**Software Requirements Specification (SRS) Document**

**Society Management System - Web Based Application**

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**1. Introduction**

**1.1 Purpose**

The purpose of this document is to provide a detailed specification of the Society Management System, a web-based application that enables efficient management of various functionalities within a society.

**1.2 Scope**

The Society Management System aims to facilitate visitor details management by security guards, facility booking for house owners and tenants, and news and events management by the admin. The system will enhance communication and streamline operations within the society.

**1.3 Definitions, Acronyms, and Abbreviations**

- SRS: Software Requirements Specification

- SMS: Society Management System

**1.4 Overview**

This document outlines the requirements, features, and specifications of the Society Management System, including its functionalities for security guards, house owners and tenants, and the admin.

**2. Overall Description**

**2.1 Product Perspective**

The Society Management System is a standalone web application that interfaces with a database to manage society-related functionalities. It interacts with users through a user-friendly web interface.

**2.2 Product Functions**

The main functions of the Society Management System include:

- Security guards can record visitor details.

- House owners and tenants can book facilities and access news and event information.

- Admin can manage news and events.

**2.3 User Classes and Characteristics**

- Security Guards: Users responsible for managing visitor details.

- House Owners and Tenants: Users who can book facilities and access society news and events.

- Admin: Users with administrative privileges to manage news and events.

**2.4 Operating Environment**

The system will run on standard web browsers (e.g., Chrome, Firefox) and will be hosted on a web server.

**2.5 Design and Implementation Constraints**

- The system must adhere to web development best practices.

- Compatibility with modern web browsers is essential.

- Security measures must be implemented to protect user data.

**2.6 User Documentation**

Comprehensive user manuals and guides will be provided for each user class.

**2.7 Assumptions and Dependencies**

- Users have basic computer literacy.

- A stable internet connection is available for system access.

**3. Specific Requirements**

**3.1 External Interface Requirements**

**3.1.1 User Interfaces**

The user interfaces will be intuitive and user-friendly, designed to accommodate different user classes.

**3.1.2 Hardware Interfaces**

The system will operate on standard hardware configurations.

**3.1.3 Software Interfaces**

The system will interact with a database management system (e.g., MySQL) for data storage.

**3.2 Functional Requirements**

**3.2.1 Security Guard Functionality**

- Record visitor details, including name, contact information, purpose of visit, and check-in/check-out times.

**3.2.2 House Owners and Tenants Functionality**

- Book facilities (party halls, guest houses) based on availability.

- Access and view upcoming events and news.

**3.2.3 Admin Functionality**

- Manage news and events by adding, updating, and deleting entries.

- Monitor user activities and manage user accounts.

**3.3 Performance Requirements**

- The system should respond to user interactions within 2 seconds.

- Concurrent user capacity should be at least 100 users.

**3.4 Design Constraints**

- The system design should be responsive and mobile-friendly.

**3.5 Non-Functional Requirements**

**3.5.1 Usability**

The user interface should be easy to navigate and understand.

**3.5.2 Reliability**

The system should operate without errors and handle user data securely.

**3.5.3 Security**

User data should be encrypted and stored securely. User authentication and authorization should be implemented.

**3.5.4 Availability**

The system should have at least 99% uptime.

**3.5.5 Scalability**

The system should be scalable to accommodate increased user loads.

**3.5.6 Maintainability**

The system should be easy to maintain, and updates should not disrupt user access.

**3.5.7 Portability**

The system should work across different web browsers and devices.

**4. System Features and Requirements**

**4.1 Security Guard Functionality**

**4.1.1 Visitor Details Management**

- The security guard can enter visitor details, including name, contact, purpose of visit, and check-in/check-out times.

- The system should generate a unique visitor ID for tracking purposes.

**4.2 House Owners and Tenants Functionality**

**4.2.1 Facility Booking**

- Users can view available facilities and book them based on their preferences and availability.

- Users can view their booking history.

**4.2.2 Upcoming Events and News**

- Users can access information about upcoming events and society news.

- The system should display event details, dates, and any associated documents.

**4.3 Admin Functionality**

**4.3.1 News and Events Management**

- Admin can add, update, and delete news and events.

- Admin can set event dates, descriptions, and associated files.

**5. Other Requirements**

**5.1 Legal and Regulatory Requirements**

The system should comply with relevant data protection and privacy regulations.

**5.2 Privacy Requirements**

User data should be kept private and not shared with unauthorized parties.

**5.3 Ethical Requirements**

The system should ensure fair and unbiased treatment of all users.

**6. Appendices**

**6.1 Glossary**

Define technical terms used in the document.

**6.2 Use Case Diagrams**

Include diagrams illustrating the interactions between users and the system.

**6.3 Mockups/Prototypes**

Provide visual representations of the user interfaces.

**6.4 Data Flow Diagrams**

Illustrate how data flows within the system.

**6.5 Entity-Relationship Diagrams**

Present the database structure and relationships between entities.

**6.6 References**

List all external sources and references used in creating the SRS.