

## PROGRAMS:

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.

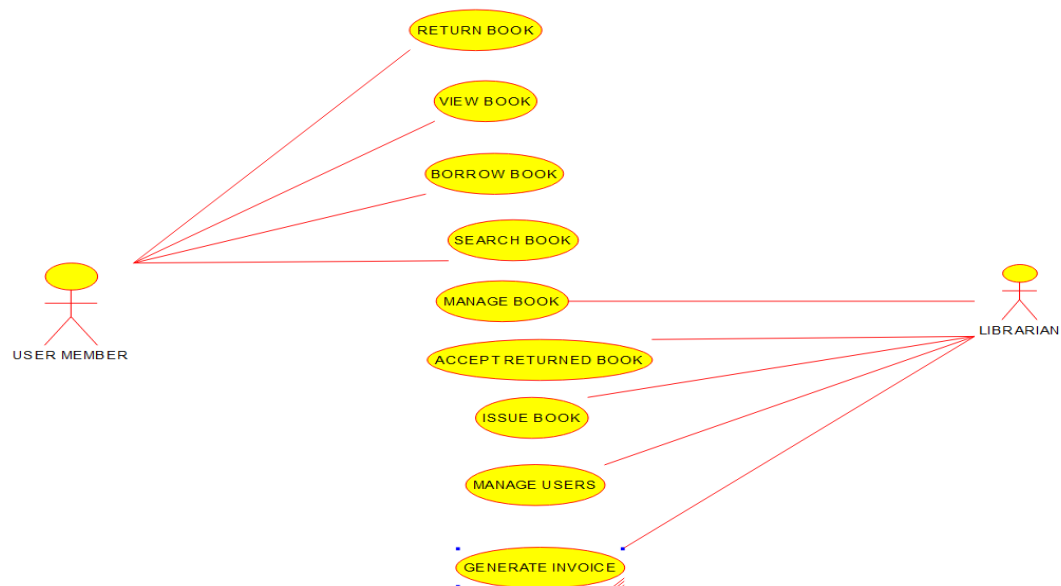
### AIM:

To design a Use Case Diagram for a Library Management System that automates library operations such as book cataloging, user management, book borrowing, and return processes.

### PROCEDURE :

- STEP 1:** Open UML modeling software such as Umbrello, StarUML, or PlantUML.
- STEP 2:** Identify the main actors involved in the system
- STEP 3:** Define the use cases that each actor performs
- STEP 4:** Draw actors as stick figures and use cases as ovals in the UML tool.
- STEP 5:** Connect actors to their respective use cases using association lines.
- STEP 6:** Ensure the diagram clearly represents how actors interact with the system.
- STEP 7:** Save and export the UML diagram for documentation.

### OUTPUT:



### RESULT:

The Use Case Diagram for the Library Management System was successfully created, illustrating the interactions between Librarians and Members with the system to manage books, users, and transactions efficiently.