

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.

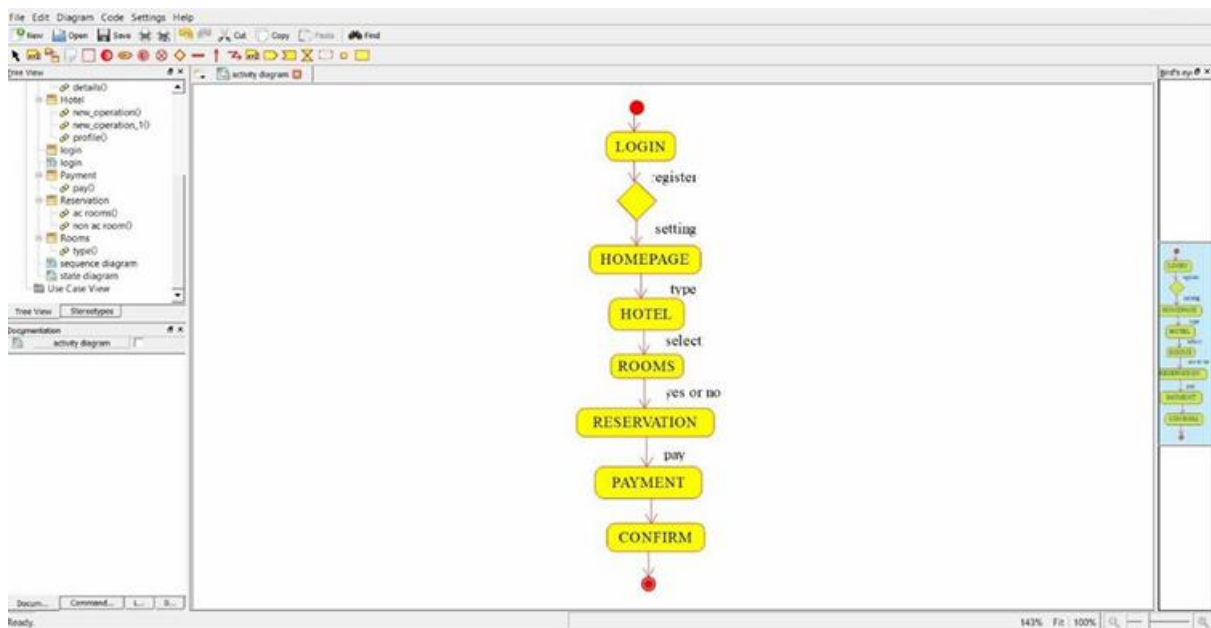
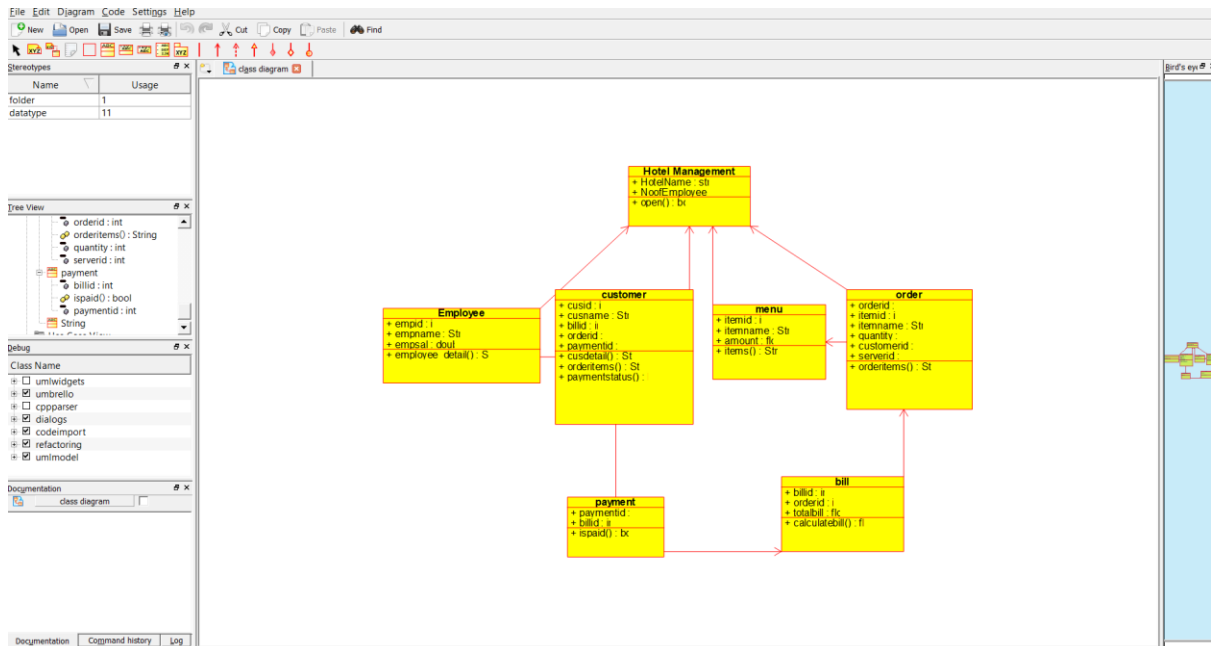
AIM

