**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**LIST OF EXPERIMENTS**

**COURSE CODE : CSA4001**

**COURSE NAME : MANAGEMENT INFORMATION SYSTEM**

3) **Make an Online Airline Reservation System. The activities of the Online Airline Reservation system are listed below user, admin, LOGIN, MANANGE CLASSES, MANANGE WAITING LIST, MANAGE HOLDS, MANAGE DEADLINES, LOGOUT, using this has a step-by-step process draw a CLASS diagram.**
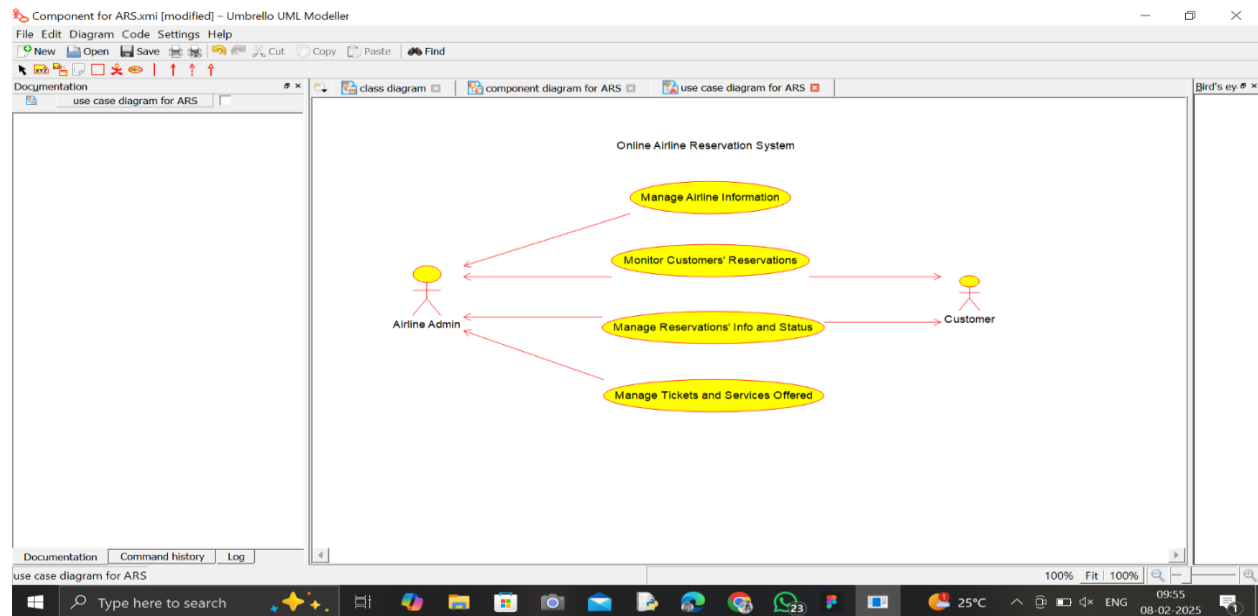
