

Exercise 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.

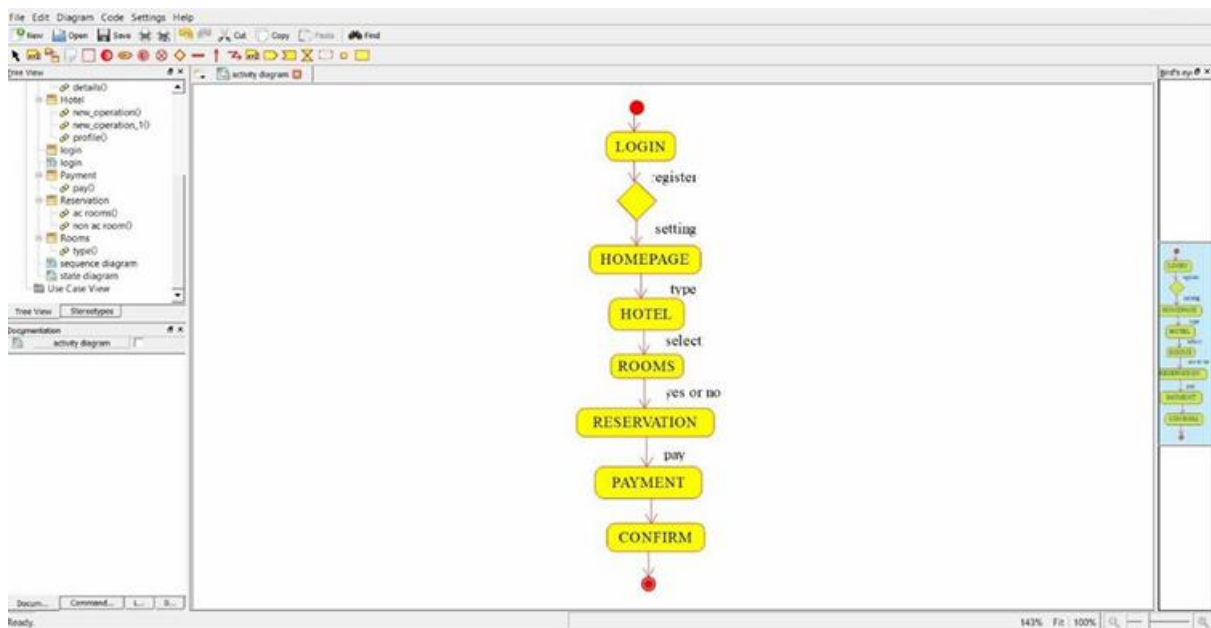
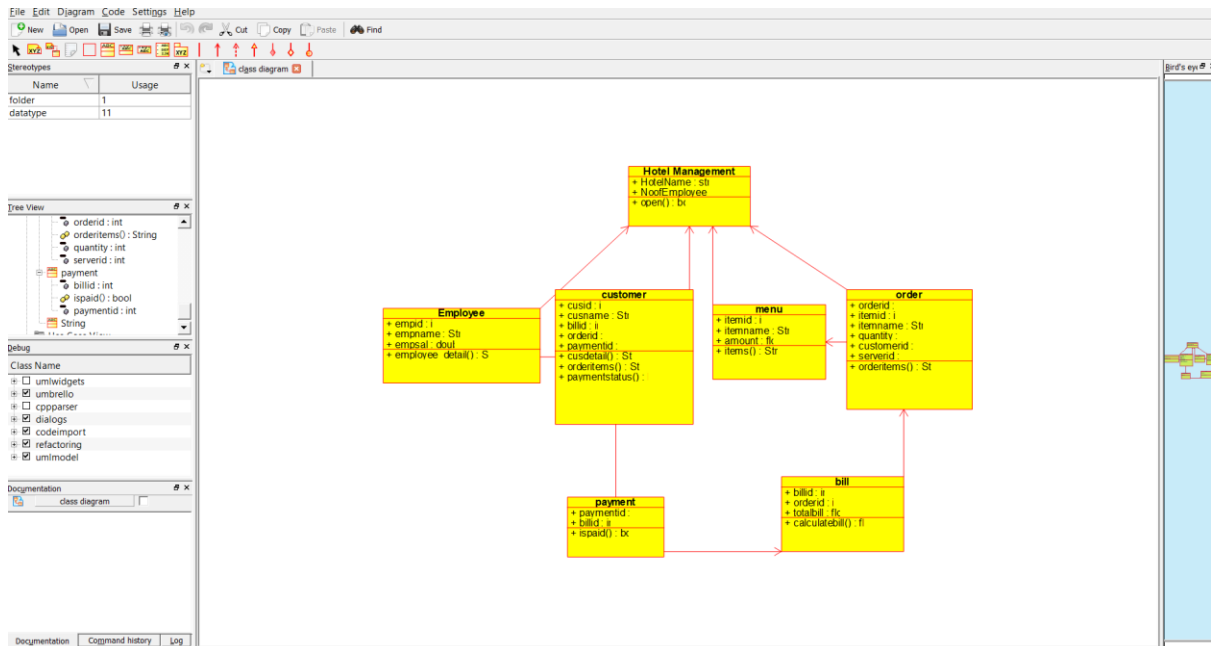
AIM

