

Ex 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.

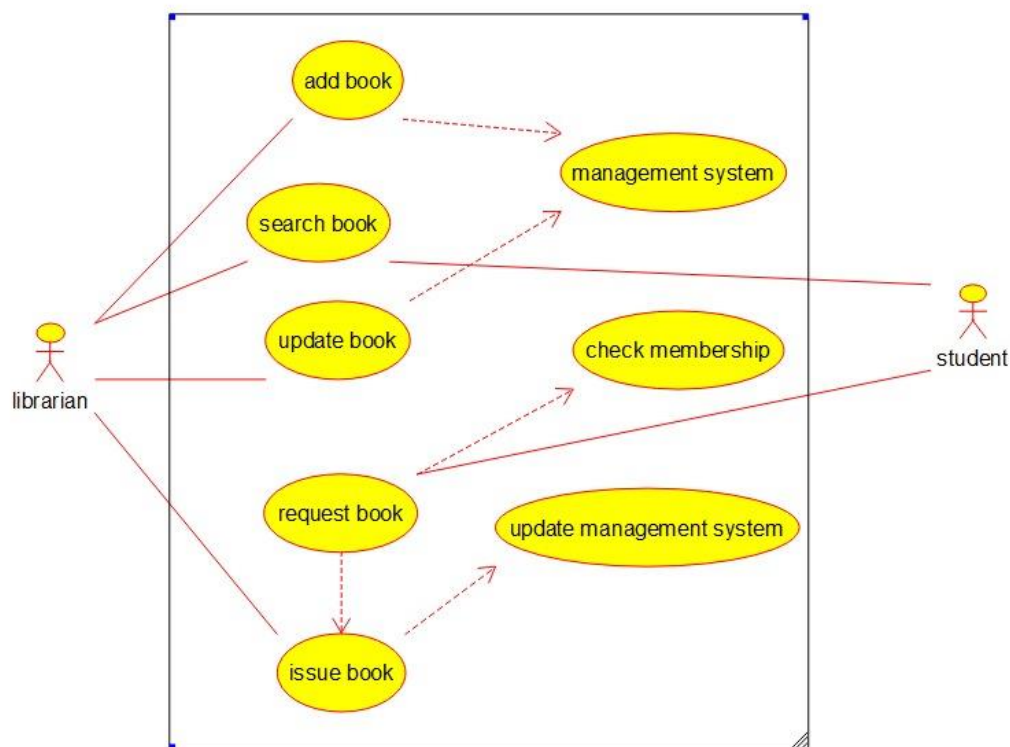
Aim:

To design a use case diagram for a Library Management System that automates library functions like cataloguing books, managing checkouts and returns, invoicing, and user management.

Procedure:

1. Identify the main actors: User, Librarian, System.
2. Define the key use cases: Search Books, Checkout Books, Return Books, Manage Users, Catalog Books, Generate Invoice.
3. Establish the relationships between actors and use cases.
4. Create the use case diagram showing interactions.

Output:



Result:

The diagram represents the functional flow of interactions between users and the system, helping to automate library tasks like searching, checkout, return, and user management. It ensures a streamlined process for library operations.