**AIM:**
To design a **UML diagram** for an **Online Airline Reservation System**, which enables users to book airline tickets, while the admin manages flight classes, waiting lists, holds, and deadlines.
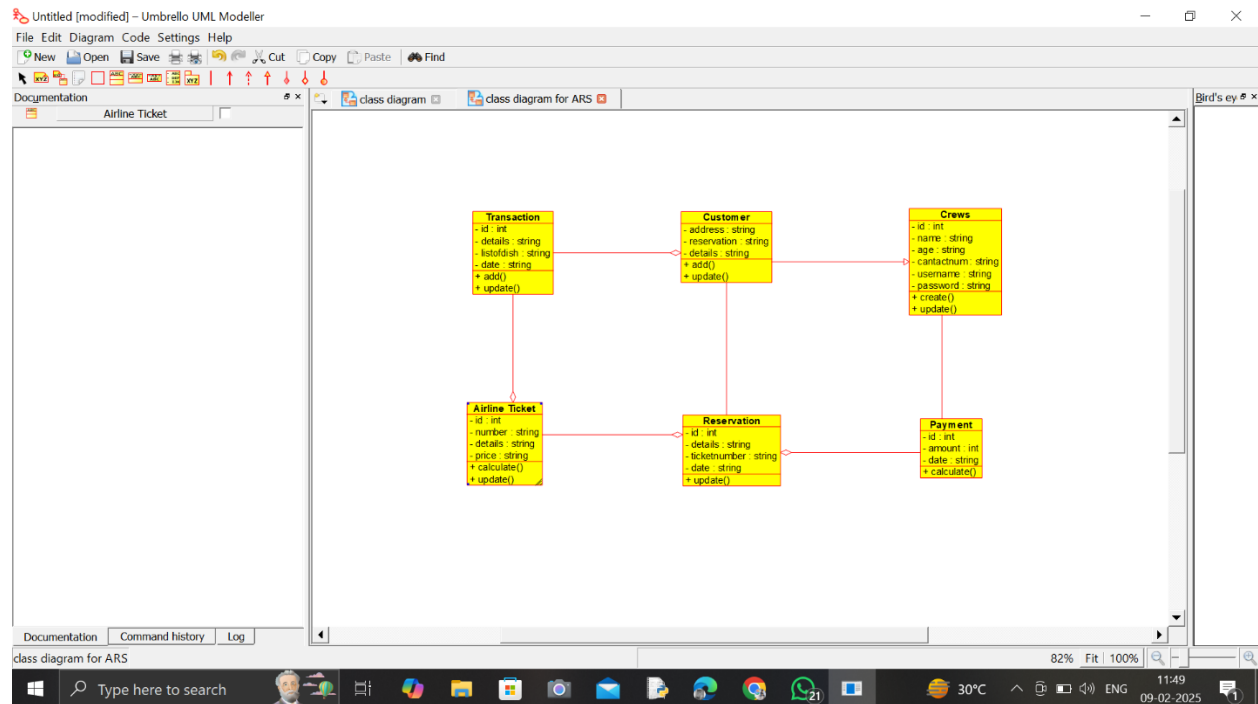
**PROCEDURE:**
1. **User/Admin Login**
   o Users and admins log into the system using valid credentials.
2. **Manage Flight Classes** *(Admin Function)*
