

EXPERIMENT 8

AIM:

To design a **Use Case Diagram** for the **Hospital Reception System**, which models the functionalities provided by the reception, including scheduling appointments, patient admissions, and payment processing.

PROCEDURE

1. Identify the Main Actors

- **Patient:** Seeks medical services from the hospital.
- **Receptionist:** Manages patient records, appointments, and payments.

2. Define Use Cases (Major Services)

- **Schedule Appointment:** Receptionist books an appointment for the patient with a doctor.
- **Patient Admission:** Receptionist registers an inpatient and assigns a bed in a ward.
- **Collect Patient Information:** Receptionist records patient details upon arrival.
- **Receive Payment:** Receptionist processes payments for consultations, treatment, or admission.
- **Manage Patient Records:** Updates patient details, including medical history and contact information.

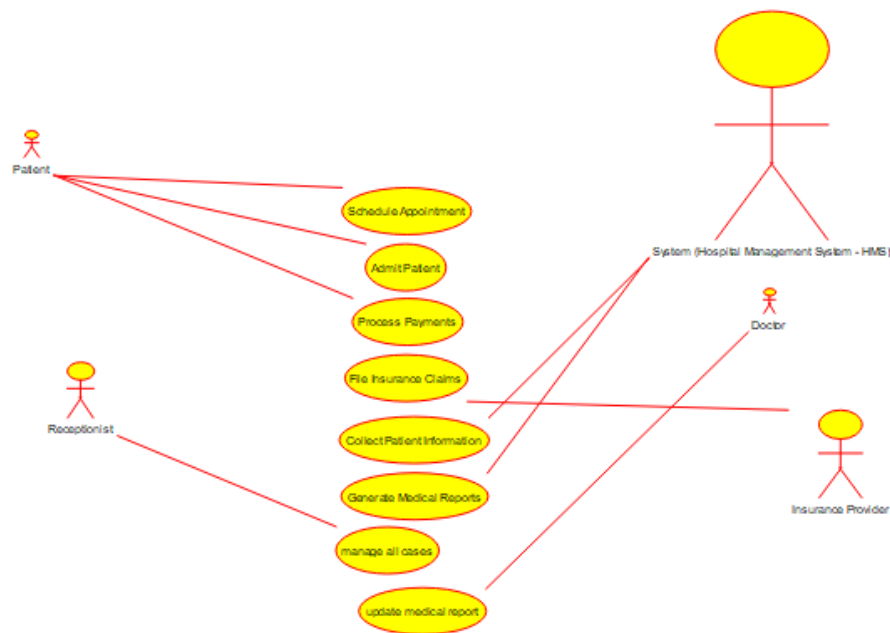
3. Define System Actions

- **Schedule Appointment:**
 - Checks doctor availability.
 - Assigns a time slot for the patient.
- **Patient Admission:**
 - Assigns a bed and room to the inpatient.
 - Updates hospital records.
- **Receive Payment:**
 - Processes consultation fees and admission charges.
 - Issues receipts for payments made.

4. Draw the Use Case Diagram

- **Actors:** Represent **Patient** and **Receptionist** as stick figures.
- **Use Cases:** Represent the functionalities (**Schedule Appointment, Patient Admission, Receive Payment, Manage Patient Records**) as ovals.
- **Associations:** Draw lines connecting the **Receptionist** to the respective use cases.

OUTPUT:



RESULT

The **Use Case Diagram** for the **Hospital Reception System** is successfully designed. It illustrates the interactions between the **Receptionist** and **Patients**, covering essential functionalities such as **appointment scheduling, patient admission, payment processing, and record management**.

This diagram effectively models the hospital reception's workflow and ensures a clear representation of its services.