# Patient Appointment Management System

## **ADM25JS009**

Version 1.0

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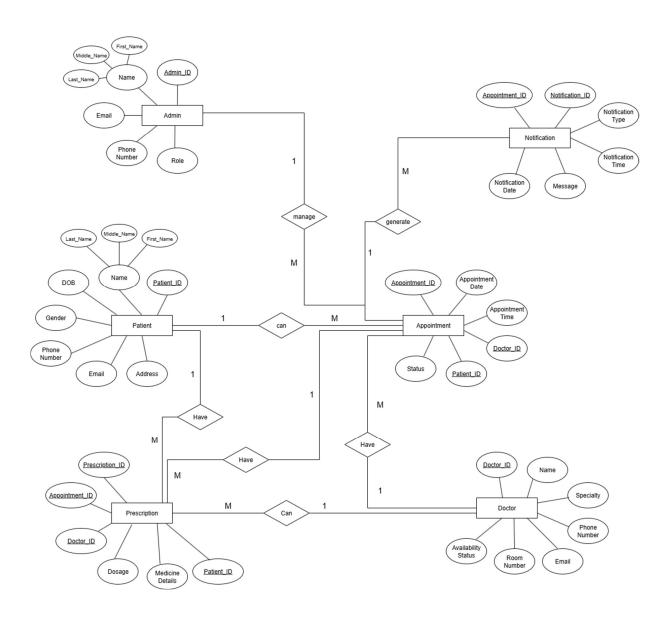
Git Hub Repository: <a href="https://github.com/kumar11jr/patient-appointment">https://github.com/kumar11jr/patient-appointment</a>

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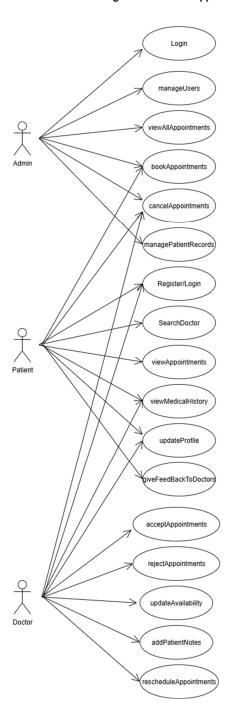
## 1. Entity Relationship Diagram (ERD)

#### E-R Diagram for Patient Appointment Management



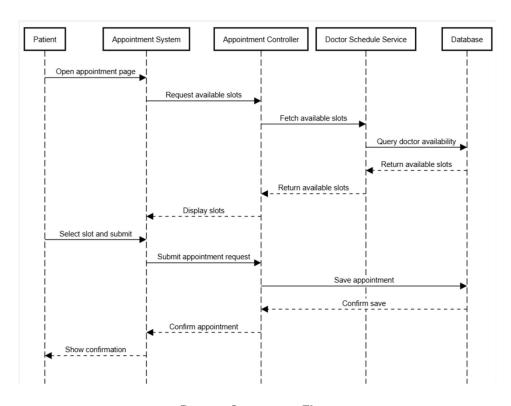
# 2. Use Case Diagram (USD)

