- **Level 0 DFD of Healthcare Management System**

Nurse	←— patient room details — — room assignment updates, monitoring info →	**Hospital Management System**

Nurse ←— patient room details — Hospital Management System
Nurse — room assignment updates, monitoring info → Hospital Management System

Hospital Management System ←— ID, salary, work info — Employee
Hospital Management System — work assignments, payroll info → Employee

Receptionist — patient records — Hospital Management System

Hospital Management System — treatment info, bills, discharge info → Patient

Receptionist — appointment scheduling → Hospital Management System

Patient — personal details, appointment request → Hospital Management System

Doctor — prescriptions, treatment details → Hospital Management System

Hospital Management System — patient details, appointment info → Doctor
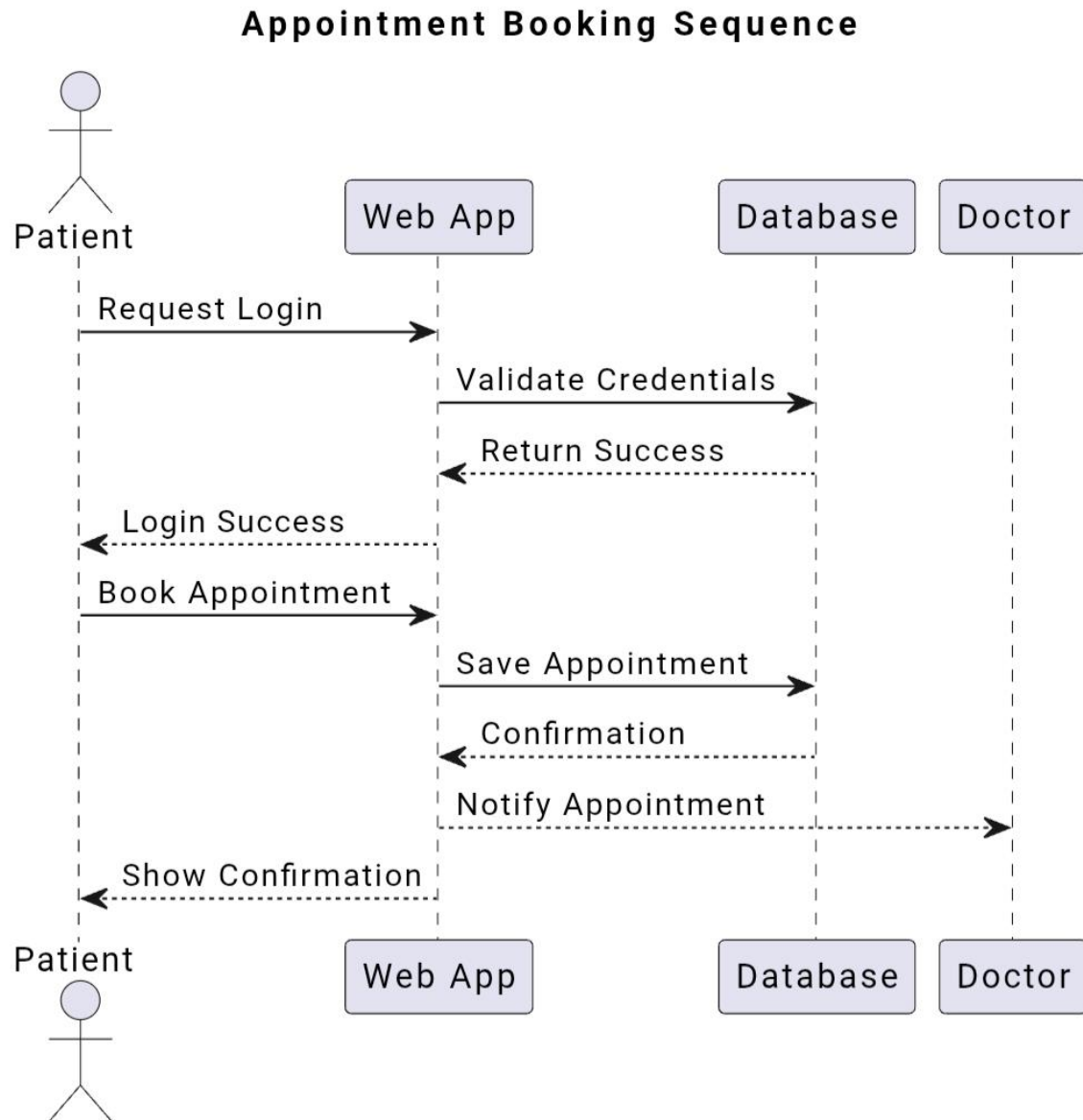
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- **Entity-Relationship Diagram of Healthcare Management System**
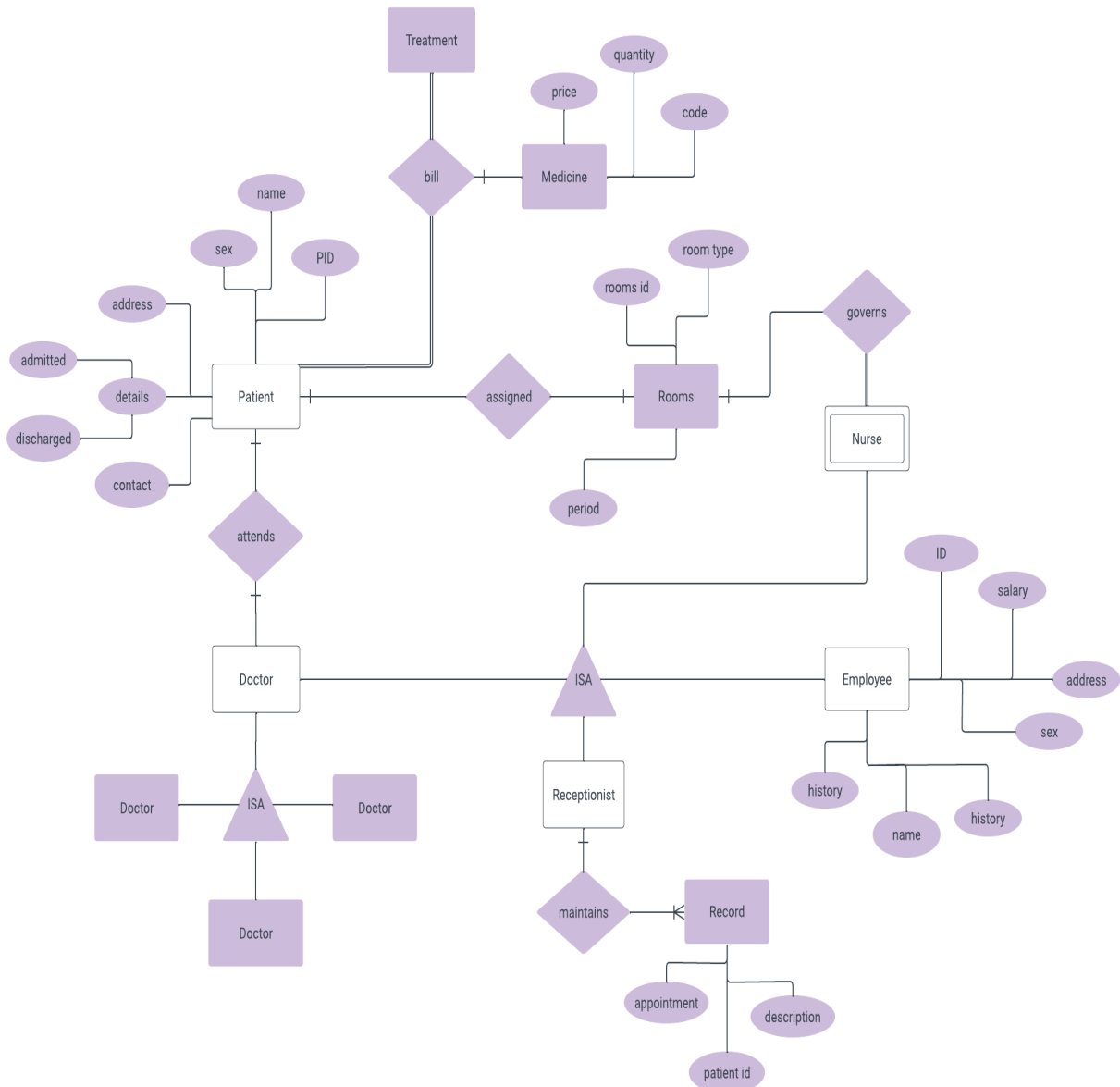
- **Use Case Diagram for Healthcare Management System**

