

# Blog-Post System Documentation

## Introduction

Blog-Post is a comprehensive web application designed to provide users with an interactive platform for creating and managing blog posts. Our system facilitates seamless user interactions, allowing individuals to create accounts, log in, and contribute content across various categories. Beyond posting, users can engage with each other's content through ratings, enhancing the community experience. Blog-Post also includes robust account management features, enabling users to customize their profiles and secure their information. The platform's intuitive design ensures ease of use while providing advanced functionalities for content management and social interaction.

## General Objectives

The primary objective of Blog-Post is to create a dynamic and user-friendly platform that encourages content creation and community engagement. The system aims to achieve the following overarching goals:

- 1. Content Creation:** Empower users to easily create and publish blog posts across diverse categories, fostering a rich content environment.
- 2. User Engagement:** Facilitate interaction through content rating, encouraging users to provide feedback and engage with each other's posts.
- 3. Account Management:** Provide comprehensive account management features, allowing users to maintain and customize their profiles.
- 4. Content Discovery:** Enable users to search for posts by categories, making it easier to find and explore content of interest.

**5. Community Building:** Promote a collaborative and interactive community where users can share knowledge, opinions, and experiences.

## **Specific Objectives**

To achieve the general objectives, Blog-Post focuses on several specific goals:

### **1. User Registration and Authentication:**

- Implement a secure and straightforward registration process.
- Enable users to log in and out securely.

### **2. Content Management:**

- Allow users to create, edit, and delete their blog posts.
- Categorize posts to organize content effectively.

### **3. Interaction and Feedback:**

- Enable users to rate blog posts, providing a system for feedback and engagement.

### **4. Profile Customization:**

- Allow users to update their profile information, including changing passwords, names, and email addresses.
- Provide options for password reset and account deletion.

### **5. Search and Discovery:**

- Implement search functionality to allow users to find posts based on categories and keywords.

## **Functional Requirements**

The Blog-Post system is designed to meet the following functional requirements, ensuring a comprehensive and user-centric platform:

### **User Registration and Authentication**

#### **1. User Registration:**

- Users should be able to register by providing a unique username, email address, and password.
- The system should validate the email format and ensure password strength.

#### **2. User Login:**

- Registered users should be able to log in using their email and password.
- Implement session management to keep users logged in securely.

### **Content Management**

#### **1. Create Post:**

- Users should be able to create new blog posts, including a title, content, and category selection.
- Optionally, users can upload images and videos to enhance their posts.

#### **2. Edit Post:**

- Users should have the ability to edit their existing posts, allowing updates to the content and media.

#### **3. Delete Post:**

- Users should be able to delete their posts, removing them from the system.

## **Interaction and Feedback**

### **1. Post Rating:**

- Implement a rating system where users can rate posts on a scale 1 to 5 stars
- Display average ratings on each post to indicate user feedback.

## **Profile Customization**

### **1. Change Password:**

- Users should be able to change their password through their profile settings.
- The system should require the current password to validate the change.

### **2. Change Name and Email:**

- Users should have the option to update their name and email address.
- Validate the new email format and ensure it is unique.

### **3. Reset Password:**

- Provide a password reset functionality that sends a reset link to the user's registered email address.

### **4. Delete Account:**

- Users should have the ability to delete their account, removing all associated data from the system.

## **Search and Discovery**

### **1. Search Posts:**

- Implement a search feature that allows users to find posts by entering keywords.
- Filter search results by categories to refine content discovery.

### **2. View Posts by Category:**

- Allow users to browse posts within specific categories, facilitating targeted content exploration.

By implementing these functional requirements, Blog-Post aims to provide a robust, user-friendly platform for creating, managing, and discovering blog content. The system's focus on interactivity, customization, and ease of use ensures a satisfying experience for all users, fostering a vibrant online community.