## Use Case Diagram for Patient Appointment System

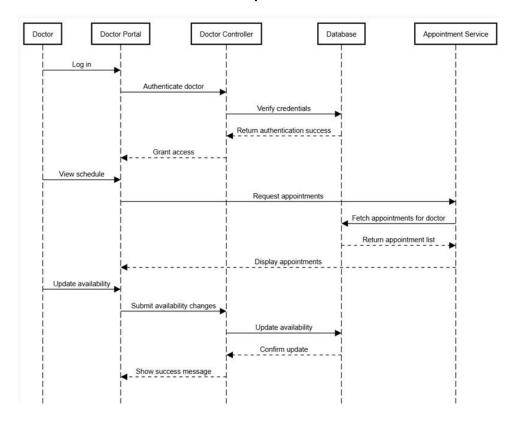


## 3. SD

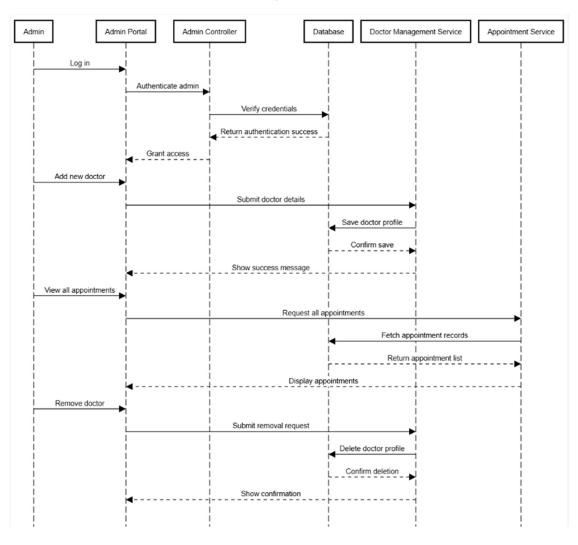
## **Patient Sequence Flow**



## **Doctor Sequence Flow**



# **Admin Sequence Flow**



#### 4. Class Diagram (CD)

#### **Patient**

Name : String - Patient\_ID : Int - Email : String - Address : String - Ph number: Int - DOB : Date - Gender : String

- + bookAppointment()
- + cancelAppointment()
- + register()
- + login()
- + searchDoctor()
- + viewAppointment()
- + viewMedicalHistory()
- + feedback()
- + updateProfile()

#### Admin

- Name: String - Email : String - Admin\_ID : Int - Ph\_Number : Int - Role : String

- + login()
- + manageUsers()
- + viewAllAppointments()
- + bookAppointments() + cancelAppointments()
- + managePatientRecords()

#### Doctor

Doctor\_ID: Int Name : String Speciality : String

Availability\_Status : Boolean Email : String

Room number: Int Ph\_Number : Int

- + cancelAppointments()
- + register()
- + login() + viewPatientHistory()
- + updateProfile()
- + addPatientNotes()
- + rejectAppointments()
- + updateAvailability()
- rescheduleAppointments()

#### Notification

- notificationID: String

- type: String - message: String - date Sent : Date - recipientID : String

- + sendNotifications()
- + scheduleNotification()
- viewNotificationHistory()

#### Appointment

- appointmentID : String
- patientID: String doctorID: String
- date : Date - time: Time
- status : String
- + bookAppointment()
- + cancelAppointment()
- + rescheduleAppointment()
- + viewAppointmentDetails()

# 5. Product Backlog (PB)

PB ID	User Story	Acceptance Criteria	Priority	Status
1	As an admin, I want to log in so that I can access admin features.	Admin can log in with valid credentials and access admin dashboard.	High	To Do
2	As an admin, I want to manage users so that I can add, update, or remove users.	Admin can add, edit, and delete users; changes are reflected in user list.	High	To Do
3	As an admin, I want to view all appointments so I can monitor scheduling.	Admin dashboard shows all upcoming and past appointments.	High	To Do
4	As a patient, I want to register/login so I can access the system.	Patient can register a new account or log in with existing credentials.	High	To Do
5	As a patient, I want to search for doctors so I can find a suitable doctor.	Patient can search doctors by name, specialty, or availability.	High	To Do
6	As a patient, I want to book appointments so I can schedule visits.	Patient can select doctor, date, and time; booking confirmation is shown.	High	To Do
7	As a patient, I want to view my appointments so I can keep track of them.	Patient dashboard lists all upcoming and past appointments.	High	To Do
8	As a patient, I want to cancel appointments so I can manage my schedule.	Patient can cancel an appointment and receive confirmation.	Medium	To Do
9	As a patient, I want to view my medical history so I can review past records.	Medical history is displayed with dates, doctors, and notes.	Medium	To Do
10	As a patient, I want to update my profile, so my information is current.	Patient can edit and save profile details.	Low	To Do
11	As a patient, I want to give feedback to doctors so I can share my experience.	Feedback form is available after appointments; feedback is saved.	Low	To Do
12	As a doctor, I want to accept appointments so I can confirm patient visits.	Doctor can accept appointments; patient is notified.	High	To Do
13	As a doctor, I want to reject appointments so I can manage my schedule.	Doctor can reject appointments; patient is notified.	High	To Do

14	As a doctor, I want to update my availability so patients can book accordingly.	Doctor can set available dates/times; changes are reflected in booking.	High	To Do
15	As a doctor, I want to add patient notes so I can keep records of visits.	Doctor can add and save notes for each patient appointment.	Medium	To Do
16	As a doctor, I want to reschedule appointments so I can adjust timing.	Doctor can propose new date/time; patient is notified.	Medium	To Do
17	As an admin, I want to manage patient records so I can ensure data accuracy.	Admin can view, edit, and delete patient records.	Medium	To Do