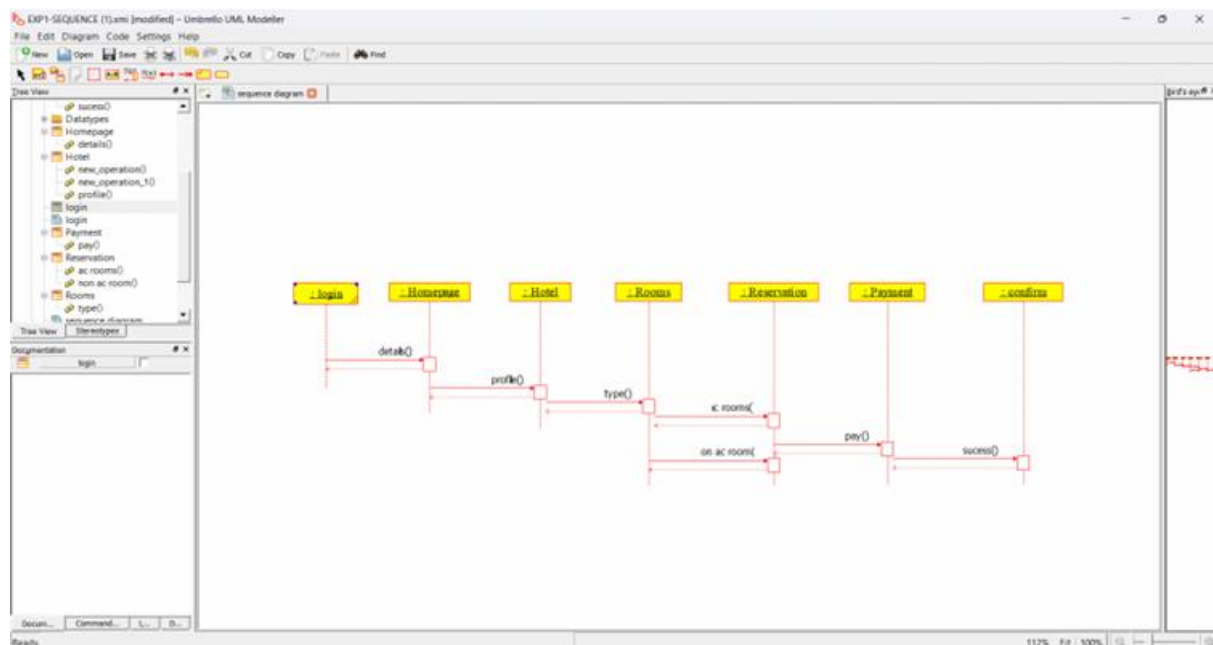
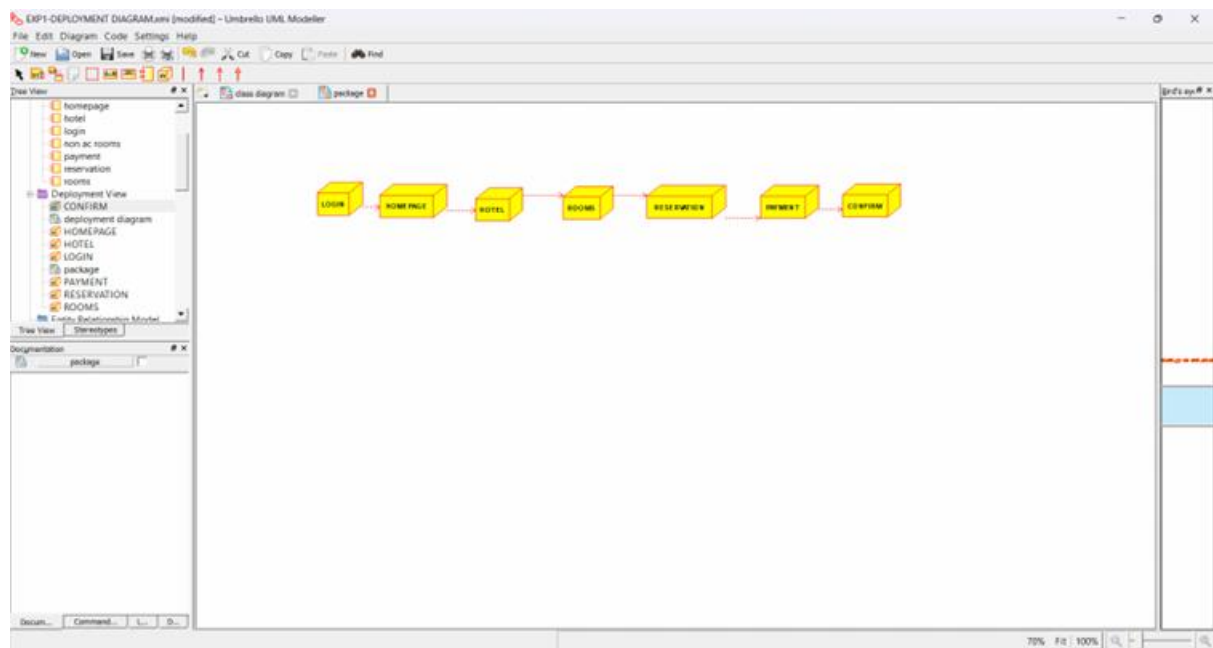
To design a **UML Diagram** for a **Hotel Reservation System**, which allows customers to book hotel rooms online by specifying their accommodation preferences. The system verifies room availability, calculates charges, and confirms reservations based on customer approval.

