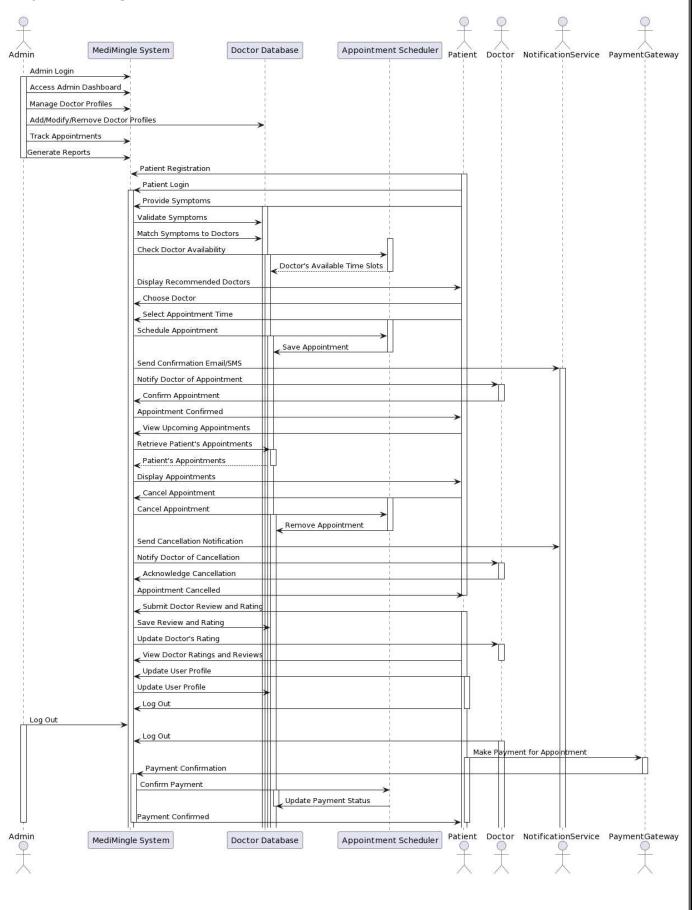
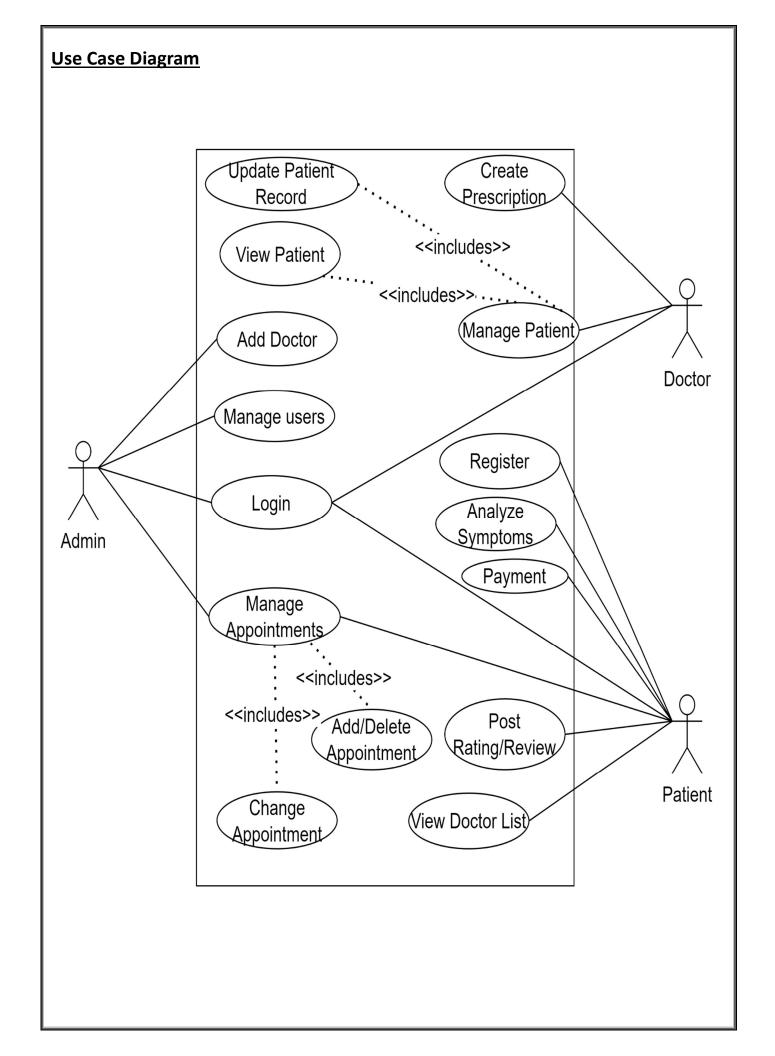
## **UML Diagrams**

