

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 book details using a few book properties (Book ID, Title, Author, and Publisher). Searching should return details about all the book copies that match the search query.

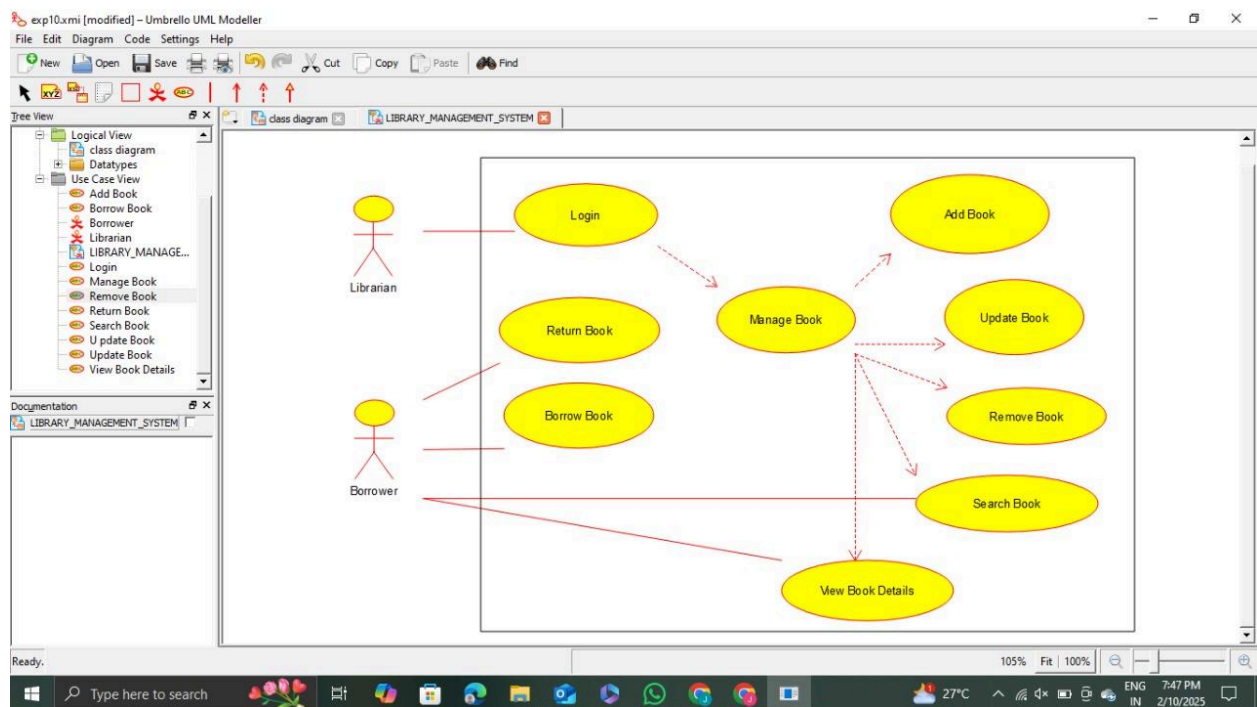
Aim:

To design a Use Case Diagram for a Library Management System that models interactions between users and the system for tasks like searching, checking out, and returning books.

Procedures:

1. Identify actors: User (Library Member), Librarian, and System.
2. Define use cases like Search Books, Check Out Books, Return Books, and Manage User Accounts.
3. Establish relationships between actors and use cases using associations.
4. Add use cases for Invoicing and Cataloguing Books for library management.
5. Draw the Use Case Diagram representing all actors, use cases, and interactions.

Use Case Diagram:



Result:

The Use Case Diagram for the Library Management System was successfully developed, representing the interactions of users with the system's functionalities.