Software Requirements Specification (SRS)

1. Introduction

1.1 Purpose

This document specifies the requirements for a web-based task management tool. The tool will allow users to create, manage, and track tasks.

1.2 Scope

The task management tool will include features such as task creation, editing, deletion, categorization, and status tracking. The system will be accessible via a web browser.

1.3 Definitions, Acronyms, and Abbreviations

- **Task:** An individual item of work.

- **User:** Anyone who uses the task management tool.

1.4 References

- IEEE SRS Standards

- Web Technologies: HTML, CSS, JavaScript, PHP, MySQL

1.5 Overview

The document includes the overall description of the system, specific requirements, and any other necessary specifications.

2. Overall Description

2.1 Product Perspective

The task management tool is a standalone web application. It interacts with a backend database to store and retrieve tasks.

2.2 Product Functions

- User Registration and Login

- Task Creation

- Task Editing

- Task Deletion

- Task Categorization

- Task Status Tracking (e.g., To Do, In Progress, Done)

2.3 User Classes and Characteristics

- **Regular Users:** Can create, edit, and delete their tasks.

- **Admin Users:** Can manage all tasks and users.

2.4 Operating Environment

- **Client Side:** Modern web browsers (Chrome, Firefox, Safari)

- **Server Side:** Apache, PHP, MySQL

2.5 Design and Implementation Constraints

- Must follow web accessibility standards.

- Must be responsive to work on different screen sizes.

2.6 User Documentation

- User Manual

- Online Help

2.7 Assumptions and Dependencies

- Users have access to the internet.

- The system will be hosted on a reliable server.

3. Specific Requirements

3.1 Functional Requirements

- **User Registration and Login**

  - Users must register with a unique email and password.

  - Users must be able to log in with their email and password.

- **Task Management**

  - Users must be able to create a new task with a title and description.

  - Users must be able to edit existing tasks.

  - Users must be able to delete tasks.

  - Users must be able to categorize tasks.

  - Users must be able to change the status of tasks.

3.2 Non-Functional Requirements

- **Performance**

  - The system should handle up to 100 concurrent users.

- **Usability**

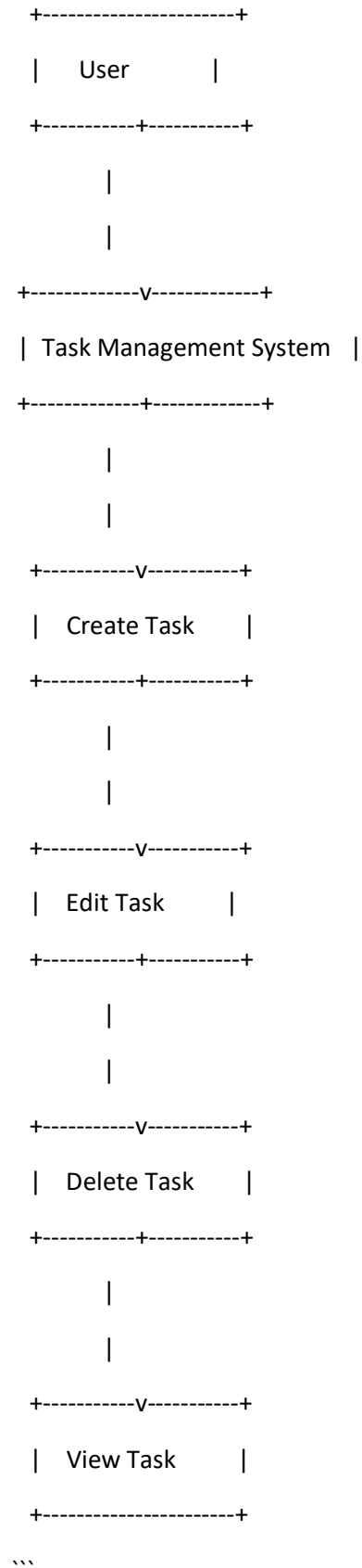 - The interface should be intuitive and easy to navigate.

- **Security**

  - User data must be stored securely.

  - Passwords must be encrypted.

4. Use Case Diagram


```

[Use Case Diagram: Task Management System]

```
        +----------------------+
        | User |
        +-----------+----------+
                    |
                    |
        +-----------v----------+
        | Task Management System |
        +------------+---------+
                     |
                     |
         +-----------v----------+
         | Create Task |
         +-----------+----------+
                     |
                     |
         +-----------v----------+
         | Edit Task |
         +-----------+----------+
                     |
                     |
         +-----------v----------+
         | Delete Task |
         +-----------+----------+
                     |
                     |
         +-----------v----------+
         | View Task |
         +----------------------+
```

#### 5. Appendices

**5.1 Glossary**

Definitions of terms and acronyms used in the document.

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