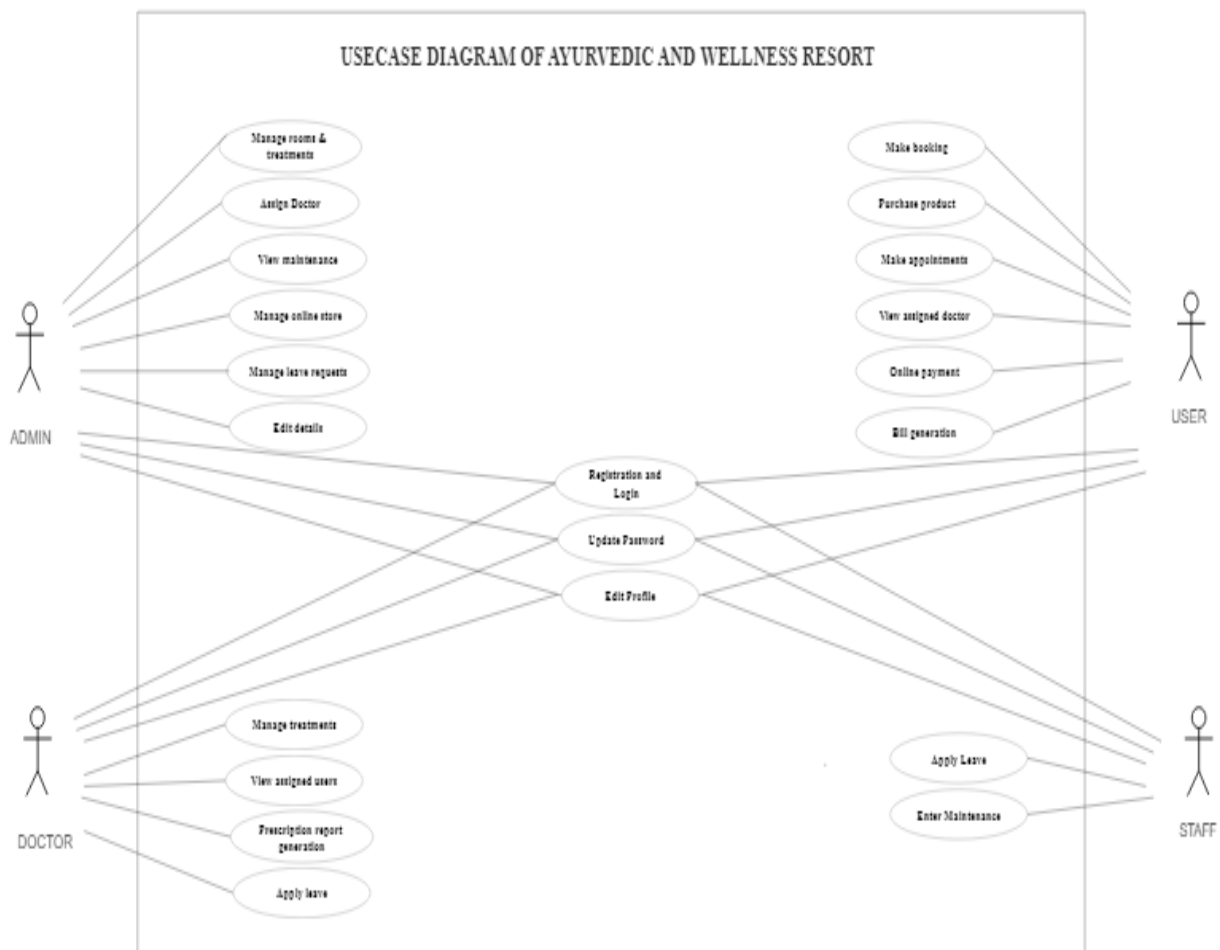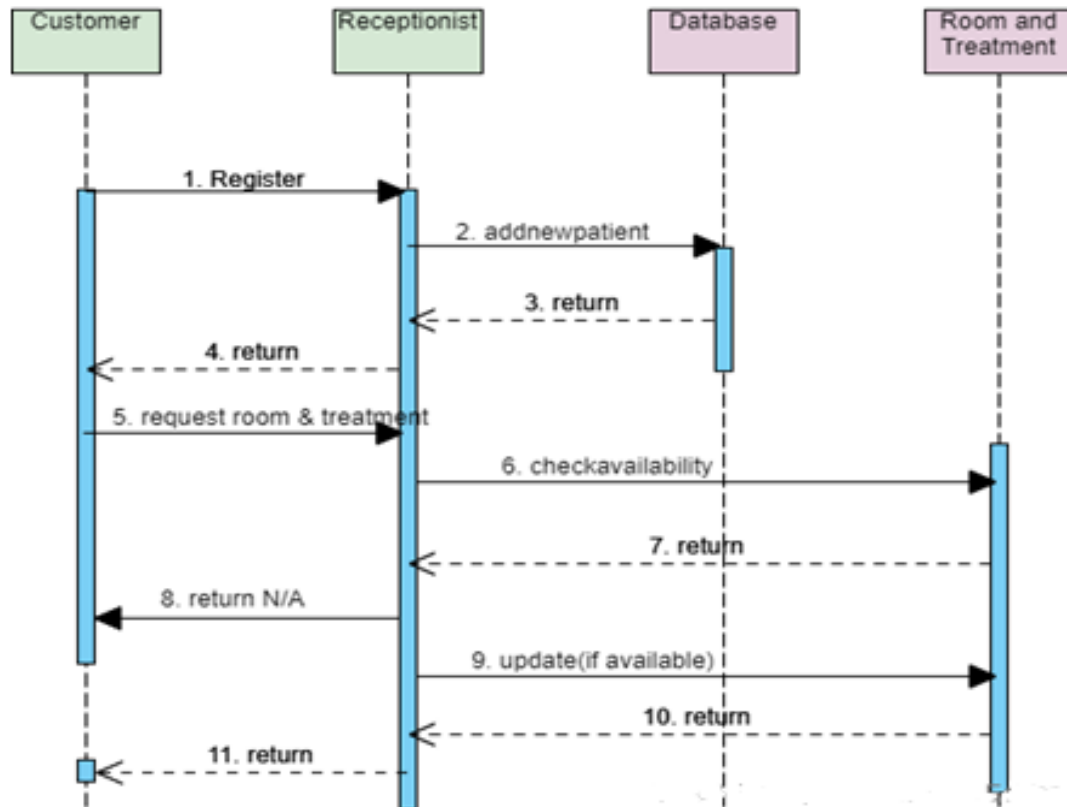# UML DIAGRAMS

