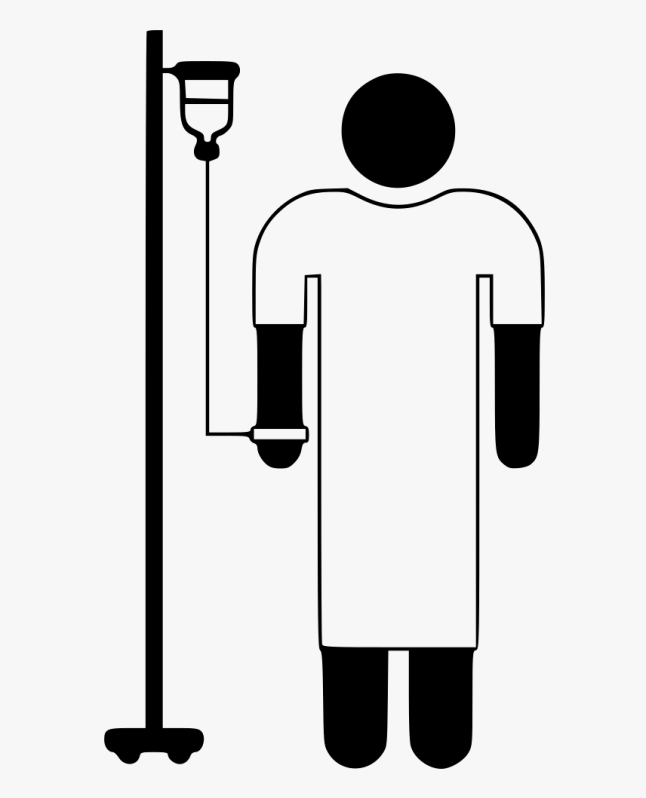
STEP1. IDENTIFY all the necessary OBJECT within the problem domain

Patient



Hospital Room

STEP 2. IDENTIFY all the properties and methods/behaviors in the problem statement

Patient

- ID Number
- Name
- Date of Birth
- Type of Resident

Behaviors

- viewInfo():
- addRecord():
- updateRecord():
- searchRecord():

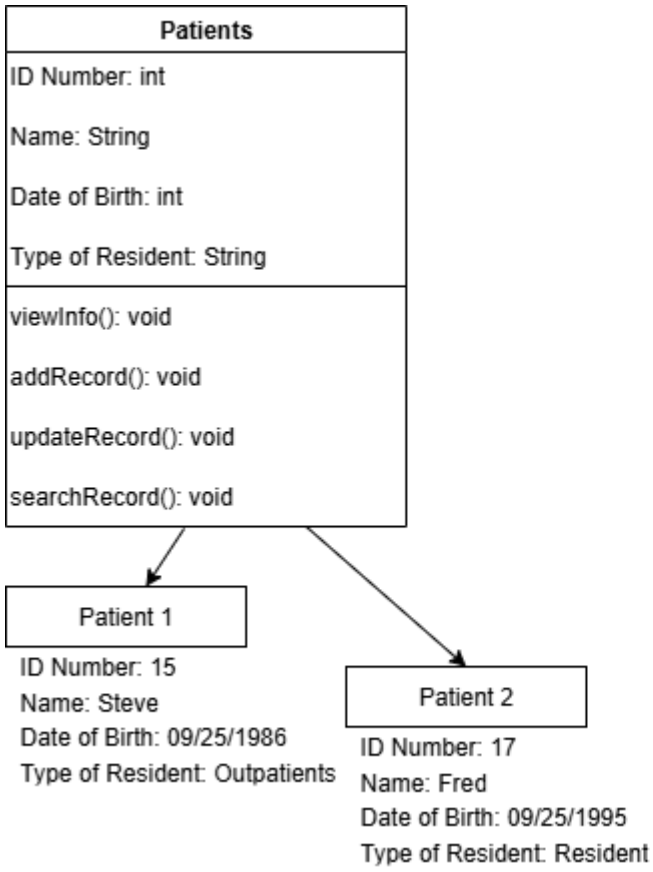
Hospital Room

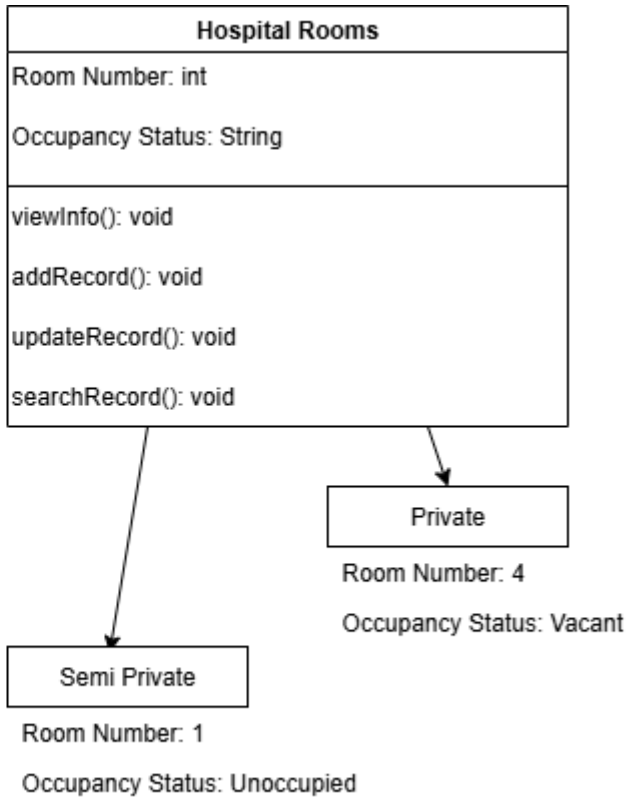
- Room Type
- Occupancy

Behaviors

- viewInfo():
- addRecord():
- updateRecord():
- searchRecord():

STEP 3. Design the MODEL using a Class Diagram





STEP 4. Implement the class using Java code construct of each interacting entities that you have identified.

```
import java.util.Scanner;


class Patient {

        String name;
        String id;
        String dob;
        String status;

        void display(){
            System.out.println("Name: "+name);
             System.out.println("ID: "+id);
              System.out.println("DOB:"+dob);
               System.out.println("Status:"+status);
        }

    }

    class Room {

        int roomNum;
        String roomType;
        int fee;

        void displayRoom() {

            System.out.println("Room number: " + roomNum);
            System.out.println("Room Type: " + roomType);
            System.out.println("Room Fee: " + fee);
        }

    }
```

```
public class Main

{
public static void main(String[] args) {

Scanner scan = new Scanner(System.in);
   Patient p1 = new Patient();



System.out.print("Patient Name:");
p1.name=scan.nextLine();
System.out.print("Patient ID:");
p1.id=scan.nextLine();
System.out.print("Patient DOB:");
p1.dob =scan.nextLine();
System.out.print("Patient Status:");
p1.status=scan.nextLine();



Room r1 = new Room();

System.out.print("Room number:");
r1.roomNum = scan.nextInt();
scan.nextLine();
System.out.print("Room Type: ");
r1.roomType = scan.nextLine();
System.out.print("Room Fee: ");
r1.fee = scan.nextInt();

System.out.println("\n");

p1.display();
r1.displayRoom();

}
}
```

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