**Use Case 1: Book Appointment  
Use Case Name: Book Appointment**

**Actors: Receptionist, Patient**

**Description: This use case lets a receptionist or patient schedule an appointment with a doctor.**

**Preconditions: The patient must already be registered in the system.**

**Postconditions: The appointment is successfully scheduled and saved in the system.**

**Main Flow:**

**Patient Registration:**

**Create an account to use the system.**

**Patient Login:**

**Sign in to manage appointments or personal information.**

**Patient Request Emergency Help:**

**Ask for urgent medical assistance.**

**Confirm Appointment:**

**Approve and confirm a scheduled appointment.**

**Book Appointment:**

**Schedule a meeting with a doctor.**

**Cancel Appointment:**

**Cancel an existing appointment.**

**Request Medicines:**

**Ask the pharmacy for needed medicines times.**

**The system checks the doctor's schedule.**

**The system confirms the appointment and updates the schedule.**

**Use Case 2: Administer Medication**  
**Use Case Name: Administer Medication**

**Actors: Nurse, Doctor**

**Description: This use case allows a nurse to give medication to a patient as prescribed by a doctor.**

**Preconditions: The patient must have a valid prescription in the system.**

**Postconditions: The medication given is recorded in the patient’s medical history.**

**Main Flow:**

**The nurse logs into the system.**

**The nurse retrieves the patient’s details.**

**The nurse confirms the prescribed medication.**

**The nurse administers the medication to the patient.**

**The system updates the patient’s medical history with details of the medication.**

**Use Case 3: Generate Billing**  
**Use Case Name: Generate Bills**

**Actors: Receptionist, Patient**

**Description: This use case allows a receptionist to create a bill for a patient after their medical appointment or procedure.**

**Preconditions: The patient must have completed an appointment or procedure.**

**Postconditions: A bill is created and saved in the system.**

**Main Flow:**

**The receptionist logs into the system.**

**The receptionist selects the option to generate a bill.**

**The receptionist enters the patient’s details, and the services provided.**

**The system calculates the total amount based on the services.**

**The system generates the bill and saves it in the system.**