



**SAVEETHA SCHOOL OF ENGINEERING**  
**SAVEETHA INSTITUTE OF MEDICAL AND  
TECHNICAL SCIENCES**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**LIST OF EXPERIMENTS**

**COURSE CODE : CSA4001**

**COURSE NAME : MANAGEMENT INFORMATION SYSTEM**

- 1) **Draw a UML diagram for hotel reservation system. In a hotel reservation system, a customer can make online booking for a hotel, by specifying the accommodation requirements such as type of room (AC/Non-AC, One bed/two bed), total no of rooms, duration of stay. The system selects a suitable hotel as per customer's requirements. If a hotel is found then the availability of rooms in that hotel is checked. The charges are calculated for the selected requirement and these are acknowledged to the customer. If the customer is satisfactory about the selection made by the system, then he confirms the reservation.**

**AIM:**

To design a UML diagram for a Hotel Reservation System, which allows customers to book rooms online based on their accommodation requirements, ensuring room availability, cost calculation, and reservation confirmation.

**PROCEDURE:**

- 1) **Customer Provides Booking Details**

The customer enters accommodation preferences:

Type of room (AC/Non-AC, One bed/Two bed)

Number of rooms

Duration of stay

- 2) **System Searches for Suitable Hotels**

The system filters hotels based on the customer's preferences and available options.

- 3) **Check Room Availability**

The system verifies if rooms matching the customer's requirements are available in the selected hotel.

- 4) **Calculate Charges**

Based on room type, number of rooms, and duration of stay, the system calculates the total cost.

### 5) Display Booking Details & Cost to Customer

The system shows the selected hotel, room availability, and total charges to the customer for review.

### 6) Customer Confirms the Reservation

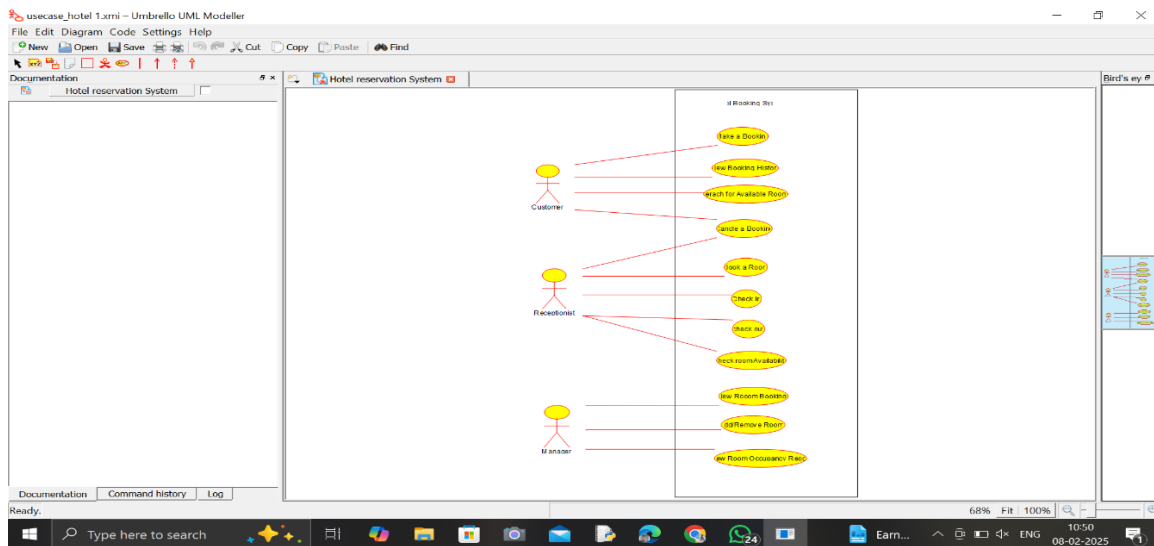
If the customer is satisfied with the selection, they proceed with booking confirmation.

