Project Documentation: Personal Portfolio Website

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Project Title: Single-Page Personal Portfolio

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1. Project Overview and Objectives

Overview

This project involves the development of a personal portfolio website designed to serve as a digital resume. The website acts as a central hub to showcase my professional background, technical skills, and projects to potential employers or clients. It is built using standard HTML5 and CSS3 technologies, ensuring compatibility across modern web browsers.

Objectives

- To create a professional online presence that represents my personal brand ("Vaishnavi Ray").
- To implement a responsive layout that works on desktop and mobile screens.
- To demonstrate proficiency in semantic HTML structure and internal CSS styling.
- To provide a functional and accessible user interface with clear navigation and contact methods.

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2. Setup and Installation Instructions

Since this project relies on static HTML and CSS with no backend dependencies, the setup process is straightforward.

Prerequisites:

- A text editor (e.g., VS Code, Notepad++, Sublime Text).
- A modern web browser (e.g., Chrome, Firefox, Edge).

Steps to Run:

1. **Create Project Folder:** Create a new folder on your computer named portfolio-vaishnavi.
2. **Create File:** Inside the folder, create a new file named index.html.
3. **Add Code:** Open index.html in your text editor and paste the provided source code.
4. **Launch:** Locate the index.html file in your file explorer and double-click it. The website will open immediately in your default web browser.

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3. Code Structure Explanation

The codebase consists of a single file (index.html) which contains both the structural markup and the stylistic presentation.

HTML5 Structure

The document follows a semantic hierarchy to ensure accessibility and SEO optimization:

- **\<header\> & \<nav\>:** Contains the site logo (Vaishnavi Ray) and unordered list (\<ul\>) links for navigation. These links use anchor tags (#about, #skills) to jump to specific page sections.
- **\<main\>:** The container for the primary page content.
    - **About Section:** Features a profile image and a short biography using paragraph tags.
    - **Skills Section:** Utilizes a grid-like layout to display technical competencies (HTML, CSS, JS, etc.) in individual cards.
    - **Contact Section:** Houses a \<form\> element with input fields for name, email, and a message.
- **\<footer\>:** Contains copyright information and closes the page layout.

CSS Styling

The styles are embedded in the \<head\> to keep the project portable.

- **Global Reset:** A universal selector (*) resets margins and padding to ensure consistent spacing.
- **Flexbox Layouts:** Flexbox is used extensively in the nav, .about-content, and .skills-grid classes to ensure elements align side-by-side and wrap responsively on smaller screens.
- **Visual Design:** The color palette uses professional tones (Dark Blue #2c3e50 and Bright Blue #3498db) to create contrast and focus.

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4. Screenshots of Working Application

(Note: When you create your final document, take actual screenshots of your browser and paste them in the areas below.)

Figure 1: Header and Navigation

[Insert Screenshot here showing the top of the page with the "Vaishnavi Ray" logo and navigation links]

Description: The sticky header stays at the top of the viewport, allowing users to navigate easily.

Figure 2: About and Skills Section

[Insert Screenshot here showing your bio and the skill cards]

Description: The About section displays the profile image alongside the text, while the Skills section uses a flex-wrap grid for the cards.

Figure 3: Contact Form

[Insert Screenshot here showing the input fields and "Send Message" button]

Description: A user-friendly form layout allowing visitors to input their name, email, and message.

5. Meeting Technical Requirements

This project successfully implements all the specified technical requirements:

Requirement	Implementation Details
Proper HTML5 Structure	The document starts with <!DOCTYPE html> and contains valid <html>, <head>, and <body> tags.
At least 3 Sections	The <main> element houses three distinct sections: #about, #skills, and #contact.
Semantic HTML Tags	Instead of generic divs, the code uses <header>, <nav>, <main>, <section>, and <footer> to define the page structure.
Working Contact Form	A <form> element is included with input types for text and email, and a textarea for the message. Attributes like required are used for validation.
Images and Alt Text	The profile image includes the alt attribute (alt="Portrait of the portfolio owner") to ensure accessibility for screen readers.
Internal Navigation	The navigation menu uses ID anchors (e.g., href="#contact") to smoothly scroll the user to the relevant section on the same page.