   o The admin adds, updates, or removes different flight classes (e.g., Economy, Business, First Class).
3. **Manage Waiting List** *(Admin Function)*
   o If flights are fully booked, users can be added to a waiting list.
   o The admin monitors and updates the waiting list.
4. **Manage Holds on Reservations** *(Admin Function)*
   o The admin can put temporary holds on reservations due to specific conditions (e.g., pending payments, VIP bookings).
5. **Manage Deadlines for Bookings** *(Admin Function)*
   o The admin sets deadlines for booking confirmations and payments.
6. **User Makes a Reservation**
   o The user selects a flight, chooses a class, and confirms the booking.
   o Payment is processed, and a ticket is issued.
7. **User/Admin Logout**
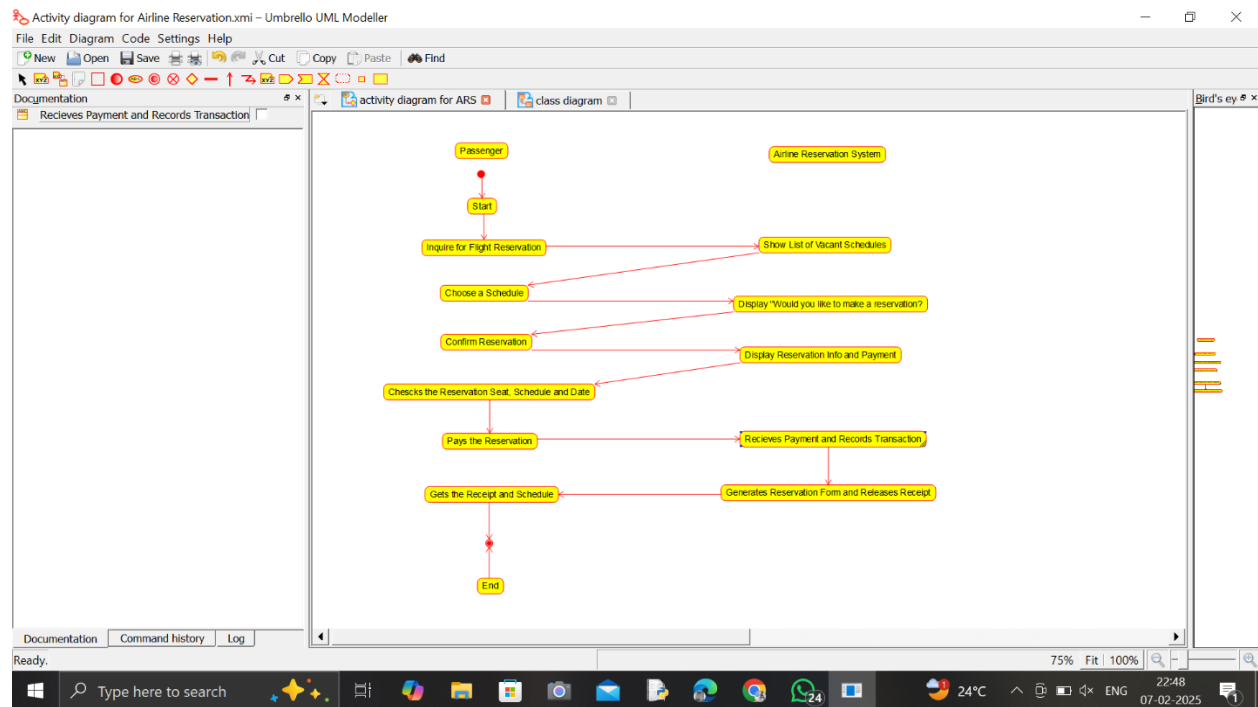   o After completing their tasks, users and admins log out securely.
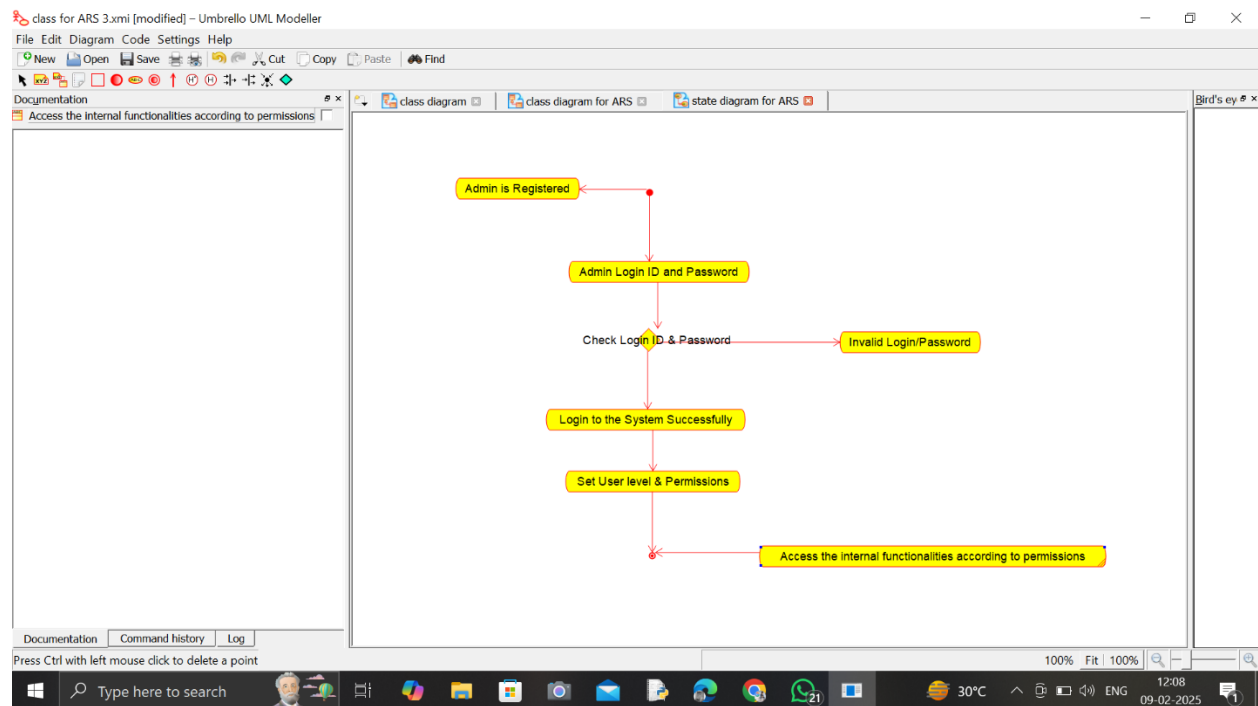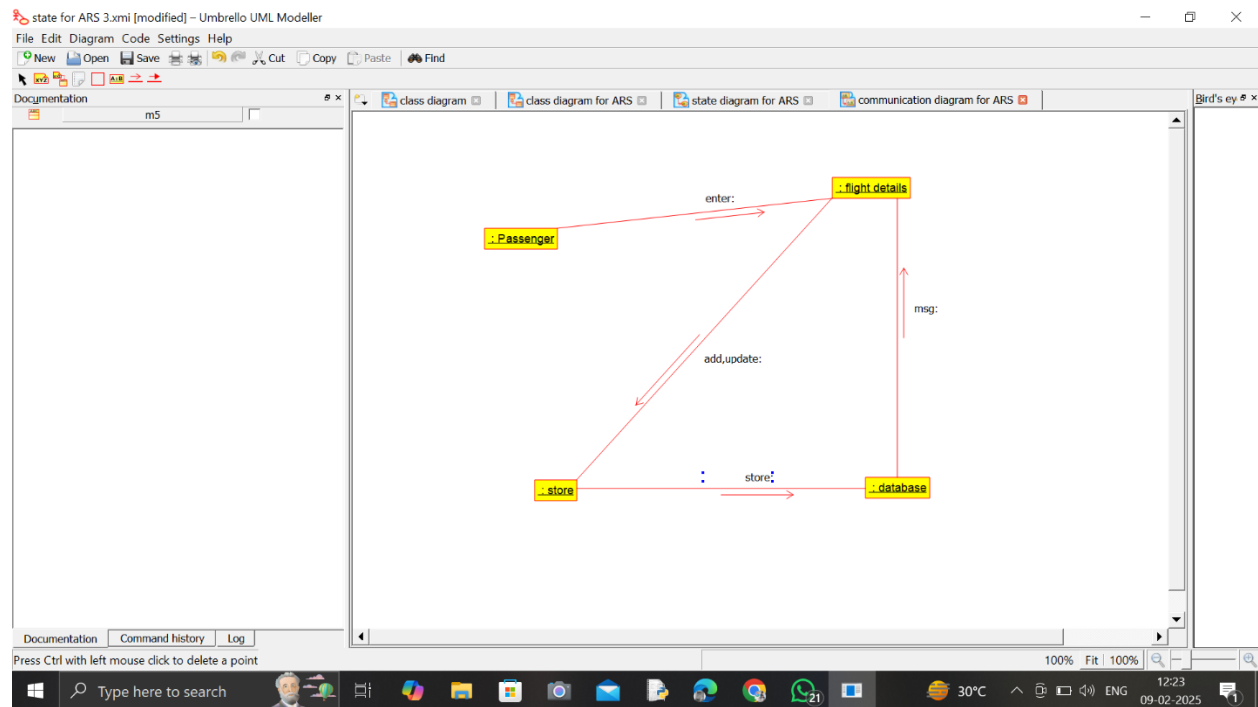
# OBSERVATION:

