HOSPITAL MANAGEMENT SYSTEM

TEAM MEMBERS

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INTRODUCTION

- **Purpose**: To streamline hospital operations using a menu-driven terminal interface.

- **Scope**: Manage hospital operations like patient records, appointments, bed allocation, doctor access and billing.

- **Stakeholders**: Hospital receptionists, doctors, billing staff, patients and the IT development team.

PROJECT DESCRIPTION

The system is a Hospital Management Application that supports 3 roles. The system provides role-based access to ensure that each user can perform only the tasks relevant to their responsibilities.

- **Receptionist**: Add patients, Book Appointments, Track and Allocate beds and View patient details.

- **Doctor**: View and edit appointment schedules and view patient information.

- **Billing Staff**: Generate patient bills and Deallocate beds.

FUNCTIONAL MODULES

❖ **Receptionist**

  ➤ **Add patient**: Register new patient details.

  ➤ **Book Appointment**: Book appointment for specific doctors and give token.

  ➤ **Bed Allocation**: Allocate bed space according to specific category.

  ➤ **View patient details**: View detailed patient information

❖ **Doctor**

  ➤ **View Appointments**: Provide doctors with access to their appointment list and update appointment status.

  ➤ **View Patient details**: Doctors can access the specific patient information linked to their appointments.

❖ **Billing Staff**

  ➤ **Generate Bill**: Issue bill according to the patient services.

FUNCTIONAL REQUIREMENTS

- Patient registration and record management

- Appointment booking and scheduling

- Bed management (allocation/deallocation)

- Billing and invoice generation

- Doctor access to appointments and patient details

- Role based access control

NON-FUNCTIONAL REQUIREMENTS

- Simple and user-friendly interface

- Fast response for basic operations

- User input should be validated to avoid invalid entries.

- Code should be readable and structured.

- Easy to maintain and extend in future

FUTURE ENHANCEMENTS

- Online appointment booking for patients

- Automated SMS/email reminders for appointments and bills

- Integration with pharmacy and laboratory modules

- Electronic medical records with full patient history

- Multi branch hospital support under one system

CONCLUSION

The hospital management system provides a simple, role-based solution to handle patient records, appointments, bed management, billing, and doctor schedules. By reducing manual work and ensuring accurate data handling, the system improves efficiency and lays a foundation for future enhancements like online booking, notifications, and integrated medical records.