### 7) Finalize Reservation & Payment

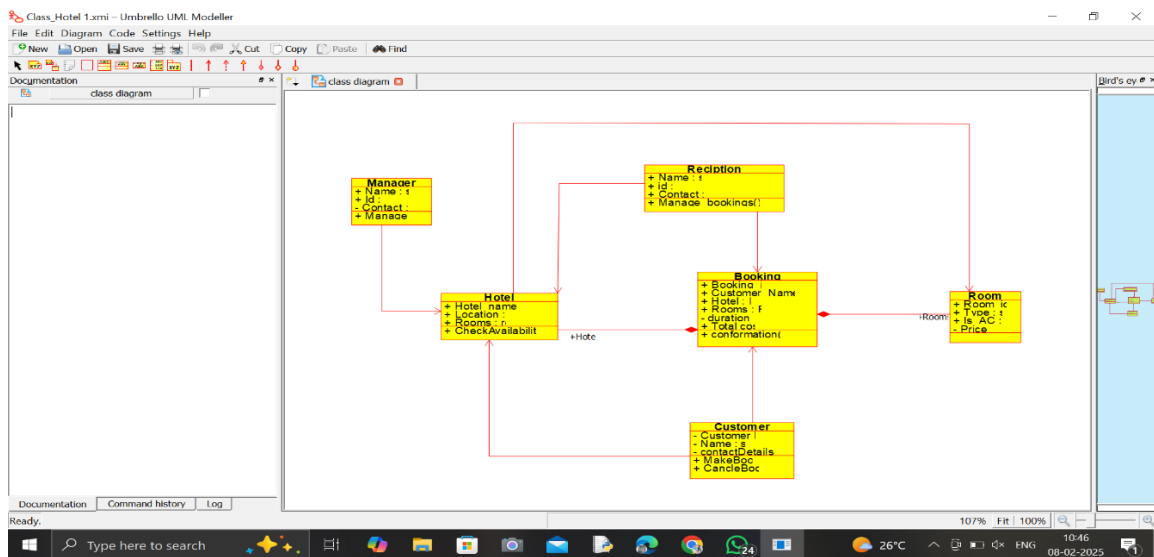
The system finalizes the booking and may redirect the customer to the payment gateway. Upon successful payment, a confirmation receipt is generated.

## OBSERVATION:

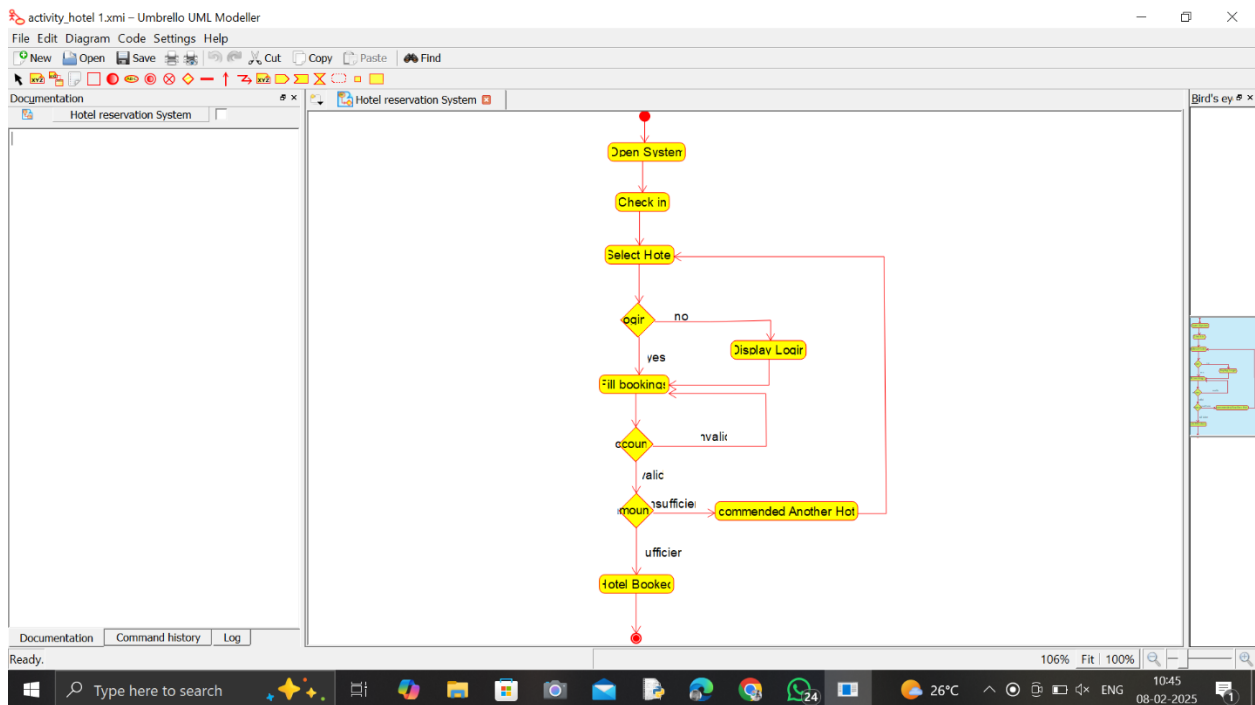
## USECASE DIAGRAM:



