EXPERIMENT 8

Describe major services (functionality) provided by a hospital's reception. Summary: Hospital Management System is a large system including severalsubsystems or modules providing variety of functions. Hospital Reception subsystemor module supports some of the many job duties of hospital receptionist. Receptionist schedules patient's appointments and admission to the hospital, collects information from patient upon patient's arrival and/or by phone. For the patient that will stay in the hospital ("inpatient") she or he should have a bedallotted in a ward. Receptionists might also receive patient's payments, record them in a database and provide receipts, file insurance claims and medical reports.

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:

USECASE DIAGRAM:
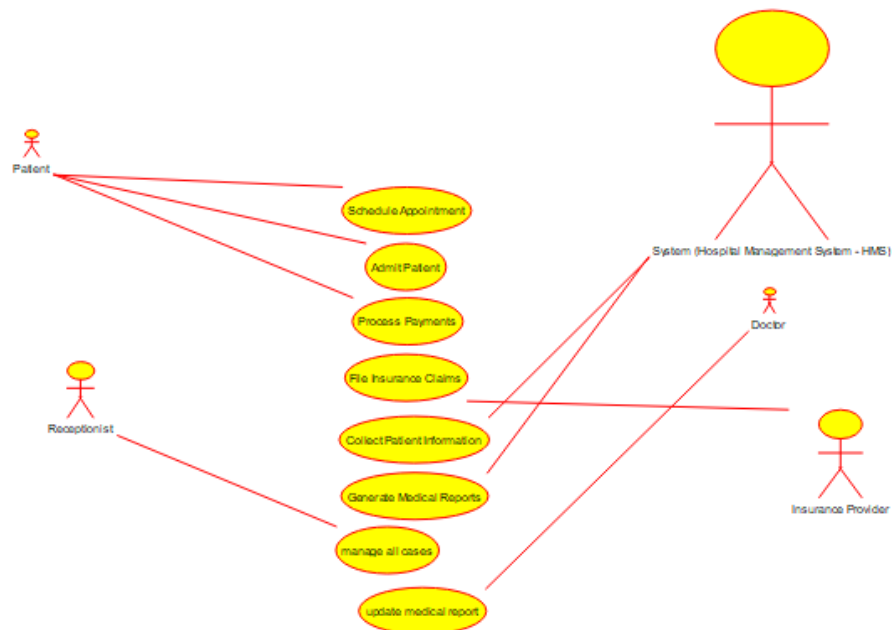
RESULT

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.