



SCRIBBLE SPHERE

(BLOG WEBSITE)

INT252

Software Requirements Specifications

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1. INTRODUCTION

This document includes software requirements specifications for an Blog website Scribble sphere. Scribble sphere is developed to make a easy and interactive platform for all the writers and creative artists to publish their work. Internet is a great place to connect with similar minded people and share our own work. For the people searching for a fun and comforting blog website to open their minds and write scribble sphere.com is the best website.

1.1 PURPOSE

The purpose of this SRS is to outline the functional and non-functional requirements of the Scribble sphere blog website. It aims to serve as a roadmap for developers, designers, and stakeholders involved in the creation and maintenance of the website. The intended audience includes software engineers, project managers, designers, and quality assurance teams.

1.2 SCOPE

(1) Software Product:

- Name: Scribble Sphere Blog Website
- Components: Home, About, Contact, Navbar, Footer

(2) Description:

- Scribble Sphere is a blog website designed to provide a platform for users to read and write blogs on various topics.
- The website will feature a responsive Navbar for easy navigation between different pages, including Landing, Login, Sign Up, Home, and Writing.
- The website will focus on blog functionalities and will not support additional features like e-commerce or online purchasing.

(3) Application:

- Scribble Sphere aims to establish a strong online presence in the blogging community and attract readers and writers interested in diverse topics.
- The website's goal is to showcase engaging blog content, encourage user interaction, and provide contact details for community engagement.
- Specific objectives include:
 - Providing an aesthetically pleasing and user-friendly interface for readers and writers.
 - Highlighting a diverse range of blog posts and fostering a community of writers and readers.

1.3 Definitions, Acronyms, and Abbreviations

- Scribble Sphere: The name of the blog website being developed.
- SRS: Software Requirements Specification - a document outlining the requirements for a software product.
- React: A JavaScript library for building user interfaces, used for developing the Scribble Sphere website.
- Navbar: A responsive navigation bar allowing users to navigate between different pages of the Scribble Sphere website.

1.4 Reference

- YouTube – Top Notch Programmer
- Butter CMS website

1.5 Overview

- The remainder of the Software Requirement Specification (SRS) document provides detailed information about the Scribble Sphere blog website project. It is organized into three main sections:
- Section 2: General Description - This section offers a comprehensive overview of the Scribble Sphere blog website, covering its perspective, functions, user characteristics, constraints, assumptions, and dependencies.
- Section 3: Specific Requirements - This section delineates the detailed requirements essential for the design, implementation, and testing of the Scribble Sphere blog website. Each requirement is meticulously organized to ensure correctness, traceability, unambiguity, verifiability, prioritization, completeness, consistency, and uniqueness.

2. GENERAL DESCRIPTION

2.1 Product Perspective

The Scribble Sphere blog website stands independently as a digital platform for hosting and sharing blog content. It does not directly interface with other products or projects but aims to establish a vibrant community of readers and writers.

2.2 Product Functions

The website will serve the following functions:

- Showcase diverse and engaging blog posts from various authors.
- Provide easy navigation through a responsive Navbar, facilitating movement between Landing, Login, Sign Up, Home, and Writing pages.

- Include a Footer section with essential links, copyright information, and social media links for enhanced user experience.
- Display contact information for users to reach out to the Scribble Sphere team.

2.3 User Characteristics

The users of the Scribble Sphere website are expected to have basic knowledge of web browsing and navigation. They may vary in demographics, including age, gender, and geographic location, but share an interest in reading and writing blogs on various topics.

2.4 General Constraints

The following constraints affect the development of the Scribble Sphere website:

- The website must be developed using React framework.
- It should be compatible with modern web browsers and devices.
- The website will focus on blog functionalities and will not support additional features like e-commerce.

2.5 Assumptions and Dependencies

Assumptions:

- The availability of a stable internet connection for users accessing the website.
- Users have a basic understanding of navigating websites.

Dependencies:

- Availability of resources required for website development, including hardware and software tools.

3. SPECIFIC REQUIREMENTS

This section outlines the detailed requirements for the Scribble Sphere blog website. Each requirement is organized and presented clearly to facilitate software design, implementation, and testing.

