**Software Requirements Specification**

**for**

**Thunder Blog Web Application**

**ThunderBlog.inc**

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1. **Purpose:**
   1. **Motivations:**

The need for a fast and reliable yet lightweight system so that any person can use it to publish their day-to-day stories, their opinions on contentious matters, and the freedom to do so with assured security.

* 1. **Goals:**

**1.** Creating a web application that is free to use but will be open for advertisements in the future**.**

**2.** Ensuring seamless user experience design a user-friendly and straight forward interface that’s easy to navigate.

**3.** Ensuring the system is safe and reliable. implementing measures such as user authentication and authorization, data encryption.

1. **Overview & Scope:**
   1. **Scope Statement:**

The Thunder Blog Web Application is going to be a comprehensive blogging platform that allows users to publish and share their stories and opinions securely. This includes designing and implementing the user interface, integrating robust security measures, and ensuring scalability for future growth. The application will be accessible via all web browsers on both computers and mobile devices and will initially support basic text and pictures. The project excludes advanced features such as real-time collaboration, mobile application development, and data analytics.

The website will need a database management system for storing user data, and network infrastructure for data transfer. The project timeline spans from initial development to deployment and post-launch maintenance, with key milestones including design, development, testing, and rollout phases.

* 1. **Key Stakeholders:**

1. Real Users (Bloggers).

**2.** Developers & Administrators.

**3.** Marketing Department.

**4.** Online Advertisers.

**5.** Social Media Stars.

**6.** Consumers/Readers.

1. **Requirements:**
   1. **System Overlook (UML Diagram):**

**A screenshot of a computer screen

Description automatically generated**

* 1. **The Functional Requirements:**

1. The website shall have an interactive and smooth sailing interface that is easy to figure out.
2. The user shall be able to view all the blogs without having to register.
3. The user shall be authenticated.
4. The user shall navigate the website throw the navigation bar.
5. The user shall be able to register with their Name, Email and Password.
6. The user shall be able to leave the website and return and be able to log in using their Email and Password to their account without having to register.
7. The logged-in user shall be able to write a blog in a designates section and publish it, and other users will be able to view it.
8. The logged-in user shall be able to view the blogs they have written in the past.
9. The logged-in user shall be able to view their account information, the same ones they had registered with.
10. The user shall be able to search throw a history of the blogs.
11. The user shall be able to log out of their account at any moment.
    1. **The Non-Functional Requirements (Quilty Requirements):**
12. The system shall respond to user actions within an acceptable timeframe, with a maximum response time of 3 seconds for standard operations.
13. The system shall be safe and secure, the data shall be safe and encrypted.
14. The application shall be able to handle increasing traffic and data volume efficiently.
15. The system shall be available for access 24/7, with an uptime of at least 99.9% excluding scheduled maintenance windows. This ensures that users can access the platform whenever they need to without significant interruptions.