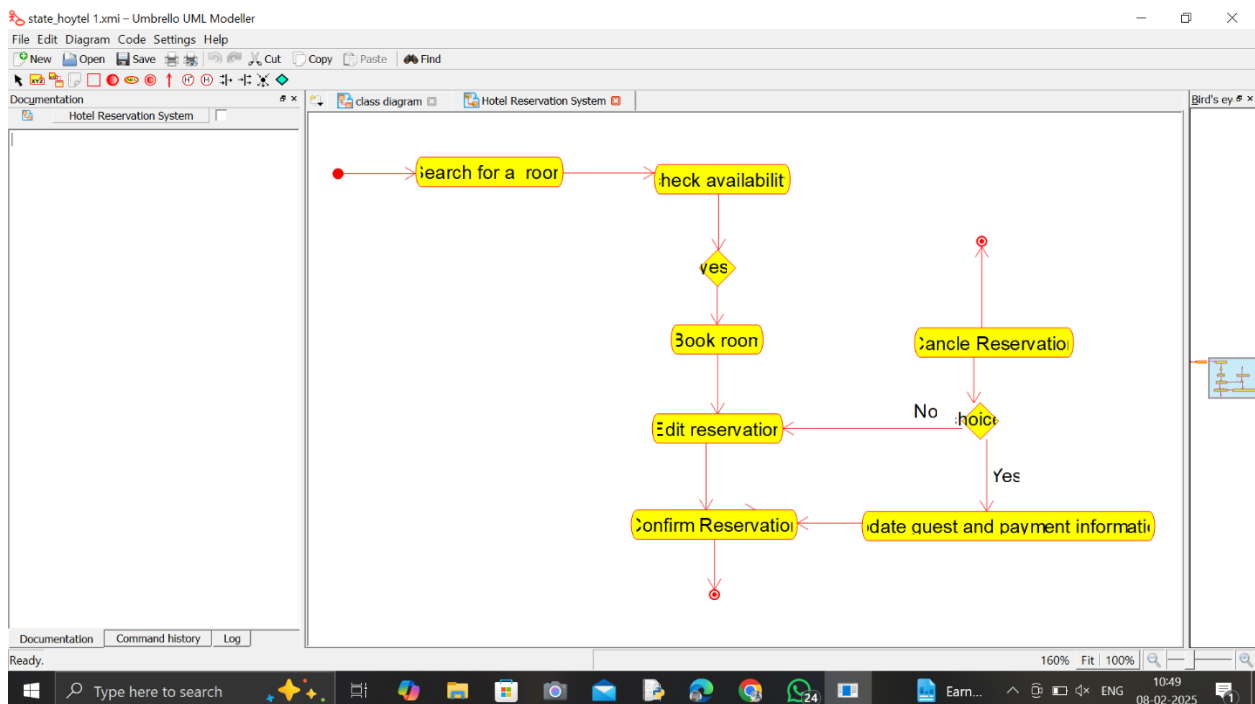
## CLASS DIAGRAM:



