EXERCISE-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.
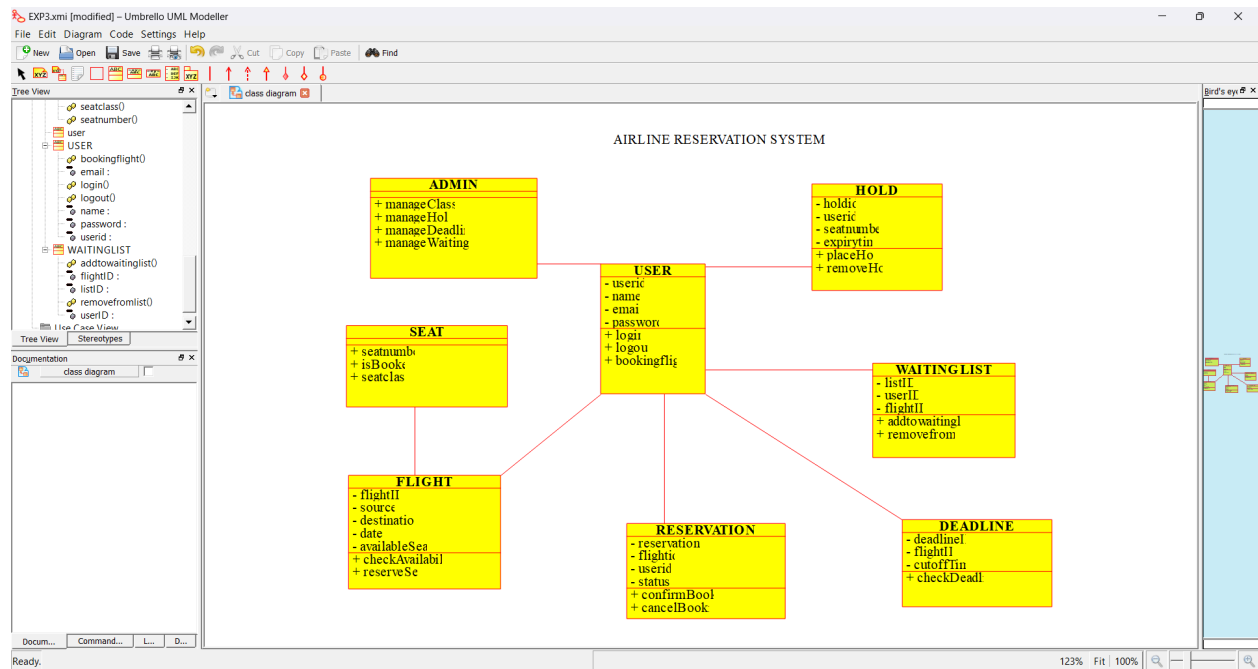
Aim:

To develop a **Class Diagram** for an **Online Airline Reservation System**, representing the relationships and structure of various system components.

Procedure:
1. **Identify Main Classes** – Define key entities: User, Admin, Login, Manage Classes, Manage Waiting List, Manage Holds, Manage Deadlines, Logout.
2. **Define Attributes** – Assign relevant attributes to each class, such as user credentials, flight details, and reservation status.
3. **Define Methods** – Specify functionalities like bookTicket(), cancelTicket(), updateDeadline(), and manageClasses().
4. **Establish Relationships** – Connect classes using associations, generalizations (inheritance), and dependencies.
5. **Identify Multiplicity** – Define the number of objects involved in relationships (e.g., one Admin manages multiple Users).
6. **Use UML Notations** – Represent classes as rectangles, with attributes and methods inside, and use arrows for relationships.
7. **Draw Class Diagram** – Organize and position classes logically, ensuring clarity in relationships and structure.
8. **Review and Validate** – Check for correctness, completeness, and adherence to UML standards.

Class Diagram

Result:

A **Class Diagram** for the **Online Airline Reservation System** was successfully developed, illustrating class relationships, attributes, and methods.