Software Requirements Specification

–Hospital Management System

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1. Objective and Scope

The objective of the Hospital Management System is to optimize hospital operations by efficiently managing patient data, staff scheduling, inventory control, billing, and reporting. It improves patient care and administrative performance.

The scope of the product includes the following basic features:

- Centralized system for patient information, medical history, appointments and prescriptions.
- Making tasks like billing, insurance processing, inventory management to be more efficient.
- Enabling online appointment booking, manage doctor schedules, and streamline patient check-in process.
- Managing staff information, payroll, and other administrative tasks.
- Generating reports on patients data, resource utilization and treatment costs

2. Project End Users

The project end users of hospital management system are doctors, nurses, patients and other staffs.

3. Functional Requirements

3.1 Patient Management

Administrator can add, edit and delete patient information. Doctors can view patient's medical history. Patients can access and update their personal information.

3.2 Appointment Scheduling

Patients can book appointments on online by selecting date, time and preferred doctor. Administrator manages doctor's schedule and availability and can send appointment confirmations.

3.3 Registration

Record patient information and insurance information at check-in. Verify insurance coverage and eligibility. Create unique patient identification numbers.

3.4 Inventory Management

It will make easier to maintain and manage hospital inventory that includes medicines, medical equipment and supplies.

3.5 Billing and Insurance

It will automate the accurate billing process, manages the payment records and to submit the insurance claims.

4. Non Functional Requirements

4.1 Performance

The system should be able to handle a large number of concurrent users efficiently. Even during peak hours, the system should respond to user actions quickly and effectively.

4.2 Security

The system should have strong security measures to protect patients data.

4.3 Reliability

The system should be highly reliable with minimal downtime and data loss.

5. Features

For patients: Book online appointments. Manage personal data and medical records. View test results and get in touch with doctors.

For doctors: Manage patients check-in and appointments. View the medical history of the patient. Automate tasks like billing, insurance and inventory.

Optimize productivity by simplifying processes. Automation can save time and reduce errors. Create reports to make better decisions.

6. Report

This SRS provides a standard level view of the Hospital Management System that includes workflows, patient care and other hospital operations. The next steps would include further detailing of requirements, followed by the design and implementation phases.