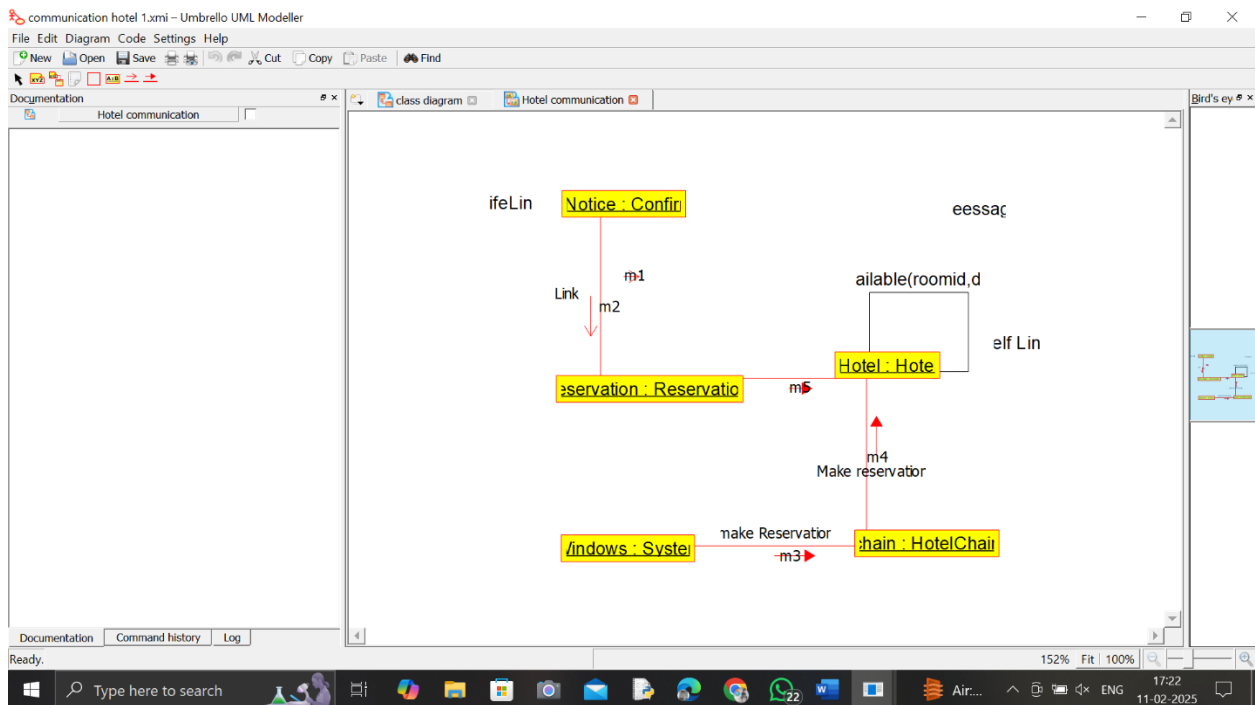
## ACTIVITY DIAGRAM:



