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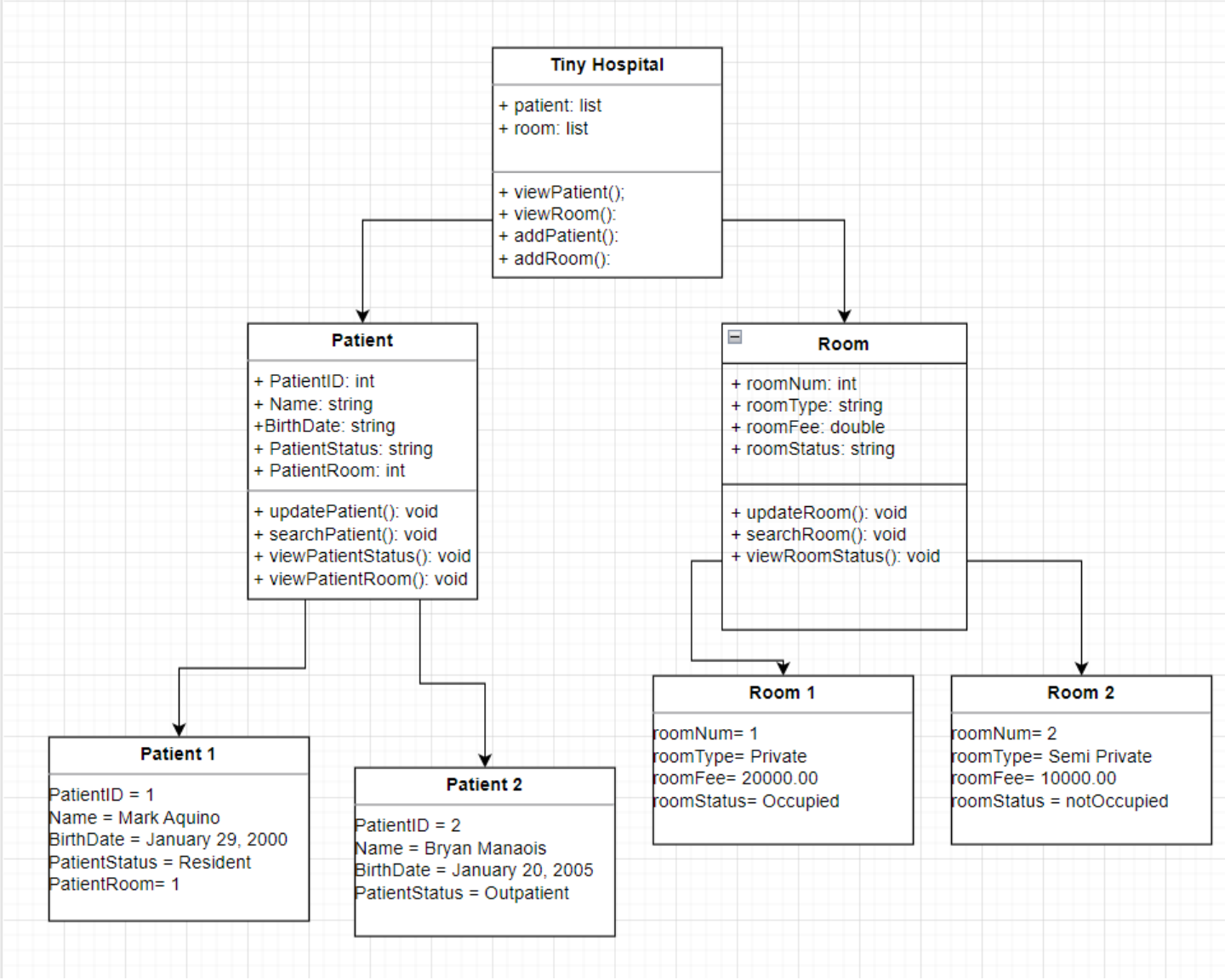
BSCS 204



Patient

Properties:

Name:
BirthDate:
Patient status
Patient Room

Behavior

updatePatient()
updatePatien()
patientStatus()
patientRoom()

Room

Properties:

Room Number:
Room Type:
Room Fee:
Room Status:

Behavior

updateRoom()
searchRoom()
viewRoomStatus()

Tiny Hospital

Properties:

Patients
Rooms

Behavior:

viewPatien()
viewRoom()
addRoom()
addPatient()

```
class Patient {
int patientID;
String name;
String birthDate;
String patientStatus; // Resident or Outpatient
int patientRoom; // Room number
public Patient(int patientID, String name, String birthDate, String patientStatus, int patientRoom) {
this.patientID = patientID;
this.name = name;
this.birthDate = birthDate;
this.patientStatus = patientStatus;
this.patientRoom = patientRoom;
}

public void updatePatient(String newName, String newBirthDate, String newStatus, int newRoom) {
this.name = newName;
this.birthDate = newBirthDate;
this.patientStatus = newStatus;
this.patientRoom = newRoom;
}

public void viewPatient() {
System.out.println("PatientID: " + patientID);
System.out.println("Name: " + name);
System.out.println("BirthDate: " + birthDate);
System.out.println("Status: " + patientStatus);
System.out.println("Room: " + (patientStatus.equals("Resident") ? patientRoom : "N/A"));
System.out.println("--------------------------------");
}
}

class Room {
int roomNum;
String roomType;
double roomFee;
String roomStatus; // "Occupied" or "NotOccupied"

public Room(int roomNum, String roomType, double roomFee, String roomStatus) {
this.roomNum = roomNum;
this.roomType = roomType;
this.roomFee = roomFee;
this.roomStatus = roomStatus;
}

public void updateRoom(String newType, double newFee, String newStatus) {
this.roomType = newType;
this.roomFee = newFee;
this.roomStatus = newStatus;
}
```

```
public void viewRoom() {
System.out.println("Room Number: " + roomNum);
System.out.println("Type: " + roomType);
System.out.println("Fee: " + roomFee);
System.out.println("Status: " + roomStatus);
System.out.println("--------------------------------");
}
}

class TinyHospital {
List<Patient> patients = new ArrayList<>();
List<Room> rooms = new ArrayList<>();

public void addPatient(Patient p) {
patients.add(p);
}

public void addRoom(Room r) {
rooms.add(r);
}

public void viewPatients() {
for (Patient p : patients) {
p.viewPatient();
}
}

public void viewRooms() {
for (Room r : rooms) {
r.viewRoom();
}
}

public Patient searchPatient(int id) {
for (Patient p : patients) {
if (p.patientID == id) return p;
}
return null;
}

public Room searchRoom(int roomNum) {
for (Room r : rooms) {
if (r.roomNum == roomNum) return r;
}
return null;
}
}
```