**Software Requirements Specification (SRS) for Blog App**

***1. Introduction***

**1.1 Purpose**

The purpose of this document is to outline the software requirements for the development of a blog app. It includes the system's functional and non-functional requirements, constraints, and design specifications.

**1.2 Scope**

The blog app will provide users with a platform to create, publish, and manage blog posts. It will include features for user authentication, content creation, commenting, and social sharing.

**1.3 Definitions, Acronyms, and Abbreviations**

SRS: Software Requirements Specification

**UI: User Interface**

**API: Application Programming Interface**

2. System Description

2.1 Product Perspective

The blog app will operate as a standalone web application accessible through web browsers. It will interact with a backend server for data storage and retrieval.

2.2 Product Functions

2.2.1 User Authentication

***Users can create accounts.***

***Users can log in and log out.***

***Password recovery functionality.***

***2.2.2 Blog Post Management***

Users can create, edit, and delete blog posts.

Posts can include text, images, and embedded media.

Posts can be categorized and tagged.

***2.2.3 Commenting***

Users can comment on blog posts.

Comment moderation for administrators.

***2.2.4 Social Sharing***

Integration with social media platforms for sharing posts.

***2.3 User Classes and Characteristics***

Guest: Unregistered users browsing the site.

User: Registered users with the ability to create and manage blog posts.

Administrator: Users with elevated privileges for content moderation and user management.

***3. System Requirements***

***3.1 Functional Requirements***

***3.1.1 User Authentication***

Users must provide a valid email address for registration.

Passwords must be at least 8 characters long and include a mix of letters, numbers, and symbols.

***3.1.2 Blog Post Management***

Users can create a new blog post by providing a title, content, and optional metadata.

Posts must support basic formatting (e.g., bold, italic, lists).

Users can edit and delete their own posts.

***3.1.3 Commenting***

Users can leave comments on blog posts.

Comments must support basic formatting.

Administrators can moderate and delete comments.

***3.1.4 Social Sharing***

Users can share blog posts on external social media platforms.

Integration with social media APIs for seamless sharing.

***3.2 Non-functional Requirements***

***3.2.1 Performance***

The system should support a minimum of 1000 simultaneous users.

Page load times should be below 3 seconds.

***3.2.2 Reliability***

The system should have a backup and recovery mechanism.

Availability should be 99.9%.

***4. Constraints***

The system will be developed using the MEAN (MongoDB, Express.js, Angular, Node.js) stack.

The application will be designed to run on modern web browsers (Chrome, Firefox, Safari).

***5. Design and Implementation Constraints***

The user interface will follow responsive design principles.

API endpoints will adhere to RESTful principles.

***6. Conclusion***

This Software Requirements Specification provides a comprehensive overview of the functional and non-functional requirements for the development of the blog app. It serves as a reference for developers, testers, and stakeholders involved in the project.