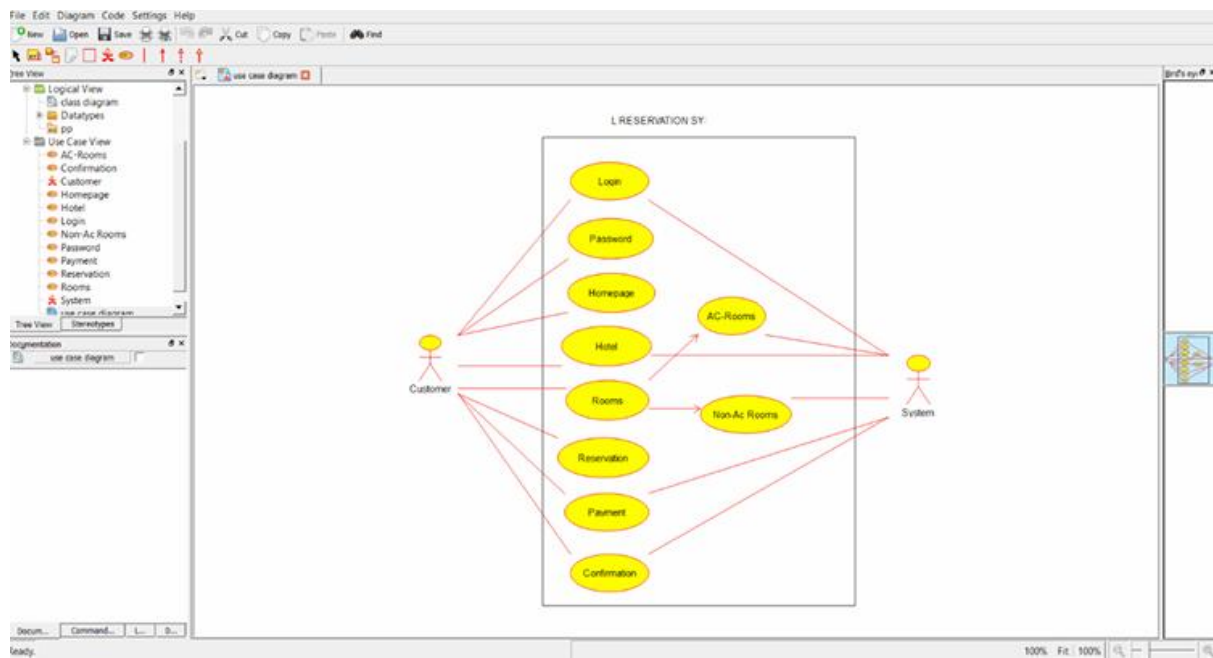
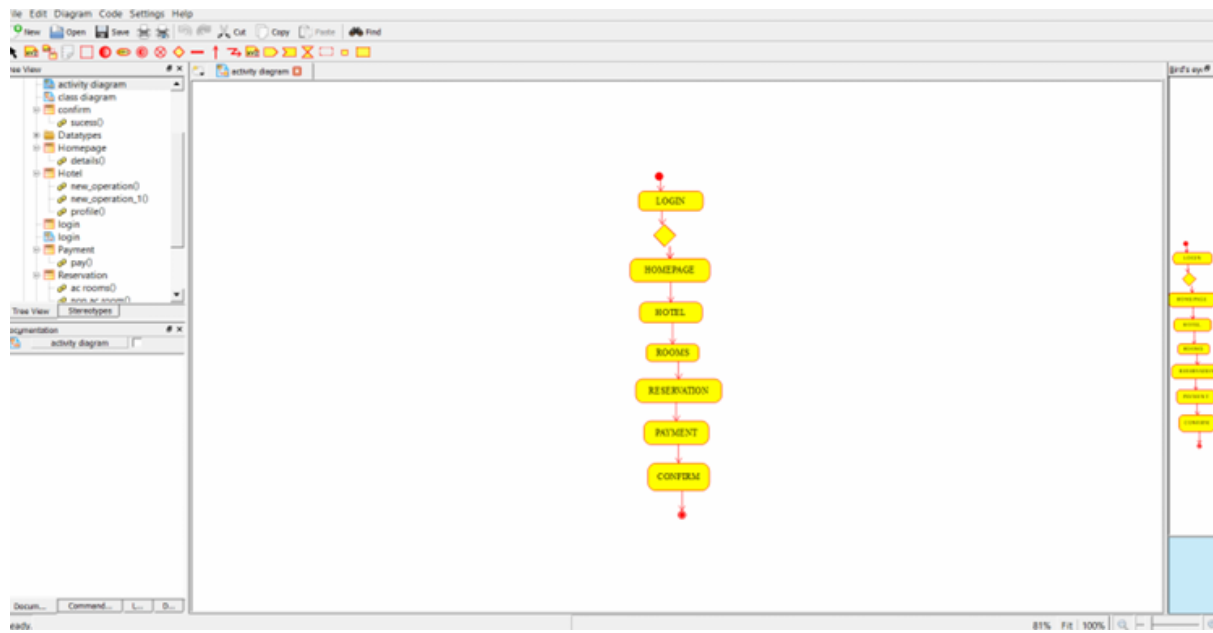
PROCEDURE