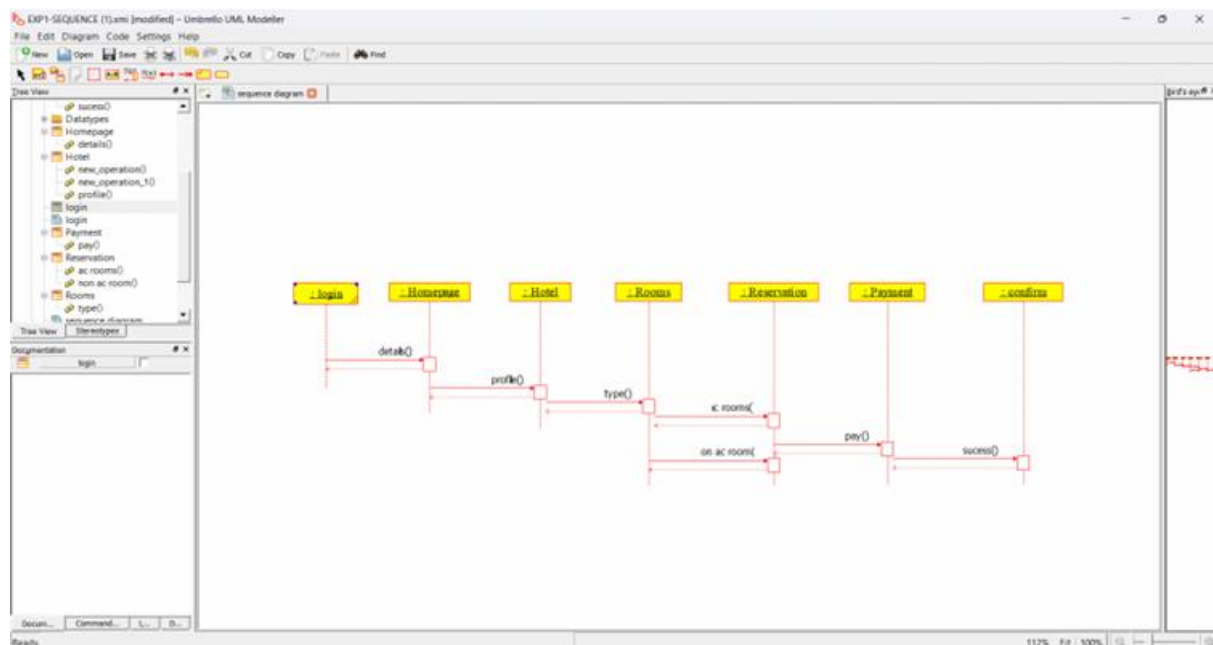
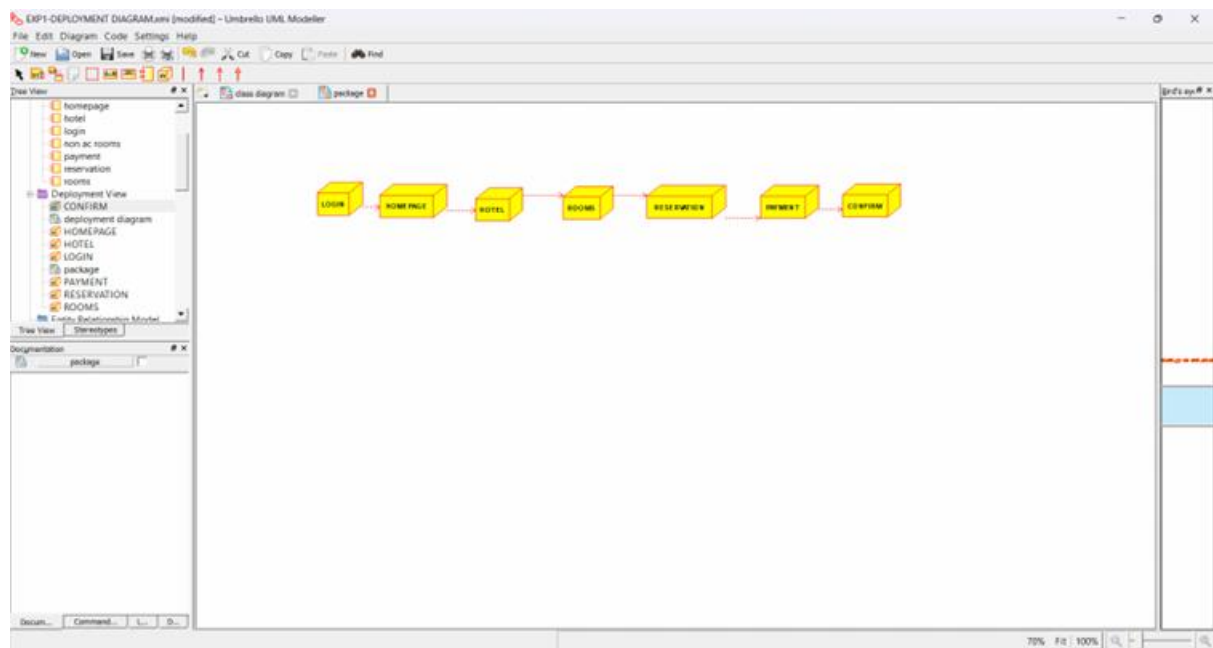
Design a UML diagram for a Hotel Reservation System that enables customers to book hotel rooms online based on their accommodation preferences. The system checks room availability, calculates charges, and confirms reservations upon customer approval.

