

## **Scope of Blog Writing Web Application**

### **1. Introduction**

The Blog Writing Web Application is designed to provide users with an intuitive platform for writing, editing, managing, and publishing blog posts. The application will cater to writers, bloggers, and content creators, offering them a seamless, feature-rich environment to create and maintain their blogs. This document outlines the key features, functionalities, and requirements for the application.

### **2. Core Features and Functionalities**

#### **2.1 User Management**

- **User Registration & Authentication**
  - Users can sign up and log in via email/password.
  - Forgot password functionality and email verification during registration.
  - Role-based access control (Admin, Writer, Reader).
- **User Profile**
  - Ability for users to manage their profile (username, email, password, profile picture).
  - Option to link to social media accounts (Twitter, LinkedIn, etc.)\*

#### **2.2 Blog Post Creation**

- **Post Editor**
  - A rich text editor (WYSIWYG) to create and format blog content, including text, images.
  - Markdown support for users who prefer writing in markdown.\*
- **Categories and Tags**
  - Ability to assign categories and tags to each blog post for better organization and searchability.
- **Post Publishing**
  - Option to mark a post as "Draft", "Published", or "Archived".

#### **2.3 Media Management**

- **Image Upload**
  - Users can upload images directly to the platform.
  - Ability to resize, crop, and add alt text to images.\*
- **Media Library**
  - A library to manage uploaded files, including an option to search, filter, and organize media assets.

#### **2.4 Comments and Interaction**

- **Commenting System**
  - Readers can leave comments on blog posts.
  - Option for users to reply to comments and like or upvote comments.
- **Notifications**
  - Email notifications for new comments, replies, or mentions.
  - In-app notifications for user interactions (likes, follows, replies).

#### **2.5 Blog Management Dashboard (Admin/Writer View)**

- **Post Overview**
  - Dashboard overview of all blog posts, including drafts, published, and archived content.
- **Content Moderation**
  - Admins can approve, reject, or delete blog posts.
- **User Management**
  - Admins can view user profiles, assign roles (admin, writer, reader), and manage user permissions.

### **3. Additional Features**

#### **3.1 Mobile Optimization\***

- The web application must be responsive, providing an optimal user experience on both desktop and mobile devices.
- A mobile-friendly blog post editor to allow writers to compose and publish posts on the go.

### **4. Technical Requirements**

#### **4.1 Front-End Technologies**

- Responsive front-end built with HTML5, CSS3, and JavaScript (React, Vue.js, or Angular).
- Integration with a rich text editor (e.g., Quill.js or CKEditor).

#### **4.2 Back-End Technologies\***

- Database management using relational (MySQL) databases.

#### **4.3 Hosting and Deployment**

- Cloud hosting service: AWS.

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

#### **5.1 Performance**

- Fast load times (less than 3 seconds for the homepage and blog posts).

#### **5.2 Usability**

- User-friendly interface with an intuitive layout and design.
- Accessibility features, including screen reader compatibility and keyboard navigation.

### **6. Conclusion**

The Blog Writing Web Application will offer a comprehensive platform for users to create, manage, and interact with blog content. By focusing on ease of use, content discovery, and community engagement, this application will empower content creators while offering an enriching experience for readers keeping aesthetics and ergonomics in mind. This scope document outlines the key features and technical requirements necessary to meet these goals and deliver a high-quality (web pages) product.