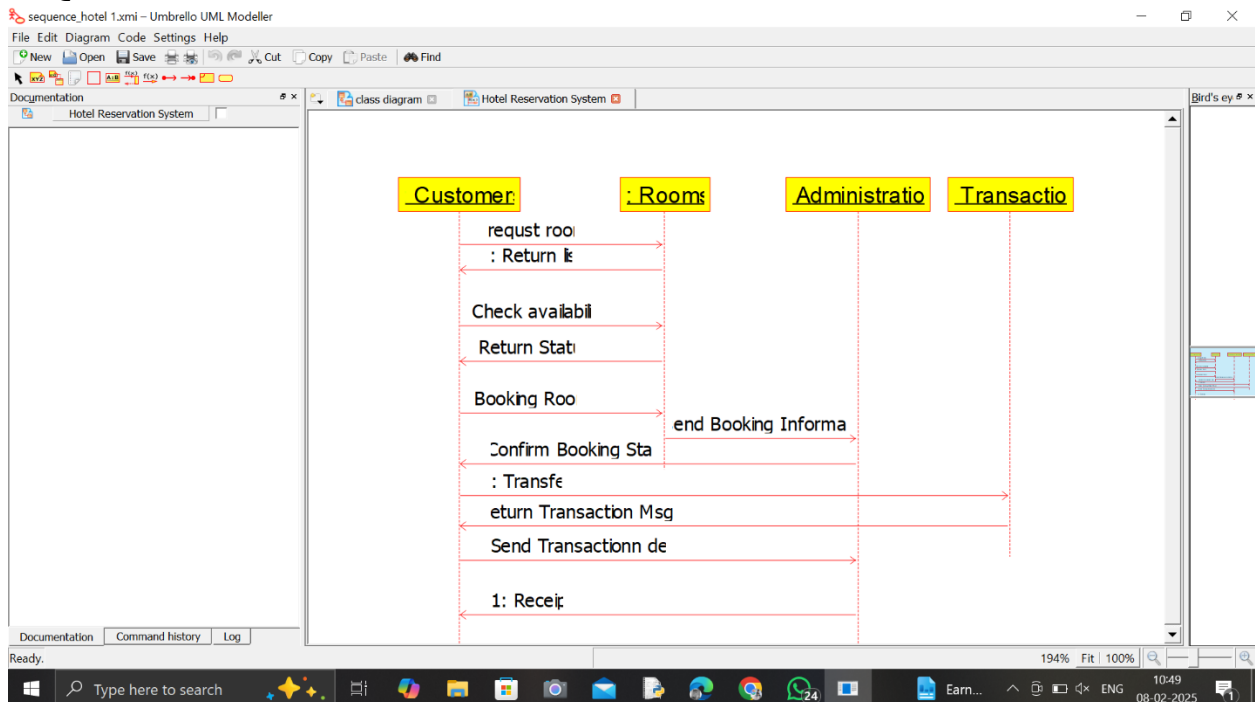
## STATE DIAGRAM:



