

# **SOFTWARE REQUIREMENT SPECIFICATIONS**

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# **SRS FOR WEBSITE PORTFOLIO**

## **1. Introduction**

### **1.1 Purpose**

The purpose of this document is to define the functional and non-functional requirements for the development of a dynamic and visually appealing portfolio website. This website aims to showcase the skills, projects, and experiences of an individual in a professional manner.

### **1.2 Document Convention**

Entire document should be justified

Convention for Main title

Font: Times New Roman

Font Style: Bold

Font Size: 14

Convention for sub title

Font: Times New Roman

Font Style: Bold

Font Size: 12

Convention for Body

Font: Times New Roman

Font Size: 12

### **1.3 Scope of Development Project**

The project involves the design and development of a responsive, interactive, and easily updatable personal portfolio website. The website will target potential employers, clients, and collaborators.

### **1.4 Definitions, Acronyms, and Abbreviations**

- **SRS:** Software Requirements Specification
- **GUI:** Graphical User Interface

## **2. Overall Descriptions**

### **2.1 Product Perspective**

The portfolio website is a standalone application, interacting with users through web browsers. It aims to establish a strong online presence for the individual and provide a comprehensive view of their skills and accomplishments.

### **2.2 Product Function**

The website will provide the following enhanced functionalities:

- **Dynamic Project Gallery:** A visually appealing gallery showcasing projects with detailed descriptions, images, and links to project pages or external repositories.
- **Resume/CV Download:** Users should have the option to download the individual's resume/CV in a standard format (e.g., PDF).
- **Skills Section:** A dedicated section to highlight key skills and competencies with visual representations (e.g., skill bars or charts).
- **Blog/Articles Section:** An optional blog or articles section for the individual to share insights, achievements, or industry-related thoughts.
- **Testimonials Section:** A section to display client or colleague testimonials endorsing the individual's work and professionalism.

## 2.3 User Classes and Characteristics

- **Visitor:** Any user accessing the website.
- **Admin:** The individual who owns the portfolio and can update the content.

## 2.4 Operating Environment

The website should be accessible from commonly used web browsers and be responsive across various devices, including desktops, tablets, and mobile phones.

## 2.5 Assumptions and Dependencies

- The website will be hosted on a reliable web hosting service.
- The individual has access to a domain name for the website.

## 2.6 Requirements

- The website should be developed using HTML, CSS, and JavaScript.
- Integration with a Content Management System (CMS) for easy content updates.

## 2.7 Data Requirement

The website will store user inquiries (name, email, message) in a secure database. Project details and blog articles will also be stored in a database.

# 3. External Interface Requirement

## 3.1 GUI

The GUI should be modern, intuitive, and include the following:

- **Navigation Menu:** Clearly labeled sections (Home, About Me, Portfolio, Blog, Contact).
- **Interactive Elements:** Hover effects, transitions, and animations to enhance user engagement.
- **Contact Form:** A user-friendly form with fields for name, email, subject, and message.

## 4. System Features

- **Home Page:** A welcoming introduction with a call-to-action, providing easy navigation to other sections.
- **About Me Section:** Detailed information about the individual, including education, professional background, and a timeline of achievements.
- **Portfolio Section:** Dynamic gallery with project details, technologies used, and links to project pages or repositories.
- **Skills Section:** Visual representation of skills using graphs, charts, or other relevant methods.
- **Resume/CV Download:** A button or link to download the individual's resume/CV.
- **Blog/Articles Section:** If applicable, a section for publishing articles or blog posts.
- **Testimonials Section:** Client or colleague testimonials to build credibility.

## 5. Non-Functional Requirements

### 5.1 Performance Requirement

The website should load within 2 seconds for optimal user experience.

### 5.2 Safety Requirement

Data submitted through the contact form should be encrypted for security.

### 5.3 Security

Implement secure coding practices to prevent common web vulnerabilities, including SQL injection and cross-site scripting.

### 5.4 Requirement Attributes

- The website should be easily updatable by the admin through a user-friendly CMS.
- Ensure cross-browser compatibility.

### 5.5 Business Rules

- The website design should reflect the individual's personal brand and professional image.

### 5.6 User Requirements

- Users should find it easy to navigate between sections.
- The contact form should be straightforward to use.

## 6. Class Diagram