VAIDEHI M NAIR
S10 INTMCA

UML DIAGRAM

UML is a standard language for specifying, visualizing, constructing, and documenting the artifacts of software systems. UML was created by the Object Management Group (OMG) and UML 1.0 specification draft was proposed to the OMG in January 1997.

UML stands for **Unified Modeling Language**. UML is different from the other common programming languages such as C++, Java, COBOL, etc. UML is a pictorial language used to make software blueprints. UML can be described as a general purpose visual modeling language to visualize, specify, construct, and document software system.
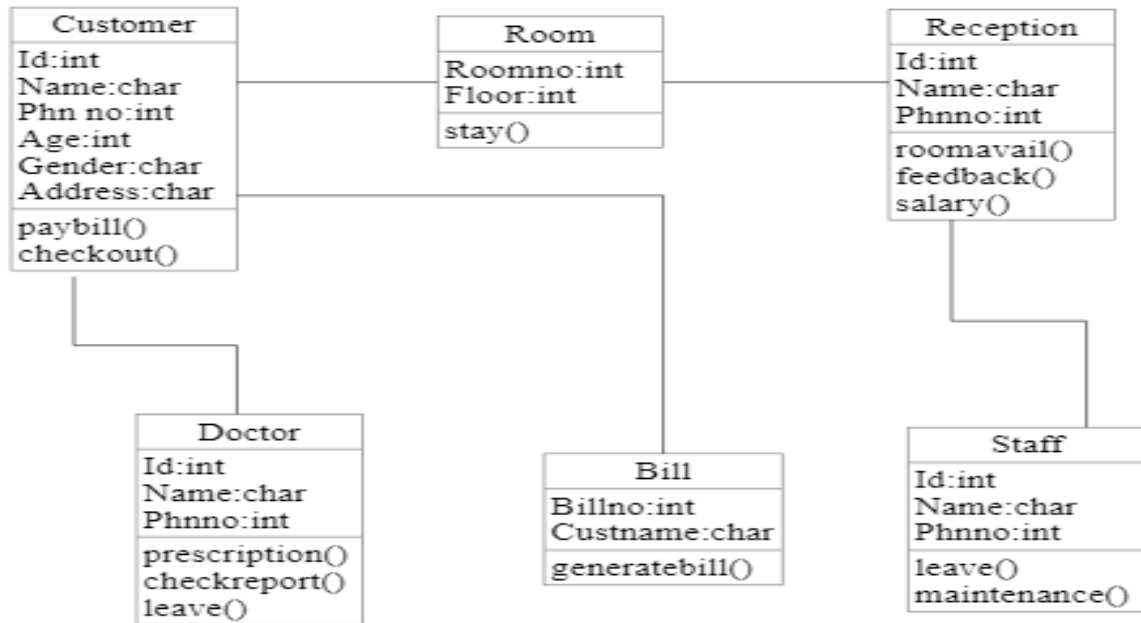
1) USE CASE DIAGRAM

