Experiment-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.
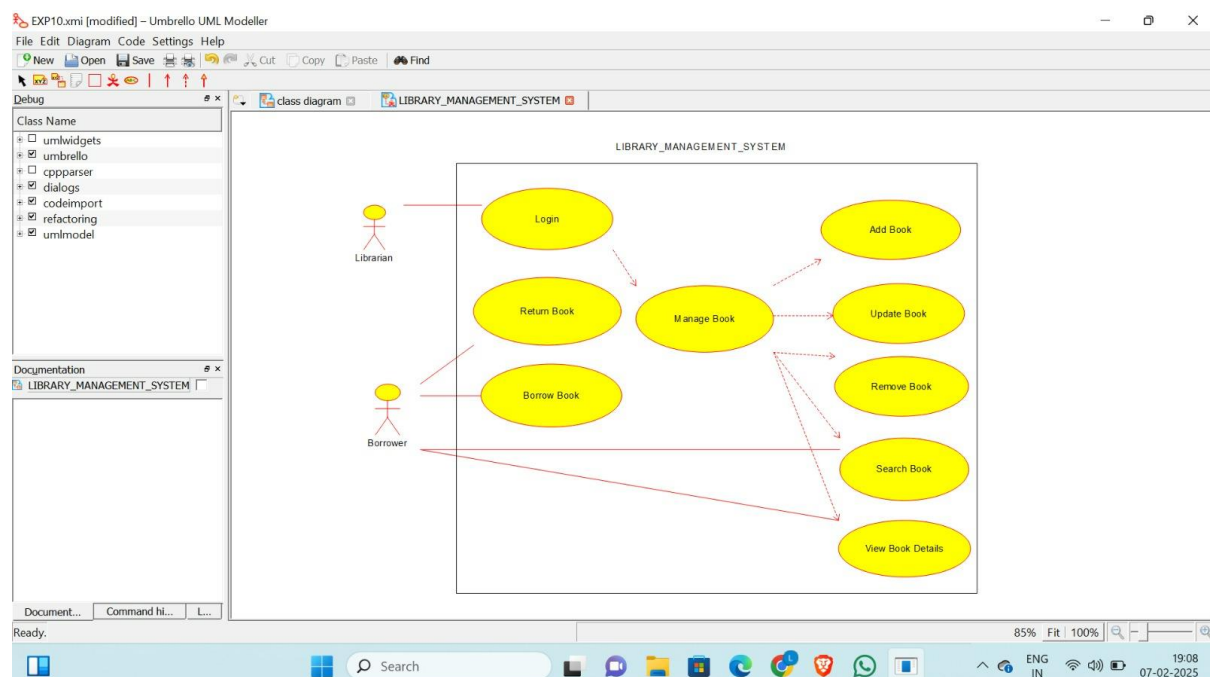
Aim

The aim of this project is to design and develop a **Library Management System** to illustrate the interaction between user and system compatibility.

Procedure

1. Register users by capturing their personal details and library membership information.

2. Catalog books by entering book details, including title, author, and publisher.

3. Allow users to search for books by properties like title, author, or ID.

4. Manage book checkouts and returns, updating availability and due dates.

5. Track overdue books, calculate fines, and process payments for fines or lost books.

USECASE DIAGRAM

Result

A Use Case Diagram for the Library Management System was successfully developed, detailing interactions for book cataloguing, checkouts, returns, invoicing, and user management.