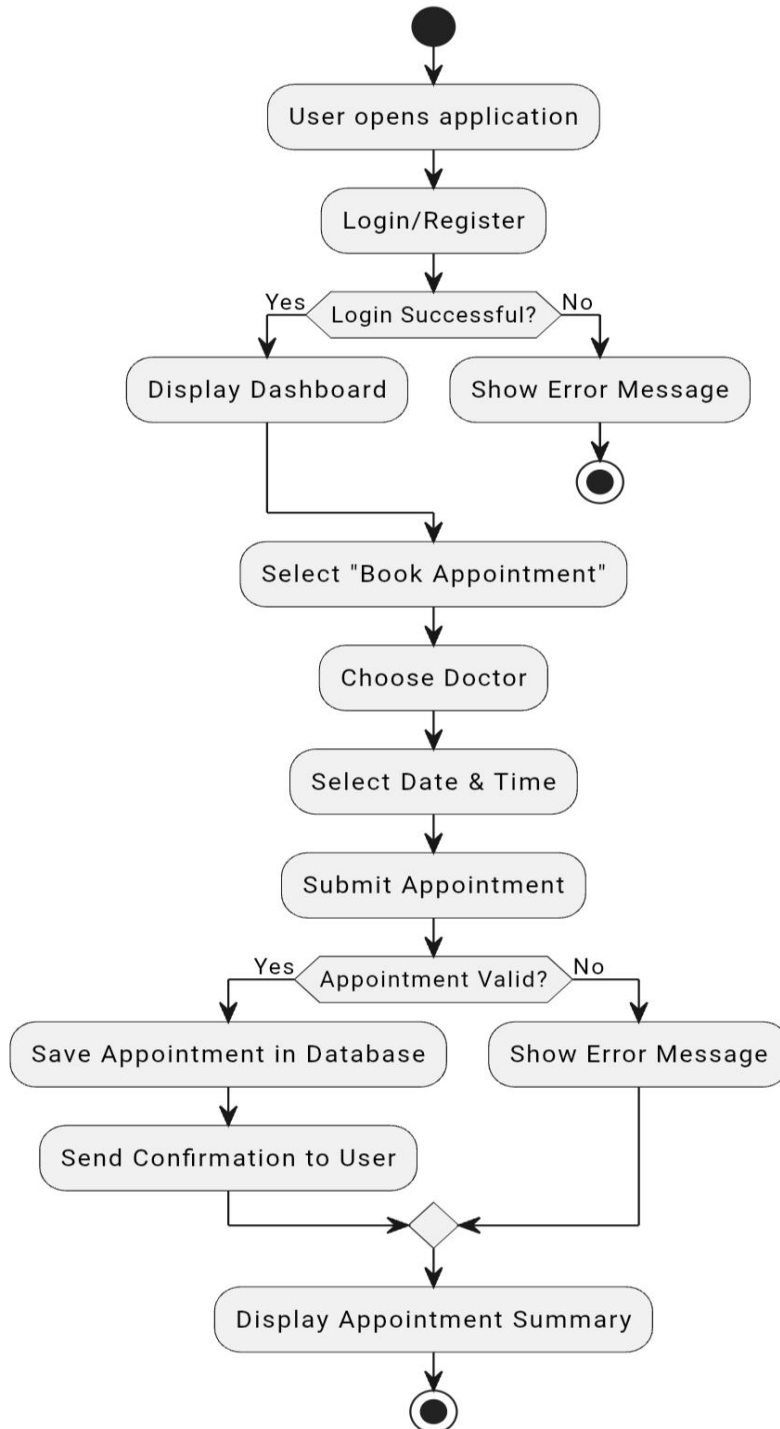Healthcare Management System - Use Case Diagram

