**SOFTWARE REQUIREMENTS SPECIFICATION(SRS)**

**For Seminar Hall Booking Website**

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1. **Introduction**

**1.1 Purpose**

* *The purpose of this project is to design and develop a Seminar Hall Booking Website that allows users (students, faculty, and administration staff) to reserve seminar halls online. The system aims to eliminate manual processes, reduce conflicts in scheduling, and provide an efficient platform for managing seminar hall bookings.*

**1.2 Scope**

* *The Seminar Hall Booking Website will allow registered users to:*
* *View available seminar halls and their details.*
* *Check hall availability based on date and time.*
* *Book a hall for seminars, workshops, or events.*
* *Receive booking confirmation.*
* *Allow administrators to approve or reject bookings.*
* *This system will be accessible via web browsers and can be used by students, faculty, and administrators within the institution.*

**1.3 Definitions, Acronyms, and Abbreviations**

* *SRS – Software Requirement Specification*
* *UI – User Interface*
* *DBMS – Database Management System*
* *Admin – Administrator of the system*

**1.4 References**

* *IEEE Standard for SRS Documentation.*
* *Academic guidelines for project documentation.*

**2. Overall Description**

**2.1 Product Perspective**

* *The Seminar Hall Booking Website will be a web-based application. It will consist of three types of users:*
* *Students/Faculty – who request booking of seminar halls.*
* *Administrator – who approves, rejects, or manages booking requests.*
* *Guests – who can only view hall details (optional).*
* *The system will interact with a central database that stores information about seminar halls, availability, and booking records.*

**2.2 Product Functions**

* *User Registration/Login*
* *View Hall Availability*
* *Book Seminar Hall*
* *Booking Confirmation/Notification*
* *Admin Approval System*
* *View Booking History*

**2.3 User Characteristics**

* *Students/Faculty: Basic knowledge of internet browsing.*
* *Administrator: Responsible for managing hall availability and bookings.*
* *Guest Users: Only viewing permissions, no bookings allowed.*

**2.4 Constraints**

* *The system requires internet connectivity.*
* *Booking conflicts must be avoided.*
* *Users must be registered with valid institutional credentials.*

**2.5 Assumptions and Dependencies**

* *Users have access to devices with browsers.*
* *Database server is always active.*
* *Email/SMS notification system may depend on third-party services.*

**3.Specific Requirements**

***3.1 Functional Requirements***

* *User Authentication.*
* *Users must register/login before booking.*
* *Booking System*
* *Users can select hall, date, and time.*
* *System checks availability before confirmation.*
* *Admin Panel.*
* *Admin can approve/reject booking requests.*
* *Admin can update hall information.*
* *Notification System.*
* *Email or message confirmation for successful booking.*
* *Reports.*
* *Admin can view booking history.*

**3.2 Non-Functional Requirements**

* *Performance: The system should handle multiple users simultaneously.*
* *Reliability: Data must be consistent and accurate.*
* *Security: User data should be protected with authentication.*
* *Usability: User interface should be simple and easy to use.*

**3.3 Database Requirements**

* *Tables for users, seminar halls, booking records, and approvals.*
* *Each booking record must include hall ID, date, time, and status.*

**4. System Models**

***4.1 Use Case Diagram (Conceptual)***

* *Actors: Student/Faculty, Admin*
* *Use Cases: Login, Book Hall, View Availability, Approve Booking, View History*
* *(In academic submission, you can draw this as a simple UML diagram.)*

***4.2 Data Flow Diagram (DFD - Level 0)***

* *User → Booking Request → System → Database → Admin Approval → Confirmation*

**5. Conclusion**

*The Seminar Hall Booking Website will provide a convenient, secure, and efficient way of reserving seminar halls in an institution. It eliminates manual processes, prevents scheduling conflicts, and enhances event management. This project can be extended in the future with features like online payment integration, mobile app support, and advanced analytics.*

**THANK YOU**

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