

Extra-B: Personal Web Portfolio

Extra-B: Personal Web Portfolio – Design and Implementation Report

1. Objectives

The objective of the Extra-B task is to extend a single-page portfolio into a structured, static multipage website. The site should demonstrate basic information architecture, a clear visual hierarchy, and responsive layout techniques while staying simple and easy to maintain. The final portfolio consists of four pages: a homepage, an about page, a projects page, and a contact page. All pages share one stylesheet and a unified navigation bar to provide a consistent user experience.

2. File Structure and Content

The project includes four HTML files named `index.html`, `about.html`, `projects.html`, and `contact.html`. A shared stylesheet `styles.css` controls typography, spacing, colors, layout, and responsive behavior. The `assets` folder holds images such as profile photos, project screenshots, and a favicon icon. The homepage presents a hero section with a short introduction, a tagline, and a call-to-action button linking to the projects page. It also includes a small features section that previews what visitors will find in the portfolio.

The about page contains a profile image, a short biography, and a list of key skills. The layout uses a two-column design on larger screens and collapses into a single column on smaller devices. The projects page shows at least three project cards, each with an image, title, short description, and a 'Details' button. The contact page displays email, phone number, location, and social links with small icon-style labels so that visitors can quickly find how to reach the owner.

3. Navigation and Information Architecture

All four pages share the same navigation bar placed at the top of the screen. The navigation bar includes links to Home, About, Projects, and Contact. The current page is highlighted using an 'active' class, which changes the text color and draws a simple underline border. This consistent navigation structure helps users understand where they are in the site and move between pages smoothly. The file structure is flat, which is sufficient for a small personal portfolio and keeps the linking simple.

4. Visual Design and Responsive Layout

The visual design focuses on a clean, minimal style with generous whitespace and simple typography. A neutral background and a limited color palette help maintain readability while allowing the accent color to draw attention to buttons and active navigation items. The CSS uses modern layout tools such as flexbox and CSS grid for main sections: the hero area, the feature boxes, the about layout, the project cards, and the contact grid. Media queries adapt these layouts for smaller screens by changing multi-column grids into single-column stacks.

The design avoids unnecessary visual effects and JavaScript in order to stay within the scope of the task. Rounded corners, light borders, and soft background colors give the cards a clear visual hierarchy without making the site too heavy or distracting. The typography uses a system UI font stack for simplicity and good default rendering across operating systems.

5. SEO and Accessibility Considerations

Each HTML file defines a descriptive `<title>` and a short meta description to support basic search engine optimization. The favicon is referenced through a link element so that the site has a recognizable icon in the browser tab. Semantic HTML elements such as header, main, section, article, and footer make the structure clearer for both browsers and assistive technologies. Images specify alt text, which helps screen readers and improves accessibility for users who cannot see the images.

6. Testing and Validation

The website was tested on different viewport sizes by manually resizing the browser window. On desktop width, the hero and about sections display two columns, while on narrow screens they are stacked vertically. Project cards and contact items also switch from a multi-column grid to a single column to avoid horizontal scrolling. Basic validation was done with browser developer tools to check for missing closing tags or invalid attributes. All internal links were verified to ensure they correctly point to the corresponding HTML files.

7. Limitations and Future Improvements

The current portfolio is intentionally simple and static. It does not include JavaScript-based interactivity, animations, or dynamic content. In the future, the site could be enhanced with interactive elements such as a lightbox for project screenshots, a contact form that sends email, or a theme switcher for light and dark modes. Additional pages such as a blog or a CV page could be added while preserving the same navigation and design system. However, for the purposes of this Extra-B task, the current multipage static design already meets the core requirements in a clean and maintainable way.