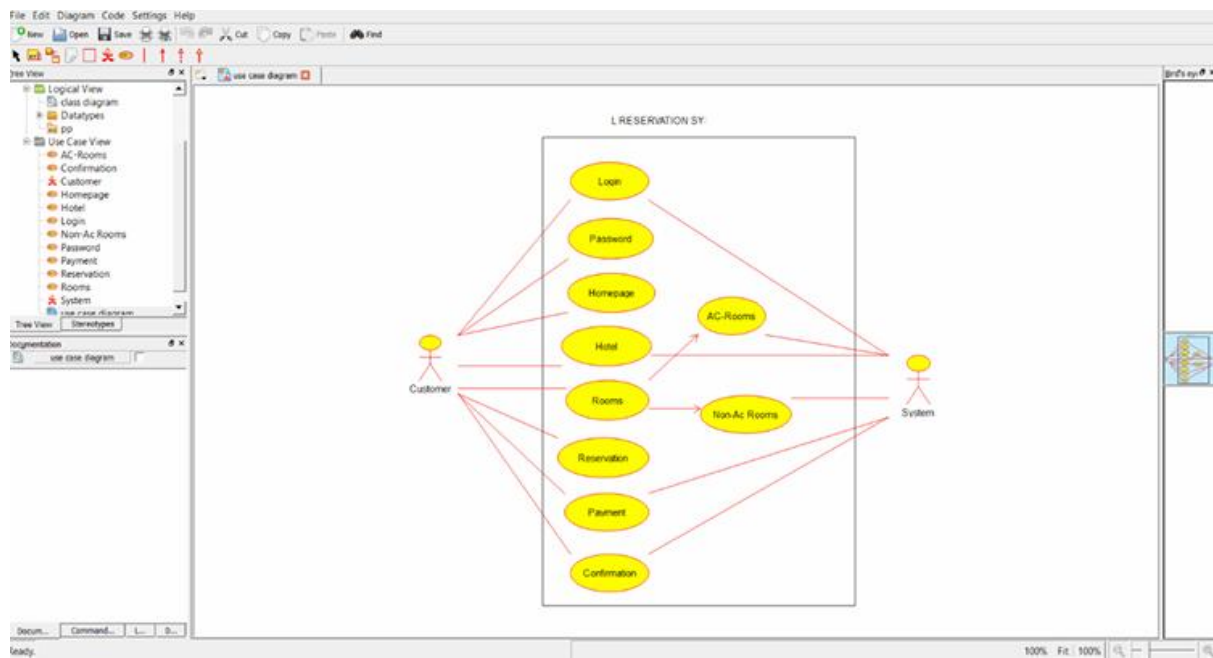
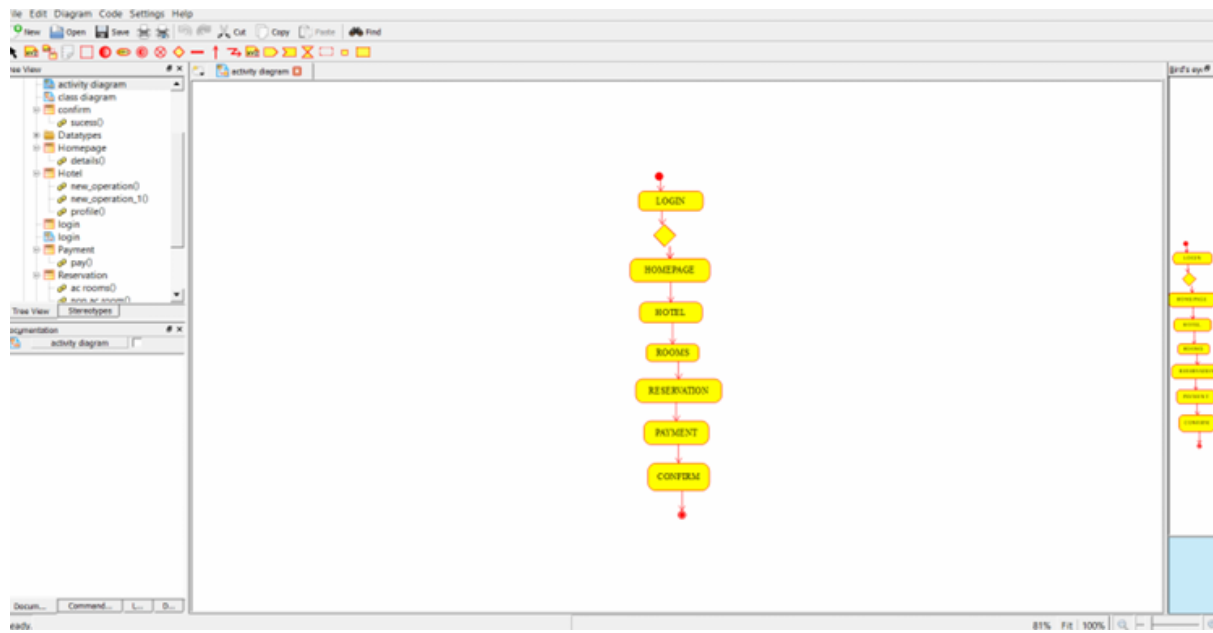
Procedure