## USECASE DIAGRAM:



## CLASS DIAGRAM:
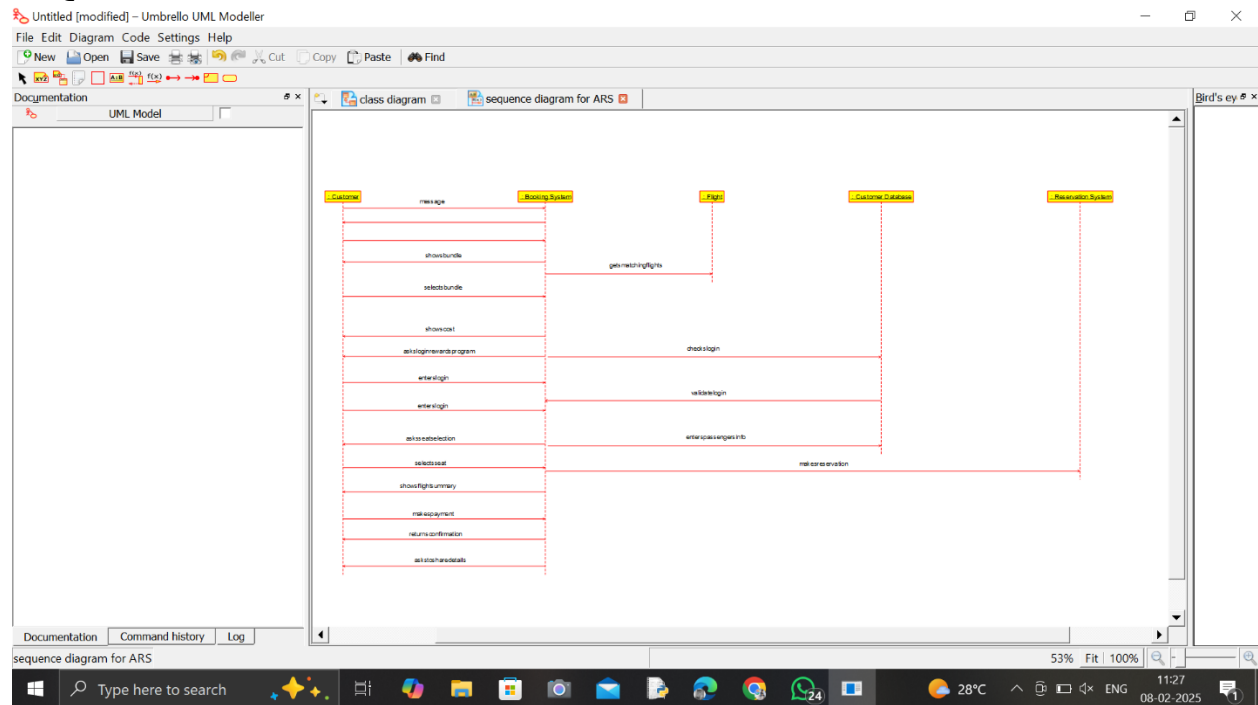
# ACTIVITY DIAGRAM:


