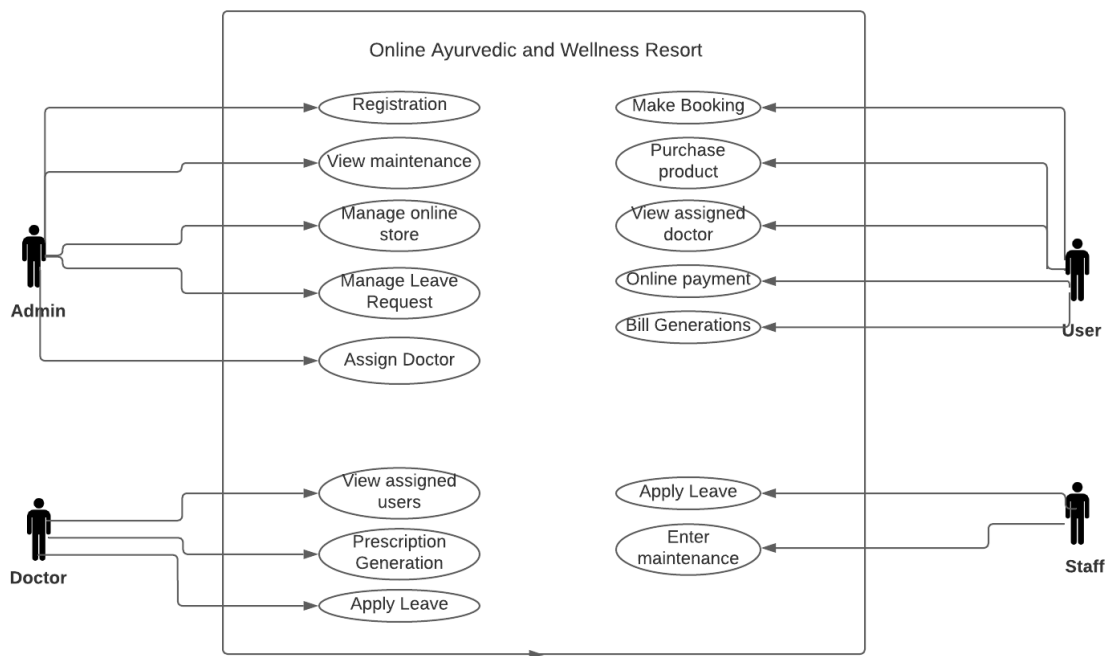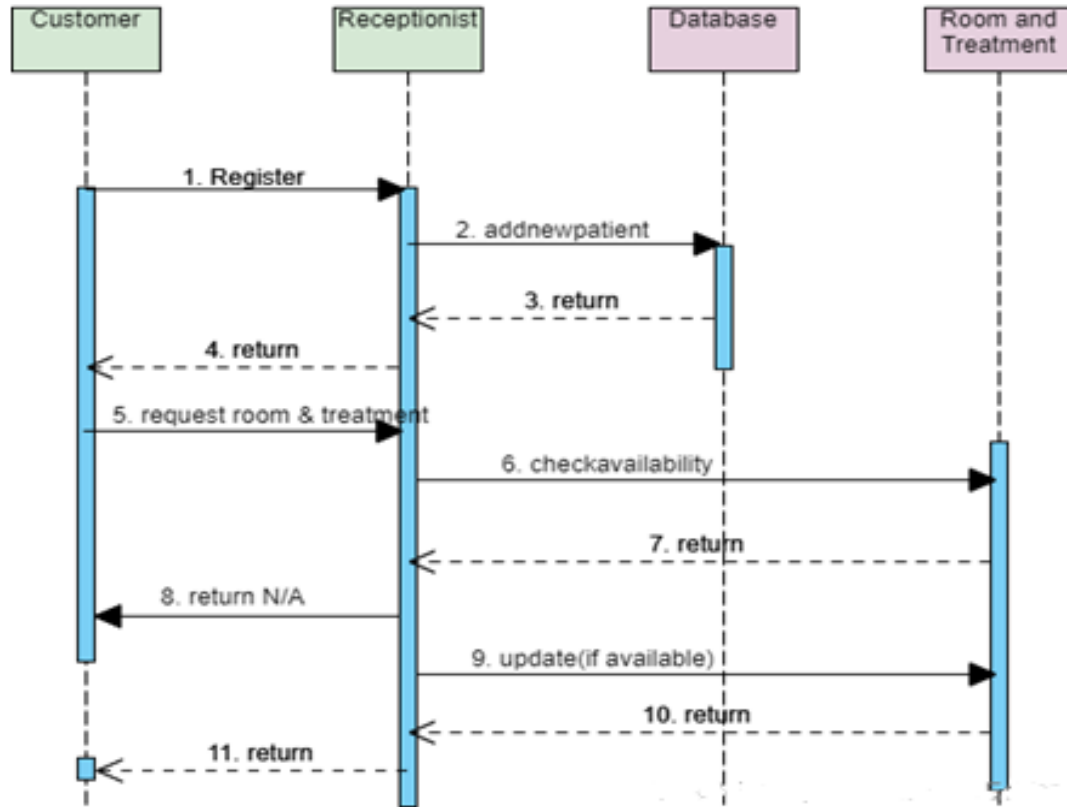# UML DIAGRAMS

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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