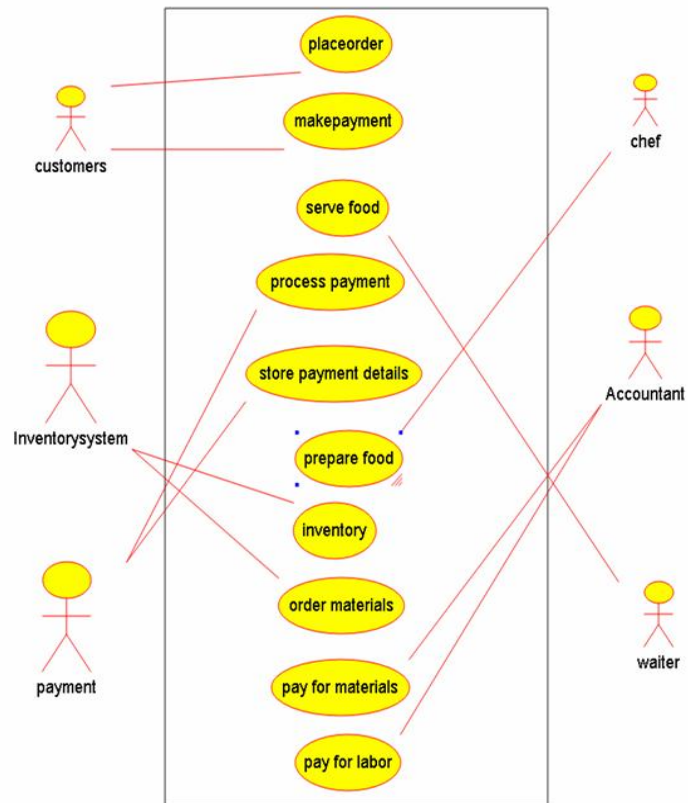
1. Identify Key Entities – Define primary entities such as Customer, Hotel, Room, Reservation, and Payment.
2. Establish Relationships – Map relationships where a customer books a hotel, which contains multiple rooms, and payments are processed accordingly.
3. Define Use Cases – Include actions like searching for a hotel, checking room availability, calculating charges, confirming bookings, and processing payments.
4. Create a Class Diagram – Represent key entities (Customer, Hotel, Room, Reservation, Payment) along with their attributes and methods.
5. Develop the UML Diagram – Illustrate associations between entities, such as Customer → Reservation and Hotel → Room.
6. Review and Finalize – Ensure the UML diagram is accurate, complete, and correctly represents system interactions.

Output









Result

Thus the UML diagram for the Hotel Reservation has been implemented successfully.