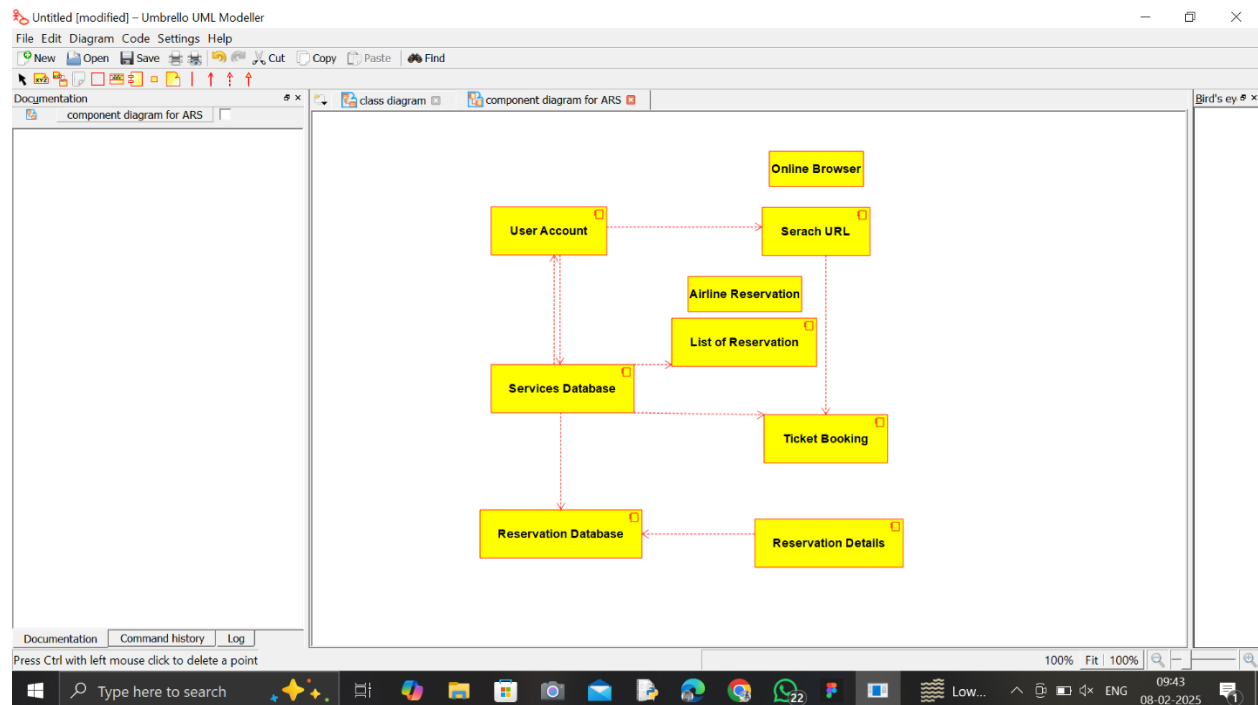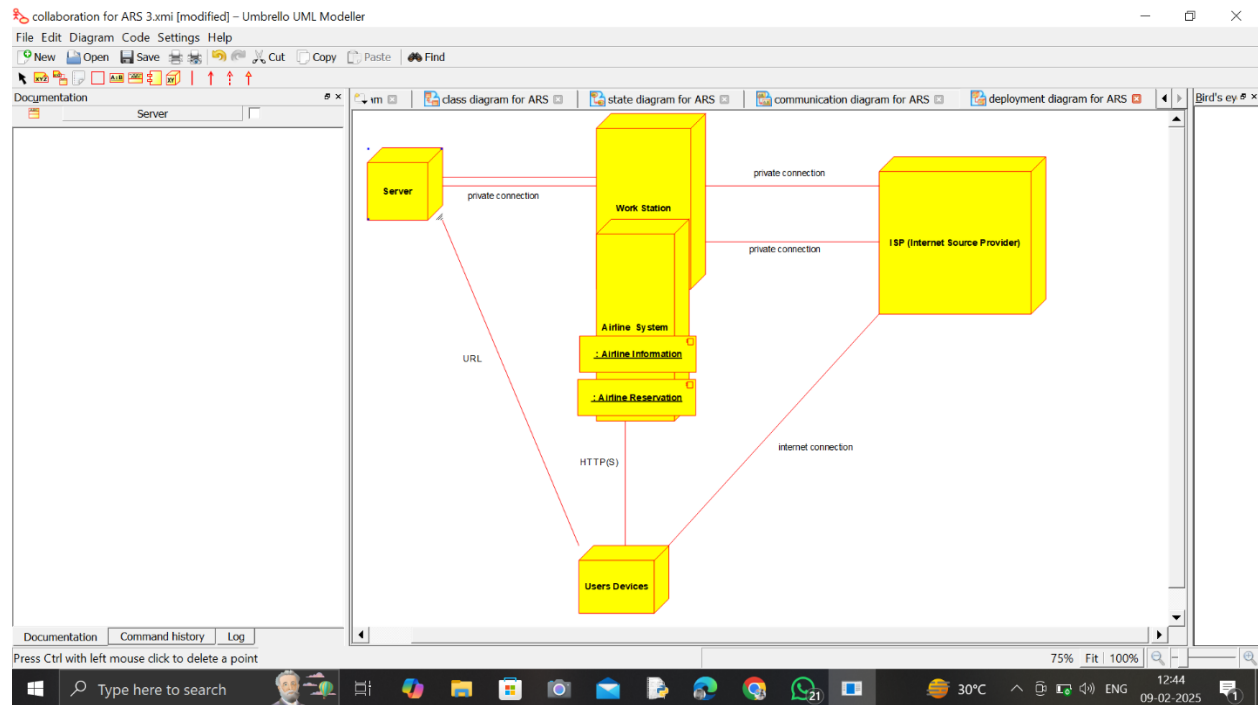
# STATE DIAGRAM:

