University Of Information Technology And Sciences (UITS)

Course:
Software Engineering and System Analysis Lab
CSE356

Software Requirements Specification (SRS):

Project Title:
— Minimal, Distraction-Free Blogging Web App

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1. Introduction

1.1 Purpose

The purpose of this document is to outline the software requirements for the development of a Minimal, Distraction-Free Blogging Web App. The focus of this project is to deliver a user-friendly, minimalistic blogging platform that emphasizes simplicity and distraction-free content creation and management.

1.2 Intended Audience

- Users who likes clean, minimal and destraction-free environment.

1.3 Project Scope

The Minimal, Distraction-Free Blogging Web App will offer users a simple platform to create, manage, and publish blog posts without distractions such as ads or cluttered interfaces. It will focus on a clean user experience with essential features for blogging, such as a rich text editor and markdown support, as well as customizable themes for day and night modes.

1.4 References

- Minimal Design: https://www.canva.com/learn/minimalist-design-beautiful-examples-and-practical-tips/
- Ted Blog: https://blog.ted.com/

2. Overall Description

2.1 Product Perspective

The product is a web-based blogging platform that eliminates unnecessary features found in many existing platforms, focusing purely on content creation and management. Built using the Django framework, the app will ensure fast load times, a smooth user experience, and reliable security for user data. It offers a minimalistic design and distraction-free mode to improve writing focus and user engagement.

2.2 User Classes and Characteristics

- Blog Writers: The primary users who will write and publish blog content.
- Blog Readers: Users who will read content published on the platform.
- Admin Users: Responsible for overseeing content, managing users, and handling backend maintenance tasks.

3. System Features

3.1 Functional Requirements

- User Registration and Authentication: Users should be able to create accounts, log in, and manage their profiles.
- Blog Post Creation and Management: Users can create, edit, and delete blog posts using a simple, distraction-free interface.
- Rich Text and Markdown Editor: Provide support for both rich text and markdown for users to format their posts.
- Customization Options: Day/night themes and font adjustments should be available to customize the user reading and writing experience.
- Minimalistic UI: A clean interface that eliminates unnecessary elements, ensuring focus on content creation and consumption.
- Content Publishing: Users can publish their posts, which will be available publicly or privately, depending on their preferences.

4. External Interface Requirements

- Web Browsers: The app must function on modern browsers, such as Chrome, Firefox, and Safari.
- Database: Initially, SQLite will be used for development, with potential migration to PostgreSQL for scaling.
- Third-Party Libraries: The Django framework, along with any required libraries for markdown support, UI design, and security, will be integrated.

5. Non-functional Requirements

5.1 Performance Requirements

- Load Times: The web app must have a fast response time, with pages loading within 3 seconds.
- Scalability: The app should be able to handle increasing traffic as the user base grows, with options for scaling on cloud platforms like Heroku or Vercel.

5.2 Safety/Security Requirements

- Data Encryption: All sensitive data (e.g., passwords, user information) must be securely encrypted both at rest and in transit.
- Backup Procedures: Automated backups will be implemented to prevent data loss.
- User Authentication: Secure user authentication processes, including password hashing, will be employed to safeguard accounts.