**Use Case 1: Book Appointment**

**Use Case Name**: Book Appointment

**Actors**: Receptionist, Patient

**Description**: This use case allows a receptionist or patient to book an appointment with a doctor.

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

**Postconditions**: An appointment is scheduled and recorded in the system.

**Main Flow**:

The patient logs in.

The patient selects the "Book Appointment" option.

The patient enters the patient's details and research for appointment time.

The system checks the doctor's availability.

The system confirms the appointment and updates the schedule.

**Use Case 2: Administrate Medication**

**Use Case Name**: Administrate Medication

**Actors**: Nurse, Doctor

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

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

**Postconditions**: The medication administration is recorded in the patient's medical history.

**Main Flow**:

The nurse logs in.

The nurse retrieves patient's details.

The nurse confirms the medication.

The nurse administers the medication to the patient.

The system updates the patient's medical history with the administered medication details.

**Use Case 3: Generate Billing**

**Use Case Name**: Generate Bills

**Actors**: Receptionist, Patient

**Description**: This use case allows a billing clerk to generate a bill for a patient after a medical appointment or procedure.

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

**Postconditions**: A bill is generated and recorded in the system.

**Main Flow**:

The billing clerk logs in.

The billing clerk selects the "Generate Bill" option.

The billing clerk enters the patient’s details, and the services rendered.

The system calculates the total amount based on the services.

The system generates the bill and records it.