2) SEQUENCE DIAGRAM

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  │
  └─────────┘    ◇────────◇    └─────────┘
                    |
                    ▼
                   ◉
```
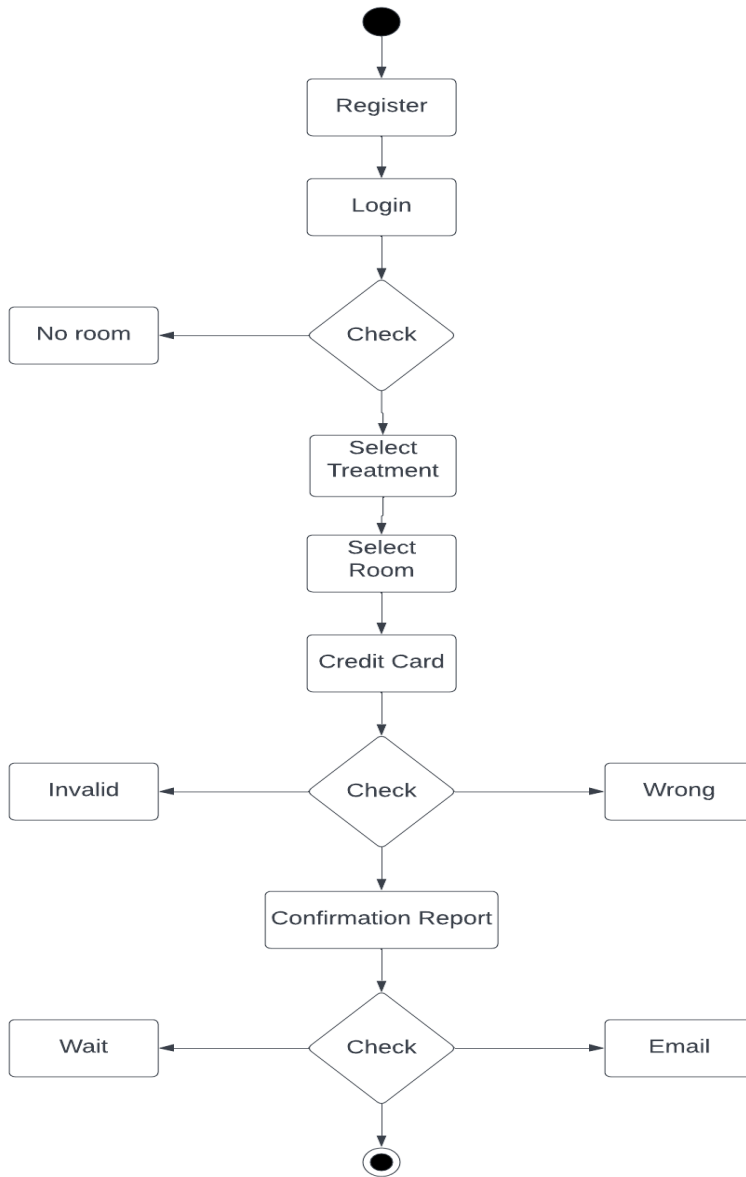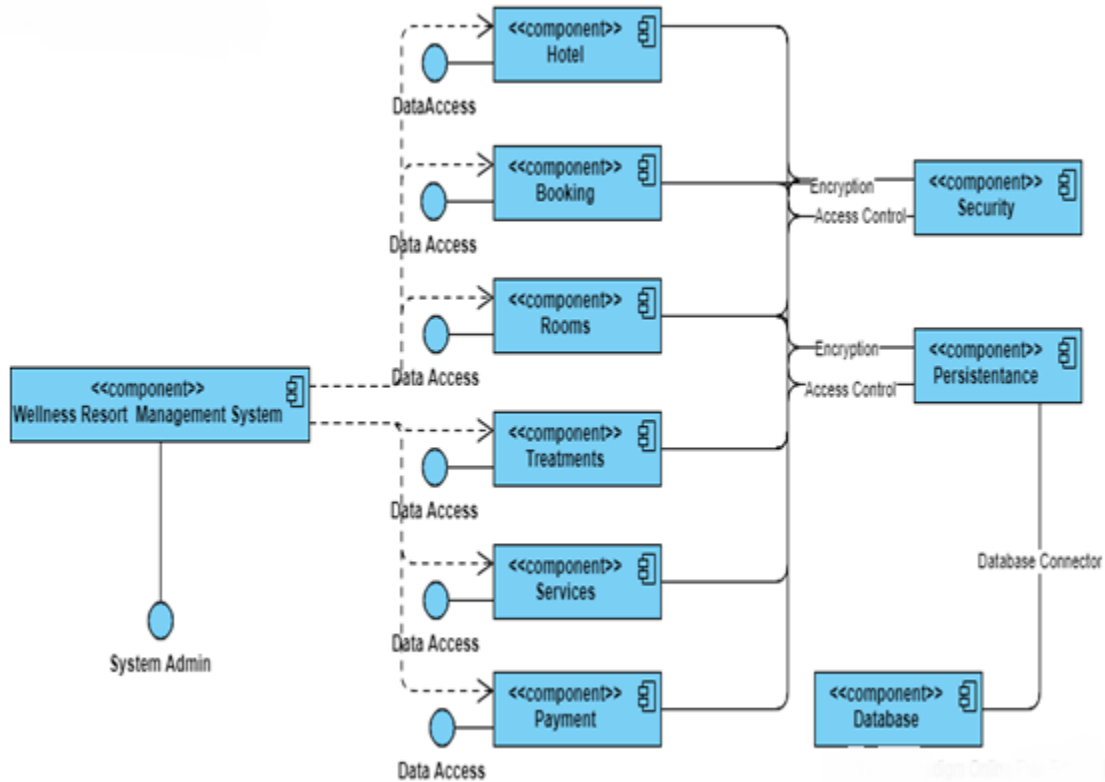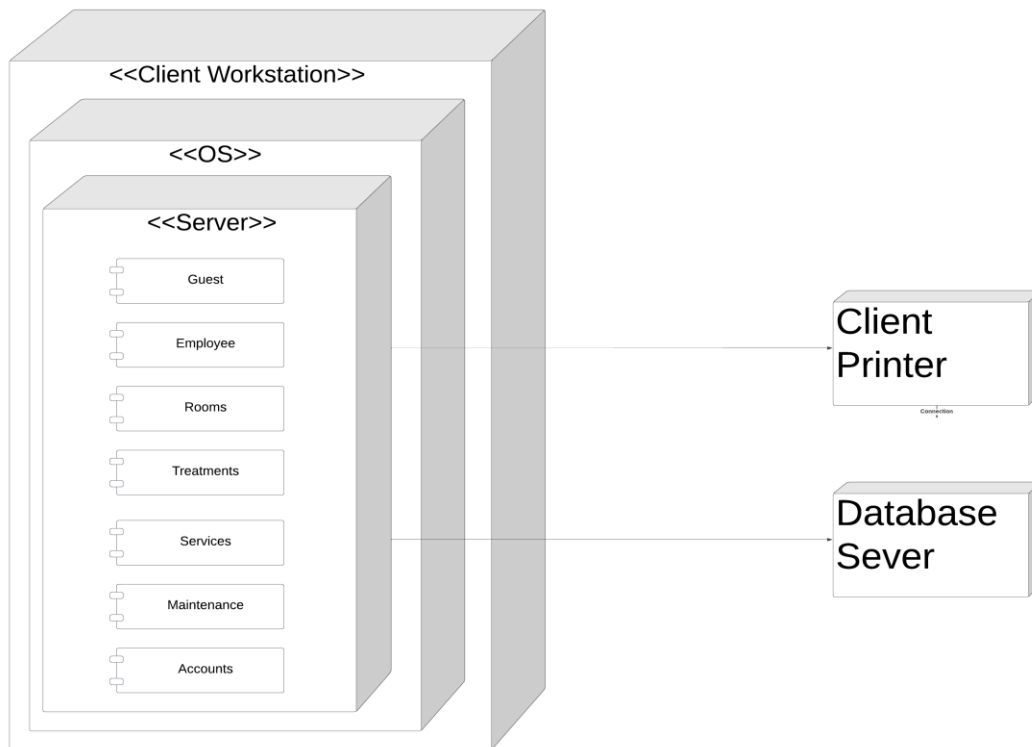
5) COMPONENT DIAGRAM

6) DEPLOYMENT DIAGRAM

7) STATE DIAGRAM