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

**1. Introduction**

**1.1 Objective:**

The main objective of blogging Website is using this site user can create an account ,read the blogs according to the categories and also user can write the blogs and post it.

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**1.2 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.

**1.3 Overview:**

* Our goal is to create the Blogging Website, which will allow writers and readers worldwide to interact and exchange ideas, experiences, and opinions on a range of subjects.
* Our mission is to create a platform for people to express themselves, share their expertise, experiences and engage in meaningful conversations.
* Also peoples can read the blogs according to their interests.

**1.4 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. The blogging site will consist of a web application accessible through a modern web browser. Users will be able to create and manage their own accounts, create blog posts, and comment on other users posts.

**1.5 Definitions, Acronyms, and Abbreviations**

SRS: Software Requirements Specification

**2. Overall Description**

**2.1 Product Perspective**

The blogging site will be a standalone web application, designed to be easily accessible and

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**2.2 Product Features**

User registration and login

✓ Ability to create and edit blog posts

✓ Commenting system for users to interact with each other

✓ Tagging system for posts to allow for easy categorization and searching

✓ Search functionality to allow users to find posts by keyword or tag

✓ User profile pages to showcase personal information and recent activity

✓ Moderation tools to allow for easy management of content and users

✓ Responsive design to ensure compatibility across devices

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* Commenting system for users to interact with each other
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**2.3 User Classes and Characteristics**

The blogging site is designed to be accessible to users of all skill levels. Users may include individuals, organizations, or businesses looking to create and share content online.

**3. UI: User Interface**

**API: Application Programming Interface**

**3.1 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

**3.2 Product Functions**

**3.2.1 User Authentication**

* Users can create accounts.
* Users can log in and log out.
* Password recovery functionality.

**3.2.2 Blog Post Management**

* Users can create, edit, and delete blog posts.
* Posts can include text and images.
* Posts can be categorized and tagged.

**3.2.3 Commenting**

* Users can comment on blog posts.
* Comment moderation for administrators.

**3.2.4 Social Sharing**

* Integration with social media platforms for sharing posts.

**3.3 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.

**4. System Requirements**

**4.1 Functional Requirements**

**4.1.1 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.

**4.1.2 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.

**4.1.3 User profile**

* Each user will have a profile page displaying their personal information, recent activity, and list of posts they have created.

**4.1.4 Commenting**

* Users can leave comments on blog posts.
* Comments must support basic formatting.
* Administrators can moderate and delete comments.

**4.1.5 Social Sharing**

* Users can share blog posts on external social media platforms.
* Integration with social media APIs for seamless sharing.

**4.1.6 Responsive Website**

* The blogging site will be accessible through a modern web browser on a variety of devices, including desktop computers, laptops, tablets, and smartphones. The site will be hosted on a secure server with regular backups and maintenance.

**4.1.7 Logout**

* User should log out after reading or writing the blogs.

**4.2 Non-functional Requirements**

**4.2.1 Performance**

* The system should support a minimum of 1000 simultaneous users.
* Page load times should be below 3 seconds.

**4.2.2 Reliability**

* The system should have a backup and recovery mechanism.
* Availability should be 99.9%.
* The system should be scalable, with the ability to accommodate a large number of users at once.
* The site's response time should be as quick as feasible, and it should be able to load balance the server.

**4.2.3 Usability**

* The system should be easy to use. The system also should be user friendly for users because anyone can use it instead of programmers.

**4.2.4 Security**

* The site will be designed with security in mind, with measures in place to protect user data and prevent unauthorized access.

**4.2.5 Availability**

* This application should be available 24hrs so that user can access it anytime using the internet connection.

**4.2.6 Accessibility**

* Only authorized people should get access to the website.

**5.** **Vocabulary**

* **Blog post:** An article or piece of content created by a user on the site.
* **Comment:** A response to a blog post or another user’s comment.
* **Category:** A classification system used to organize content based on topic or them.
* **Content:** Any type of media created by the user, including text and images.
* **Authentication:** The process of verifying a user’s identity.

**6. Constraints**

* The system will be developed using the MEAN (Mongo DB, Express.js, Angular, Node.js) stack or MERN (Mongo DB, Express.js, React, Node.js).
* The application will be designed to run on modern web browsers (Chrome, Firefox and Safari).

**7. Design and Implementation Constraints**

* The user interface will follow responsive design principles.
* API endpoints will adhere to Restful principles.

## **8. Benefits**

* The user will be able to search blog using categories.
* The User will be able to write blog more precisely using the added feature of chatgpt integration.
* The User will also get templates to write blog according to his topic or category of blog.
* The reader will be able to get more accurate idea by reading the experience of blog writer.

**9. Conclusions**

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