# **Project Title: Personal Portfolio Website**

## **Overview of the Project**

Created a responsive personal portfolio website to showcase projects, skills, and experiences related to being a software engineer. This project highlights how to create a modern, visually appealing, and user-friendly interface. It also includes, but is not limited to, an integrated functional contact form with EmailJS, by which potential clients or employers can get in direct contact.

## **Technologies Used**

1. **Frontend**

* HTML5: Provides the structure to the website.
* CSS3: Styling; it provides layout design using Flexbox and Grid.
* JavaScript: Inclusion of Interactive and Dynamic Content.
* Bootstrap: This is used in creating responsive designs and also supports prebuilt components. (Optional)
* SASS: To write modular and maintainable styles using the CSS preprocessor. (Optional)
* Responsive Design: I made it compatible with the mobile, tablet, and desktop devices using media queries.

1. **Backend- If at all required**

* Node.js: Additional backend features like form validation, storage is optional.

1. **Email Service**

* EmailJS: This handles form submissions and sends direct inquiries into your email without the need for a backend server.

## **Project Objectives**

* To build a professional-looking portfolio website showcasing my skills, experience, and past projects.
* To make the website fully responsive, it should work perfectly on different devices.
* To add a contact form to enable visitors to send messages directly through email.
* To offer a platform that would personify your personal brand as a software engineer.

## **Project Structure**

A screenshot of a computer program

Description automatically generated

## **Features Included**

1. Home Page:

* Introduction section with a professional photo and bio.
* Smooth scrolling, navigation bar that links to other sections of the website.

1. About Me:

* A complete description of one's skills, experience, and background.
* Timeline or listing of education and work experience.

1. Projects:

* Portfolio of past projects with images, descriptions, and links to live demos or GitHub repositories.
* A filtering feature that will provide means of sorting the projects by the technologies used and/or by the project types, for example, Web Development, Machine Learning.

1. Skills:

* This area should look cool and enumerate all of your technical skills.
* Use progress bars, charts, or icons to denote your proficiency level in different technologies.

1. Contact Form:

* A form containing fields: Name, Email, Subject, Message
* Integrated with EmailJS, sending inquiries directly to your email
* JavaScript Validation of the form so that a user is compelled to fill out all fields

1. Footer

* Links to your social media profiles - LinkedIn, GitHub, Twitter, etc.
* Copyright notice

1. Responsive Design

* Website adjusts to different screen sizes with the help of either CSS media queries or Bootstrap classes.
* Mobile-friendly navigation menu: hamburger menu

1. Animations and Effects:

* Subtle hover animations and effects to improve user experience.
* Smooth scrolling and transitions to give it that professional finish.

1. Challenges Faced:

* Ensuring cross-browser compatibility and mobile responsiveness.
* Integrating the EmailJS service in such a way that sensitive information is not exposed.
* Optimizing images and other assets for fast load times.

1. Future Improvements:

* Add a blog where technical articles and tutorials will be shared.
* Include the dark mode toggle.
* Add an even more dynamic backend, Node.js and Express, for handling form submissions and storage of user inquiries.
* Integrate Google Analytics to track website traffic and user interactions.

## Step-by-Step Development

1. Setup Project

* Create a new project folder portfolio-website
* Inside the folder, create subfolders: assets, js, styles to maintain order.

1. HTML Setup

* Create index.html and lay down the scaffold.

1. CSS Setup

* Add styles in styles/styles.css for layout and design.

1. JavaScript

* Create js/scripts.js for form submission handling.

1. Integrating EmailJS

* Create an account on EmailJS, set up a service, and host an email.
* Replace 'YOUR\_SERVICE\_ID' and 'YOUR\_TEMPLATE\_ID' in the script.js file with your actual values.

1. Adding Projects

* During development, add project cards in the project list in the HTML or dynamically via JavaScript.

### Deployment

Host the website using services like GitHub Pages, Netlify or Vercel for free use.

## **Conclusion**

It shows not only my skills as a developer but also may serve as a platform for employers where they can get in contact with me. A portfolio website enhanced my web development skills by giving me a professional online presence.