### **Sequence Diagram**





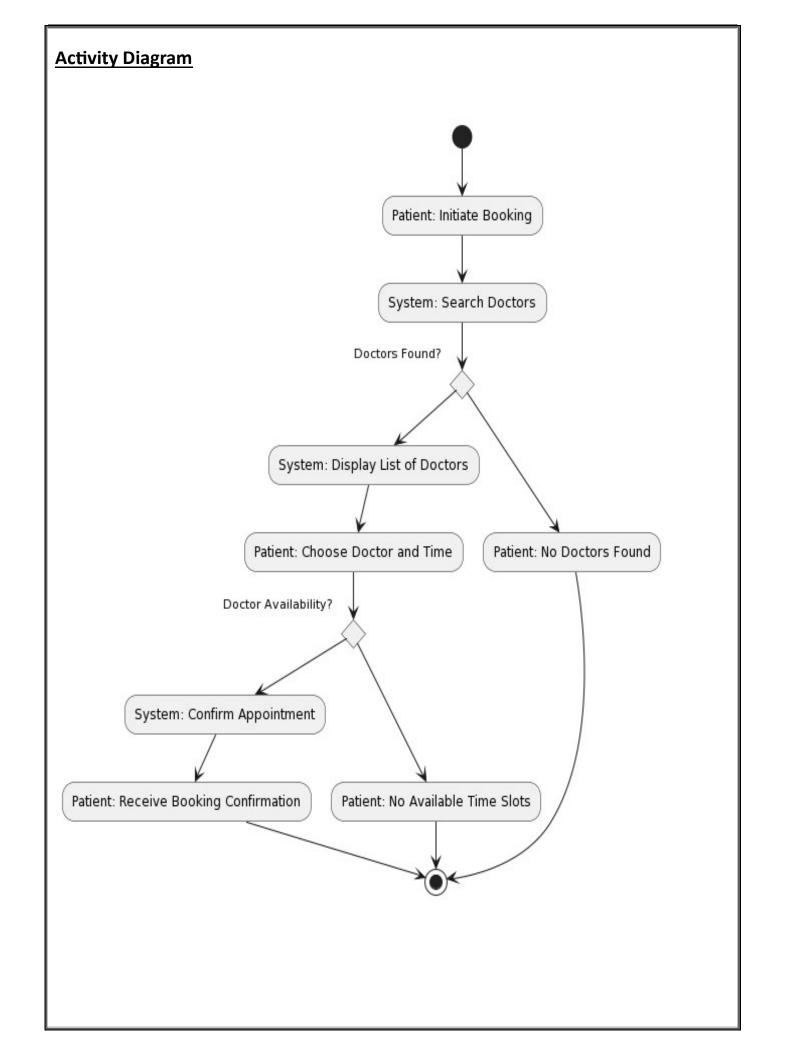
#### **Class Diagram** (C) Admin admin id: int addDoctor() modifyDoctor() removeDoctor() • generateReports() (C) User userID: int C Doctor username: string email: string doctorID: int password: string firstName: string firstName: string (c) Report lastName: string □ lastName: string □ specialties: List<string> □ reportID: int phoneNumber: string qualifications: string medicalHistory: string data: string contactDetails: string preferences: string availability: Schedule generateReport(): void o register() addDoctorProfile() login() modifyDoctorProfile() resetPassword() removeDoctorProfile() updateProfile() viewAppointments() cancelAppointment() C Appointment C Review appointmentID: int (c) Notification c SymptomAnalyzer reviewID: int doctor: Doctor C PaymentSystem doctor: Doctor patient: User sendAppointmentConfirmation() collectSymptoms() appointmentTime: DateTime user: User sendAppointmentReminder() validateSymptoms() makePayment() rating: int a status: string sendAppointmentChangeNotification() prepareSymptomData() comments: string scheduleAppointment() submitReviewAndRating() rescheduleAppointment() cancelAppointment() (C) SymptomData user: User symptoms: List<string> getUser() getSymptoms()

# **Object Diagram** Admin username = "admin" password = "admin123" email = "admin@example.com" Manages Doctor username = "drsmith" password = "doctor123" email = "dr.smith@example.com" specialties = ["Cardiology", "Internal Medicine"] qualifications = ["MD", "Board Certified"] contactInfo = "123 Main St, City" availability = ["Monday 9 AM - 12 PM", "Wednesday 2 PM - 5 PM"] Matches Manages Symptom symptomData = ["Fever", "Cough"] user = Patient validated = true Creates Belongs to Receives Patient username = "johndoe" password = "patient123" email = "john@example.com" Books Leaves

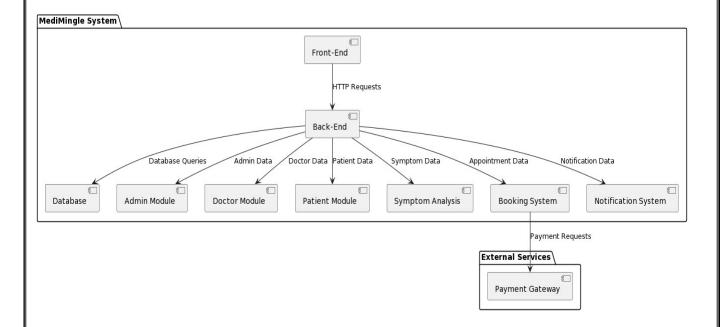
Appointment

doctor = Doctor
patient = Patient
dateTime = "2023-09-20 10:00 AM"
status = "Scheduled"

rating = 4 comments = "Great doctor!"



### **Component Diagram**



### **Deployment Diagram**