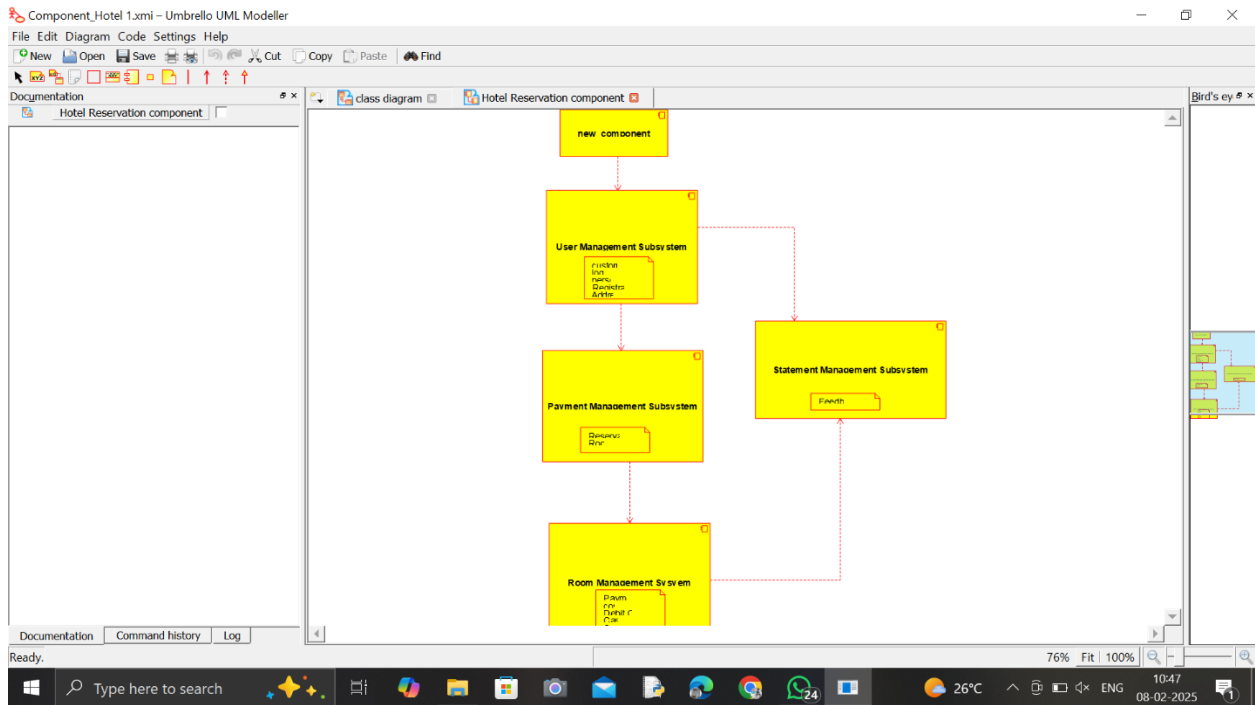
## COLLABORATION DIAGRAM:



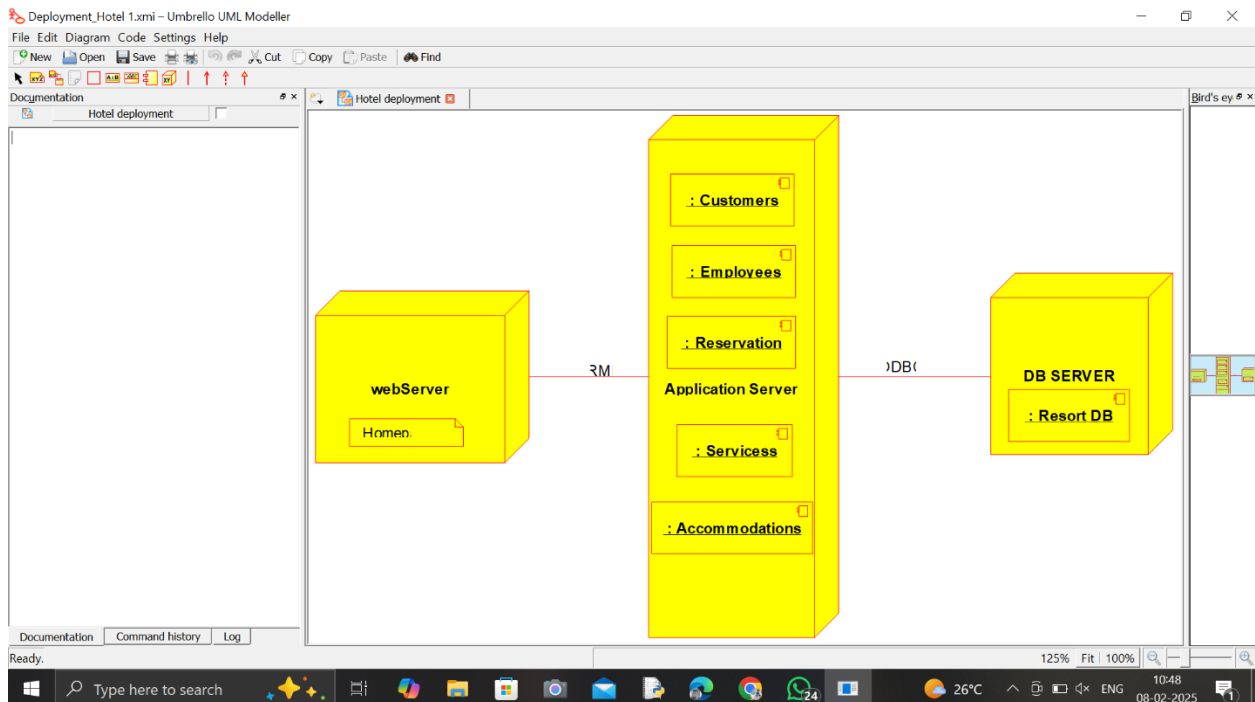
## SEQUENCE DIAGRAM:



