

Hospital Management System

A. List of Processes

1. Patient Management

- Register Patient
- Update Patient Profile
- View Medical History

2. Appointment & Scheduling

- Book Appointment
- Cancel Appointment
- Assign Doctor

3. Medical Records & Diagnosis

- View Patient Records
- Diagnose Patient
- Prescribe Medicine
- Request Lab Tests
- View Lab Reports

4. Billing & Payment

- Generate Invoice
- Process Payment
- Manage Insurance

5. Pharmacy Management

- View Prescriptions
- Dispense Medicines
- Update Medicine Inventory

6. Laboratory & Reports

- Conduct Lab Tests
- Generate Reports
- Send Reports to Doctor

7. Admin & User Management

- Manage Users
- Manage Doctors & Staff
- Monitor System

B. List of Tables (Database Design)

1. Patients - Stores patient details (ID, name, age, contact, etc.)
2. Appointments - Stores appointment details (date, doctor, patient)
3. Doctors - Stores doctor details (ID, specialization, schedule)
4. MedicalRecords - Stores patient medical history
5. Prescriptions - Stores prescribed medicines by doctors
6. Payments - Stores payment records (bills, invoices, insurance)
7. Pharmacy - Stores medicine inventory details
8. LabReports - Stores lab test results and reports
9. Users - Stores login credentials of doctors, admin, staff

C. List of External Entities

1. Patient - Registers, books appointments, views medical records
2. Doctor - Diagnoses, prescribes medicines, checks reports
3. Receptionist - Manages appointments, patient registration
4. Admin - Manages system users, hospital data
5. Pharmacist - Dispenses medicines, updates inventory
6. Lab Technician - Conducts tests, generates reports
7. Insurance Company - Processes patient medical insurance
8. Payment Gateway - Handles online payments
9. Government Health Database - Sends hospital records, compliance data