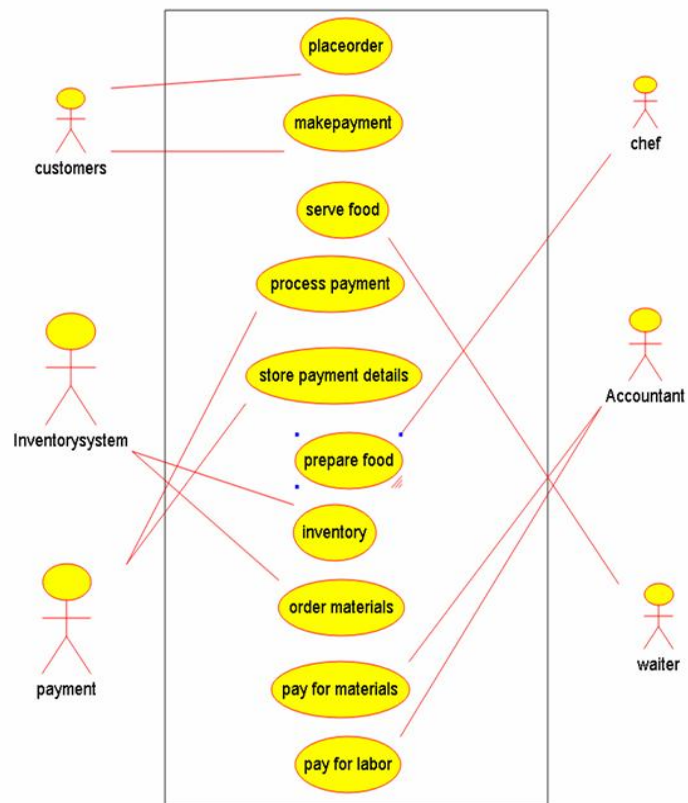
1. **Identify Key Entities** – Customer, Hotel, Room, Reservation, and Payment.
2. **Define Relationships** – A customer books a hotel, which contains rooms, and payment is processed.
3. **Determine Use Cases** – Search hotel, check room availability, calculate charges, confirm booking, process payment.
4. **Create Class Diagram** – Represent classes (Customer, Hotel, Room, Reservation, Payment) with attributes and methods.
5. **Draw UML Diagram** – Show associations between entities (e.g., Customer → Reservation, Hotel → Room).
6. **Review & Finalize** – Ensure completeness and correctness of the UML diagram.

Output









Result

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