USECASE DIAGRAM OF AYURVEDIC AND WELLNESS RESORT

2) SEQUENCE DIAGRAM

```
 Customer          Receptionist         Database        Room and
                                                        Treatment

     │  1. Register     │                  │                │
     │─────────────────▶│                  │                │
     │                  │ 2. addnewpatient │                │
     │                  │─────────────────▶│                │
     │                  │    3. return     │                │
     │                  │◀ ─ ─ ─ ─ ─ ─ ─ ─ │                │
     │    4. return     │                  │                │
     │◀ ─ ─ ─ ─ ─ ─ ─ ─ │                  │                │
     │ 5. request room & treatment         │                │
     │─────────────────▶│                  │                │
     │                  │  6. checkavailability             │
     │                  │──────────────────────────────────▶│
     │                  │           7. return               │
     │                  │◀ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ │
     │  8. return N/A   │                  │                │
     │◀─────────────────│                  │                │
     │                  │  9. update(if available)          │
     │                  │──────────────────────────────────▶│
     │                  │          10. return               │
     │                  │◀ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ │
     │    11. return    │                  │                │
     │◀ ─ ─ ─ ─ ─ ─ ─ ─ │                  │                │
```

3) CLASS DIAGRAM

Customer
Id:int
Name:char
Phn no:int
Age:int
Gender:char
Address:char

paybill()
checkout()

Room
Roomno:int
Floor:int

stay()

Reception
Id:int
Name:char
Phnno:int

roomavail()
feedback()
salary()

Doctor
Id:int
Name:char
Phnno:int

prescription()
checkreport()
leave()

Bill
Billno:int
Custname:char

generatebill()

Staff
Id:int
Name:char
Phnno:int

leave()
maintenance()