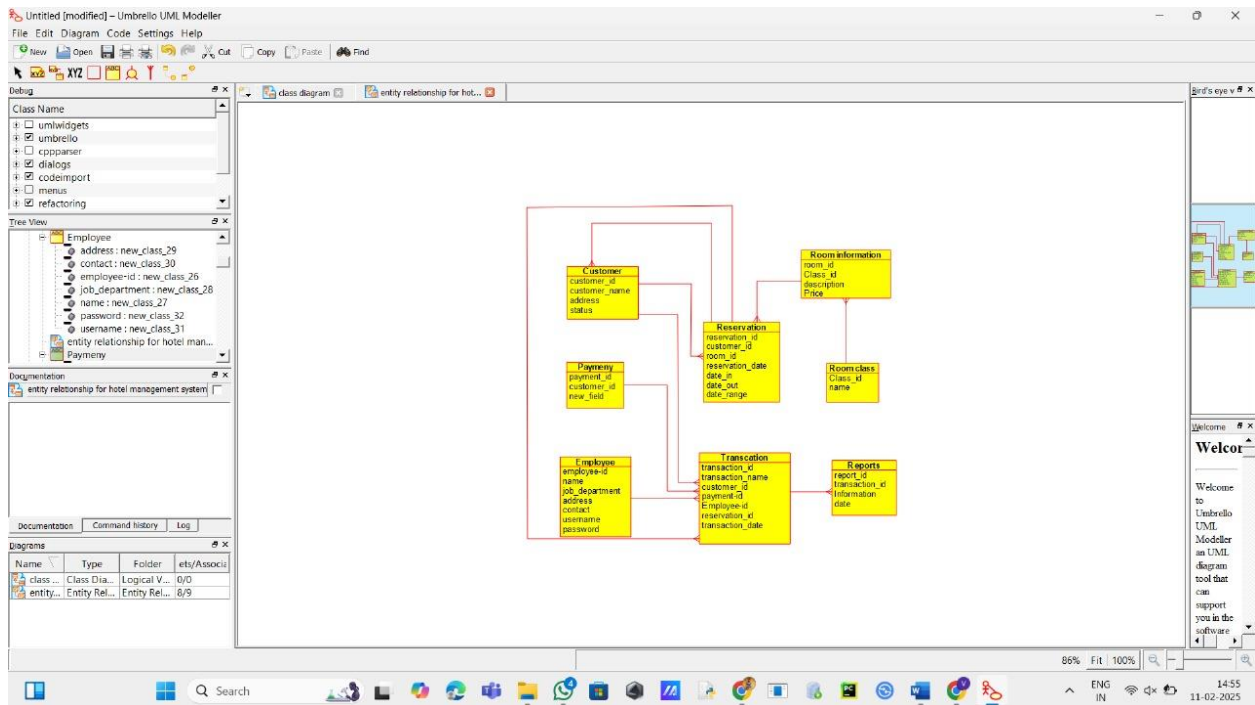
## COMPONENT DIAGRAM:



## DEPLOYMENT DIAGRAM:



## ER DIAGRAM:



## RESULT:

The Hotel Reservation System allows customers to book hotels online by selecting room type, number of rooms, and duration of stay. The system finds a suitable hotel, checks availability, calculates charges, and confirms the reservation upon customer approval.