3.1 External Interface Requirements

3.1.1 User Interfaces

- The website shall have a clean, user-friendly interface optimized for reading and writing blogs.
- Navigation elements, including the Navbar and Footer, shall be consistent across all webpages (Landing, Login, Sign Up, Home, and Writing).

3.1.2 Hardware Interfaces

- The website shall be accessible on various devices, including desktops, laptops, and tablets.

- It should be compatible with standard web browsers such as Chrome, Firefox, Safari, and Edge.

3.1.3 Software Interfaces

- The website shall be built using React framework.

3.1.4 Communications Interfaces

- The website shall facilitate communication with users via contact forms and email addresses provided in the Contact Us section.

3.2 Functional Requirements

3.2.1 User Registration and Login

- Users shall be able to register for an account using a unique username, email, and password.
- Registered users shall be able to log in using their email and password.

3.2.2 Blog Post Management

- Registered users shall be able to create, edit, and delete their blog posts.
- A preview feature shall be available for users to preview their blog posts before publishing.

3.2.3 Blog Post Viewing

- The website shall display a list of blog posts on the Home page.
- Users shall be able to click on a blog post to view its full content.

3.3 Non-functional Requirements

3.3.1 Performance

- The website shall load within 2 seconds to ensure a smooth user experience.

3.3.2 Reliability

- The website shall have a 99.9% uptime to ensure constant availability for users.

3.3.3 Availability

- Uptime: The website should be available 24/7 with minimal downtime for maintenance.
- Scalability: Design the application to scale horizontally or vertically to accommodate increased traffic without impacting performance.

3.3.4 Security

- Passwords shall be encrypted using bcrypt before storing in the database.
- The website shall use HTTPS to encrypt data transmitted between the server and clients.

3.3.5 Maintainability

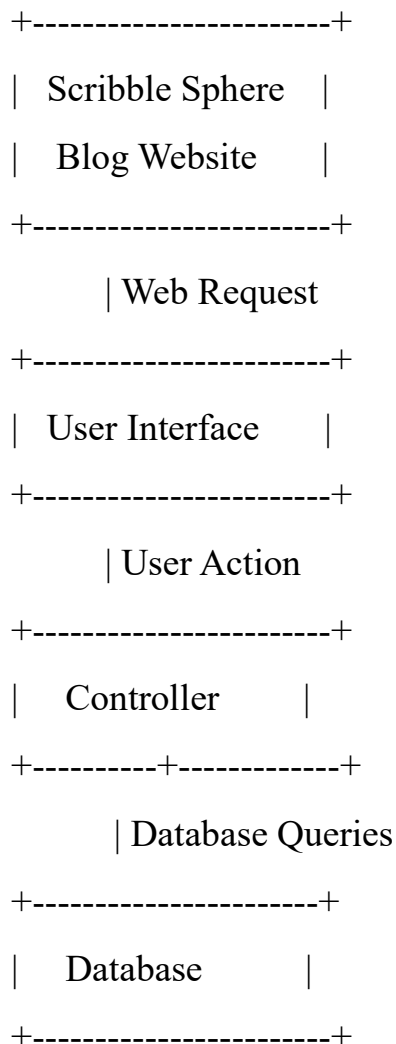
- The code shall be well-documented and follow best practices to facilitate future maintenance and updates.

3.3.6 Portability

- The website shall be scalable and adaptable to accommodate a growing number of users and blog posts.

4. ANALYSIS MODEL

4.1 DFD:-



1. Landing Page

- Outgoing: Link to Login, Sign Up, and Home
- Incoming: Web Request from User Interface

2. Login Page

- Outgoing: Validation to Controller, Link to Home
- Incoming: User Action from User Interface

3. Sign Up Page

- Outgoing: Registration Data to Controller, Link to Home
- Incoming: User Action from User Interface

4. Home Page

- Outgoing: Blog Post Data to User Interface, Link to Writing Page
- Incoming: User Action from User Interface

5. Writing Page

- Outgoing: New/Edited Blog Post Data to Controller
- Incoming: User Action from User Interface