with a portfolio that reflects your individuality and potential.

PK Ramdeyal, 14 February 2025.