

10) Draw a use case diagram for Library Management System is an automation system used to manage a library and the different resource management required in it like cataloguing of books, allowing check out and return of books, invoicing, user management, etc. The user can search for books details using few book properties (Book ID, Title, Author, and Publisher). Searching should return details about all the book copies that match the search query.

AIM

To develop a **Use Case Diagram** for a **Library Management System**, illustrating interactions between users and system functionalities such as book search, checkout, return, invoicing, and user management.

PROCEDURE

Identify Actors: Librarian, Library Member (User).

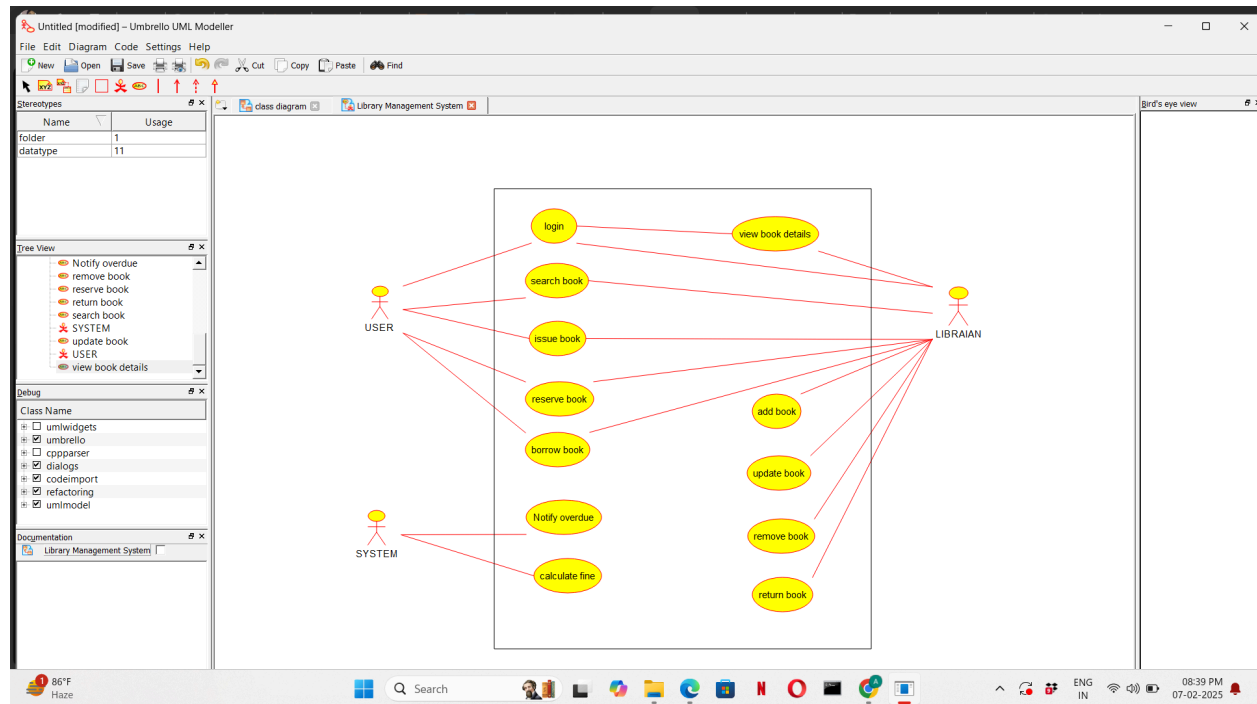
Identify Use Cases: Search Books, Check Out, Return Books, Manage Users, Manage Books, Generate Invoice.

Establish Relationships: Users interact with book-related functions, librarians manage books and users.

Draw Use Case Diagram: Use stick figures for actors, ovals for use cases, and connect them with lines.

DIAGRAM

USE CASE DIAGRAM



RESULT

The **Use Case Diagram** for the **Library Management System** has been successfully developed, representing interactions between users, books, and library operations.