Project Documentation: Hasham Portfolio

# 1. Introduction

This document provides a formal overview and detailed documentation for the 'Hasham Portfolio' web project. The project showcases a personal portfolio website designed to present the skills, projects, and contact information of a web developer named Hasham. It includes three main files: an HTML structure file, a CSS stylesheet for design and layout, and a JavaScript file for interactive functionality.

# 2. HTML Structure (index.html)

The HTML file defines the overall structure and content of the portfolio website. It includes multiple sections: Header, Hero (Home), About, Skills, Projects, and Contact, followed by a Footer. The HTML is organized for clarity and accessibility using semantic elements and well-defined class names.

## 2.1 Main Sections

• Header – Contains the navigation bar with links to various sections and a theme toggle button.

• Hero Section – Introduces Hasham as a Web Developer & Creative Designer.

• About Section – Describes Hasham’s professional background and goals.

• Skills Section – Lists technical and creative skills with categorized cards.

• Projects Section – Displays sample projects with descriptions, technologies, and links.

• Contact Section – Provides a contact form and social contact details.

• Footer – Displays copyright and social links.

## 2.2 Features

• Responsive layout for all screen sizes.

• Navigation menu toggle for mobile view.

• Theme switch between light and dark modes.

• Contact form for user interaction.

# 3. CSS Styling (styles.css)

The CSS file defines the visual appearance, layout, and responsive design of the website. It uses CSS variables, grid layouts, and media queries to ensure adaptability and visual consistency.

## 3.1 Key Design Features

• Color Themes – Uses CSS variables for dark and light themes for easy theme switching.

• Typography – Utilizes 'Poppins' font for a clean, modern appearance.

• Responsive Design – Adjusts grid layouts for smaller devices via media queries.

• Interactive Effects – Hover effects and transitions enhance the user experience.

• Section Styling – Each major section (About, Skills, Projects, Contact) has consistent spacing and design hierarchy.

## 3.2 Layouts and Components

• Header and Navigation – Fixed header with theme toggle and animated mobile menu.

• Hero Section – Uses gradients and typography emphasis for an attractive introduction.

• Cards (Skills/Projects) – Use shadows, borders, and transitions for interactive display.

• Forms – Styled with consistent padding, borders, and focus effects.

# 4. JavaScript Functionality (script.js)

The JavaScript file adds interactivity to the website. It is written using Immediately Invoked Function Expressions (IIFEs) to avoid polluting the global scope and ensure modular structure.

## 4.1 Functional Components

• Theme Toggle – Switches between light and dark modes using localStorage to remember user preference.

• Mobile Navigation – Controls the hamburger menu and closes it when a link is selected.

• Smooth Scrolling – Enables smooth navigation between sections when menu links are clicked.

• Contact Form Handling – Displays an alert confirming message receipt and resets the form.

## 4.2 Code Structure

• Self-contained IIFEs ensure each feature operates independently.

• Event listeners are used for user interactions such as clicks and form submissions.

• LocalStorage ensures persistence of user-selected theme across sessions.

# 5. Conclusion

The 'Hasham Portfolio' project demonstrates modern front-end development practices combining HTML5, CSS3, and JavaScript. It provides a responsive, interactive, and visually appealing portfolio suitable for personal branding. The modular structure of the codebase allows for easy maintenance, scalability, and customization.