Hospital Management System

MANIPAL INSTITUTE OF TECHNOLOGY
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The Hospital Management System is a database-driven application designed to streamline hospital operations by managing patient records, staff details, appointments, and billing information efficiently. It uses a relational database to store and retrieve critical data, ensuring data integrity and ease of access. The system provides a user-friendly interface for seamless interaction and enhances operational efficiency in a healthcare environment.

Database Modules and Features

1. **Patient Module:** Manages patient profiles, including Patient_ID, Name, Age, Gender, and Contact.
2. **Doctor Module:** Stores doctor details such as Doctor_ID, Name, Specialization, and Availability.
3. **Medical History Module:** Records medical history with attributes like History_ID, Patient_ID, Diagnosis, Treatment, and Prescription.
4. **Appointment Module:** Tracks appointment details such as Appointment_ID, Patient_ID, Doctor_ID, Date, and Status.
5. **Scheduling Module:** Manages doctor schedules, including Schedule_ID, Doctor_ID, Available_Day, and Time Slots.
6. **Diagnosis Module:** Captures diagnosis details with fields like Diagnosis_ID, Patient_ID, Doctor_ID, and Description.
7. **Billing Module:** Handles billing information, including Bill_ID, Patient_ID, Total_Amount, and Payment_Status.
8. **Medical Inventory Module:** Tracks inventory details like Inventory_ID, Item_Name, Quantity, Vendor, and Expiry_Date.

Software Requirements

- Visual Studio C#, HTML, CSS, JavaScript/TypeScript and Python for responsive front end UI/UX Design of the application and for backend integration.
- MySQL and Oracle database for backend relational databases for storing data of different modules together.

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