

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.