4) ACTIVITY DIAGRAM

```
                    ●
                    │
                    ▼
              ┌──────────┐
              │ Register │
              └──────────┘
                    │
                    ▼
              ┌──────────┐
              │  Login   │
              └──────────┘
                    │
                    ▼
┌──────────┐    ◇──────◇
│ No room  │◄───│ Check │
└──────────┘    ◇──────◇
                    │
                    ▼
              ┌──────────┐
              │  Select  │
              │Treatment │
              └──────────┘
                    │
                    ▼
              ┌──────────┐
              │  Select  │
              │  Room    │
              └──────────┘
                    │
                    ▼
              ┌──────────┐
              │Credit Card│
              └──────────┘
                    │
                    ▼
┌──────────┐    ◇──────◇    ┌──────────┐
│ Invalid  │◄───│ Check │──►│  Wrong   │
└──────────┘    ◇──────◇    └──────────┘
                    │
                    ▼
         ┌────────────────────┐
         │Confirmation Report │
         └────────────────────┘
                    │
                    ▼
┌──────────┐    ◇──────◇    ┌──────────┐
│   Wait   │◄───│ Check │──►│  Email   │
└──────────┘    ◇──────◇    └──────────┘
                    │
                    ▼
                   ◉
```
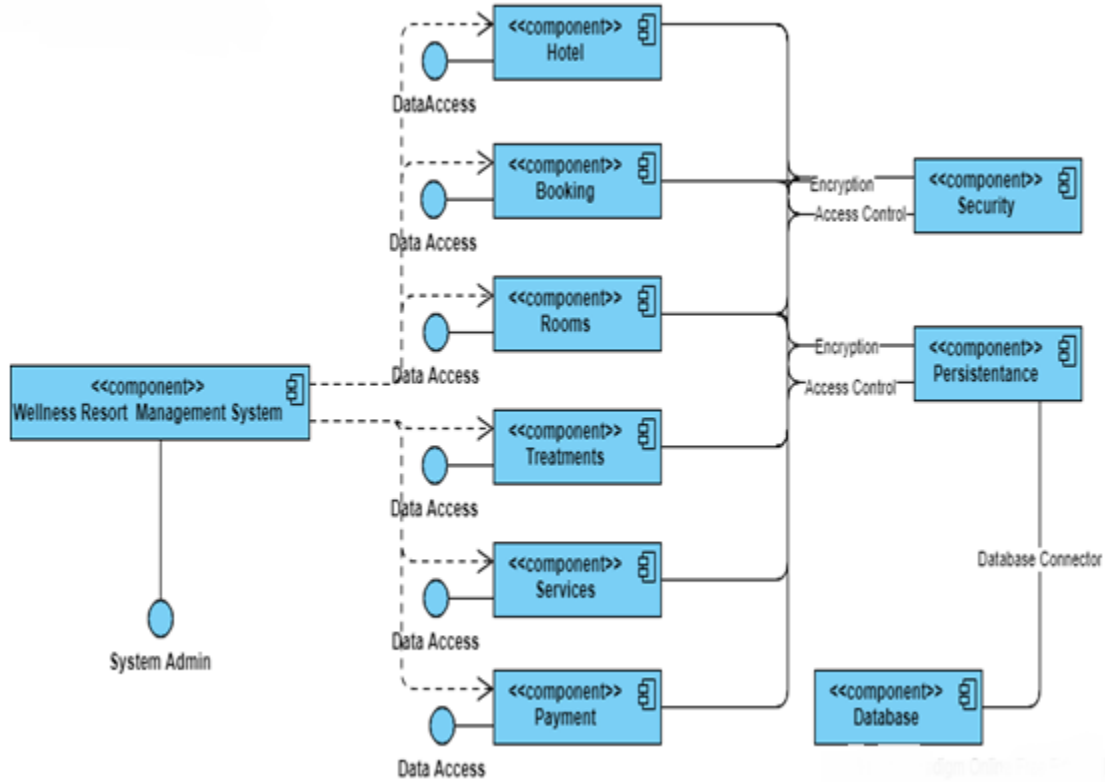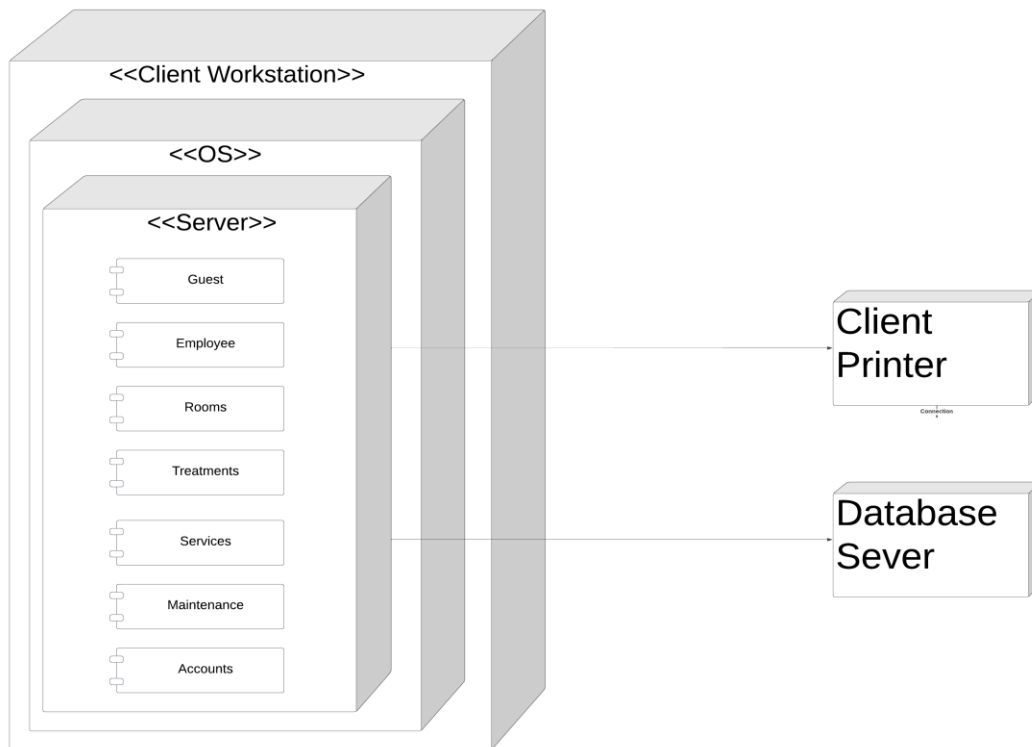
5) COMPONENT DIAGRAM

6) DEPLOYMENT DIAGRAM

7) STATE DIAGRAM