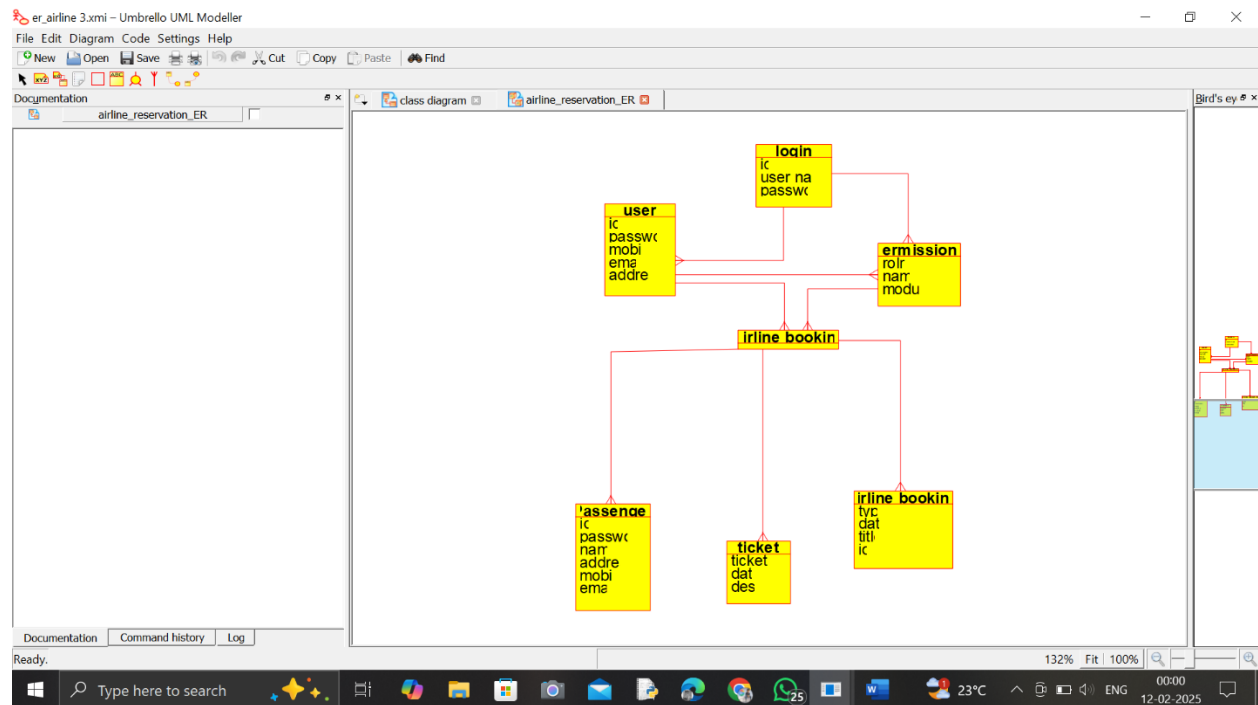# COLLABORATION DIAGRAM:



# SEQUENCE DIAGRAM:

# COMPONENT DIAGRAM:



# DEPLOYMENT DIAGRAM:

# ER DIAGRAM:



# RESULT:

The Online Airline Reservation System enables users to book flights, while the admin manages classes, waiting lists, holds, and deadlines. The system ensures secure login, smooth reservations, and efficient airline management.