

# Software Requirements Specification (SRS) for Blog

1. **Overview:** This blog project is centred around creating a user-friendly and feature-rich platform that facilitates content creation, sharing, and engagement. The primary functionalities include user management, content creation and management, comment interaction, advanced search and navigation, social sharing, and user engagement features. The blog will support user registration and profiles, allowing authors to create, edit, and categorise their posts. Readers can leave comments, like posts, and follow their favourite authors. The responsive design ensures accessibility across devices, while the admin panel empowers administrators to manage users, content, and analytics.
2. **Scope:** The scope of the blog project encompasses a range of features and functionalities designed to create a dynamic and engaging platform for authors and readers. The blog aims to offer a seamless and user-friendly experience, enabling content creators to publish their thoughts and interact with their audience effectively.

### 3. Features of Blog

#### 3.1. User Management:

- User Registration: Allow users to create accounts using their email addresses or social media profiles.
- User Login: Provide a secure login mechanism for registered users.
- User Profiles: Allow users to create and manage their profiles, including profile pictures and personal information.

#### 3.2. Blog Content Management:

- Create Blog Posts: Enable authors to create and publish new blog posts.
- Edit and Update Posts: Allow authors to edit and update their published posts.
- Post Categories and Tags: Categorize posts into different topics or tags for easy navigation.
- Drafts and Scheduled Posts: Allow authors to save drafts and schedule posts for future publishing.
- Delete Posts: Provide an option for authors to delete their posts.

#### 3.3. Commenting System:

- Leave Comments: Allow users to leave comments on published blog posts.
- Comment Moderation: Implement a moderation system to review and approve comments before they are displayed.

- Delete Comments: Allow authors and administrators to delete inappropriate or irrelevant comments.

3.4. Search and Navigation:

- Search Functionality: Implement a search bar for users to search for specific blog posts.
- Post Navigation: Provide navigation options such as "Next Post" and "Previous Post."
- Sorting and Filtering: Allow users to sort and filter posts based on criteria like date, popularity, or category.

3.5. Social Sharing:

- Social Media Sharing: Integrate social media sharing buttons to allow users to share posts on platforms like Facebook, Twitter, etc.

3.6. User Interaction

- Like/Favourite Posts: Allow users to indicate their appreciation for posts by liking or favoriting them.
- Follow Authors: Enable users to follow their favourite authors and receive updates about their new posts.
- Notifications: Notify users about comments on their posts, likes, and new posts from following authors.

3.7. User Interaction

- Post Analytics: Provide authors with insights into post performance, such as views, likes, and comments.
- User Analytics: Admins can view user engagement metrics and demographics.

3.8. Security and Privacy:

- User Data Protection: Implement security measures to safeguard user data and prevent unauthorised access.
- Privacy Settings: Allow users to manage their privacy settings, such as choosing who can comment on their posts.

3.9. Responsive Design:

- Ensure the blog is accessible and usable on various devices, including desktops, tablets, and smartphones.

3.10. Admin Panel:

- Dashboard: Provide administrators with a dashboard to manage posts, users, and comments.
- User Management: Allow admins to manage user accounts and roles.
- Content Moderation: Enable admins to moderate comments and posts.

## **4. Functional Requirements**

- 4.1. User Management:
  - User Registration
  - User Login and Authentication
  - User Profiles
- 4.2. Content Management:
  - Creating and Editing Blog Posts
  - Categorizing and Tagging Posts
  - Deleting Posts
- 4.3. Commenting System:
  - User Comments on Blog Posts
  - Comment Moderation
  - Comment Deletion
- 4.4. Search and Navigation:
  - Search Functionality for Blog Posts
  - Navigation through Posts
  - Sorting and Filtering Options
- 4.5. Social Sharing:
  - Sharing Posts on Social Media Platforms
  - Sharing Posts via Email
- 4.6. User Interaction:
  - Like/Favourite Posts
  - Following Authors
  - Notifications for Comments and Likes

## **5. Non-Functional Requirements:**

- 5.1. Performance:
  - Page Load Times
  - Concurrent User Handling
- 5.2. Usability:
  - Responsive Design for Different Devices
  - User-Friendly Navigation
- 5.3. Security:
  - User Data Protection
  - Authentication and Authorization Mechanisms

5.4. Reliability:

- Uptime Expectations
- Error Handling and Recovery

6. **Technology Stack:**

- 6.1. Programming Languages ( HTML, CSS, JavaScript)
- 6.2. Programming Languages (node js , react js )
- 6.3. Database Management System (MongoDB)
- 6.4. Hosting Platform (AWS)