**SRS**

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4. **Introduction**
   1. **Purpose**

The purpose of this document is to provide a detailed description of the Blog & Beyond website. It defines the system's functionalities, its intended users, and the technical aspects involved in its development and use.

* 1. **Scope**

Blog & Beyond is a blogging platform that enables users to create, edit, publish, and delete blog posts. The website provides a user-friendly interface for blogging, allowing users to register, log in, and interact with content. The platform includes features such as theme toggling to enhance user engagement.

* 1. **Abbreviations and Definition**
* HTML: Hypertext Markup Language
* CSS: Cascading Style Sheets
* JS: JavaScript

**1.4 Overview**

This document outlines the functional and non-functional requirements of the Blog & Beyond website, describing its structure, user characteristics, constraints, and technology stack.

1. **Overall Description**
   1. **Product Perspective**

**2.1.1 Product function**

The Blog & Beyond website provides the following functionalities:

1. User authentication (registration and login)
2. Blog creation
3. Blog editing
4. Blog deletion
5. Theme toggling for light/dark mode
6. Responsive UI for better accessibility
   * 1. **Hardware Interface**

**Client side:**

Processor: Pentium P2 onwards RAM: 512Mb or more

Hard disk: 256Mb or more

**Server side:**

Processor: Multi-core CPU RAM: 4GB or more

Storage: 50GB or more

Database: MongoDB

* + 1. **Software Interface**

Client side: Operating system: Any OS compatible with a web browser Browser: Any modern browser supporting JavaScript

Server side: Operating system: Windows

Database: MongoDB

Backend: Node.js , Express.js

* + 1. **Communication Interface**

HTTP, HTTPS, TCP/IP

* 1. **General Constraints**
* 24/7 hours available.
* User must have an account to create and read blogs
  1. **Technologies used**

Frontend: **HTML, CSS, JavaScript,** EJS, Tailwind CSS, FontAwesome

Backend: Node.js,Express.js

Database: MongoDB , **Mongoose**

**Authentication and security: bcryptjs,** jsonwebtoken (JWT), cookie-parser

Version Control: GitHub

1. **Specific Requirements**
   1. **Functional –requirements**
   2. User Registration: Users can register an account.
   3. User Login: Users can log in and manage their blogs.
   4. Create Blog: Users can write and publish blog posts.
   5. Edit Blog: Users can modify existing blog posts.
   6. Delete Blog: Users can remove their blogs from the platform.
   7. Theme Toggle : Users can switch between light and dark mode.
2. Responsive UI : The website must be mobile-friendly.
   1. **Non-Functional Requirements**
3. Availability: The platform should have 99.9% uptime.
4. Security: Secure authentication and encrypted data storage.
5. Reliability: The system should handle multiple concurrent users efficiently.
6. Maintainability: The codebase should follow best practices for easy maintenance and updates.
7. Top of Form

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