Patient   Doctor   Admin

Healthcare System

(View Reports) (Book Appointment) (Register / Login) (Generate Reports) (Manage Doctors)
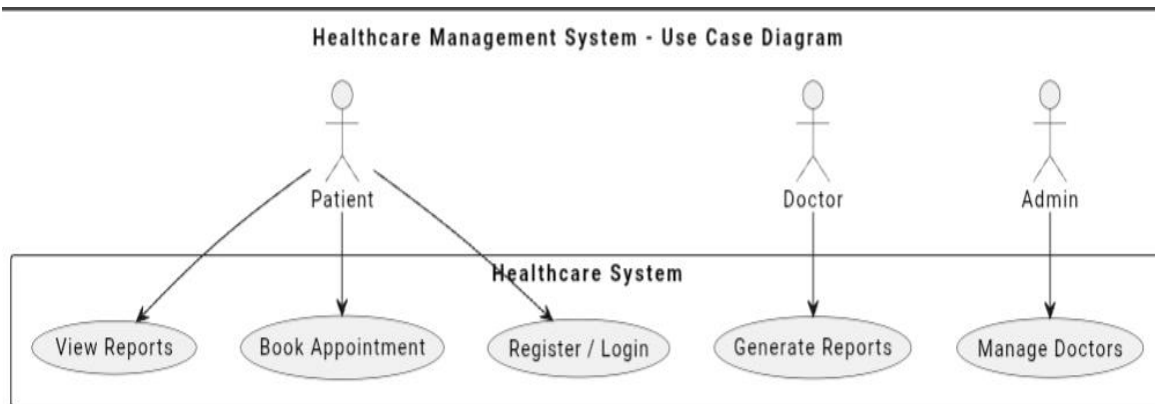
- **Sequence Diagram – Patient Treatment Flow**

Appointment Booking Sequence

• Activity Diagram for Appointment Booking

Activity Diagram - Appointment Booking

- **Class Diagram of Healthcare Management System**

Healthcare Management System - Class Diagram

Patient
- id: int
- name: string
- email: string

- bookAppointment()
- viewReports()

Doctor
- id: int
- name: string
- specialization: string

- viewAppointments()

Appointment
- appointmentId: int
- date: Date
- status: string

- create()
- cancel()

Report
- reportId: int
- details: string

- generate()

1 — many

1 — many

many — 1

many — 1