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BSCS- C203

Midterm Paired Task 1.

STEP1. IDENTIFY all the necessary OBJECT within the problem domain

1. Patient
2. Hospital Room

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

Patients

Properties

1. int - Patient ID Number
2. String - Patient_Name
3. int - Date of Birth
4. String - Patient_Type

Methods/Behaviors

1. ViewRecords()
2. ViewRoom()
3. AddRecords()
4. UpdateRecords()
5. SearchRecords()

Hospital Rooms

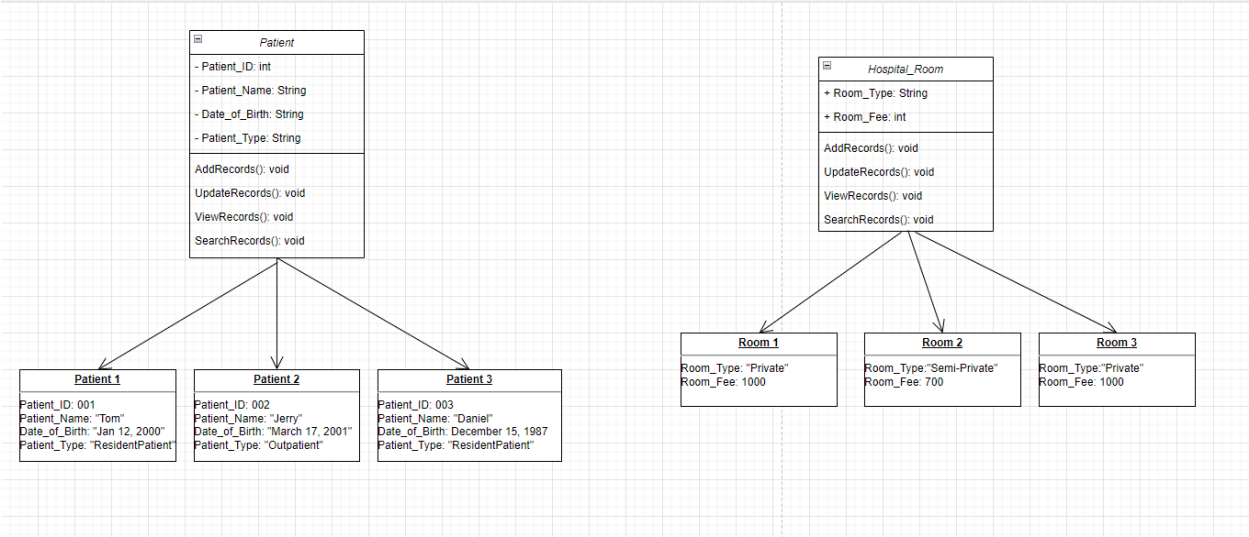
Properties

1. String - Room type
2. int - Room fee

Methods/Behaviors

1. AddRecords()
2. UpdateRecords()
3. SearchRecords()

STEP 3. Design the MODEL using a Class Diagram (You may use draw.io to represent the Blueprint of all the class that you need to create)



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

```
public class Patient
{
   int Patient_ID;
   String Patient_Name;
   String DoB;
   String Patient_Type;

   public void ViewRecords()
   {
      System.out.println("Patient Name: " + Patient_Name);
      System.out.println("Patient ID: " + Patient_ID);
      System.out.println("Date of Birth: " + DoB);
      System.out.println("Patient Type: " + Patient_Type);
   }

   String Room_Type;
   int Room_Fee;

   public void ViewRooms()
   {
      System.out.println("Room Type: " + Room_Type);
      System.out.println("Room Fee: " + Room_Fee);
   }
```

```
public void AddRecords()
{
   System.out.println("Added Patient");
}

public void UpdateRecords()
{
   System.out.println("Updated Patient Record");
}

public void SearchRecords()
{
   System.out.println("Patient Found");
}

      public static void main(String[] args) {

         Patient patient1 = new Patient();

         patient1.Patient_Name = "Tom";
         patient1.Patient_ID = 001;
         patient1.DoB = "January 12, 2000";
         patient1.Patient_Type = "ResidentPatient";
         patient1.Room_Type = "Private";
         patient1.Room_Fee = 1000;

         patient1.ViewRecords();
         patient1.ViewRooms();
         System.out.println("");
         patient1.AddRecords();
         System.out.println("");
         patient1.UpdateRecords();
         System.out.println("");
         patient1.SearchRecords();

         Patient patient2 = new Patient();

         patient2.Patient_Name = "Jerry";
         patient2.Patient_ID = 002;
         patient2.DoB = "March 17, 2001";
         patient2.Patient_Type = "Outpatient";
         patient2.Room_Type = "Semi-Private";
         patient2.Room_Fee = 700;
```

```
            System.out.println("");
            patient2.ViewRecords();
            patient2.ViewRooms();
            System.out.println("");
            patient2.AddRecords();
            System.out.println("");
            patient2.UpdateRecords();
            System.out.println("");
            patient2.SearchRecords();

            Patient patient3 = new Patient();

            patient3.Patient_Name = "Daniel";
            patient3.Patient_ID = 003;
            patient3.DoB = "December 15, 1987";
            patient3.Patient_Type = "ResidentPatient";
            patient3.Room_Type = "Private";
            patient3.Room_Fee = 1000;

            System.out.println("");
            patient3.ViewRecords();
            patient3.ViewRooms();
            System.out.println("");
            patient3.AddRecords();
            System.out.println("");
            patient3.UpdateRecords();
            System.out.println("");
            patient3.SearchRecords();

        }
}
```