**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
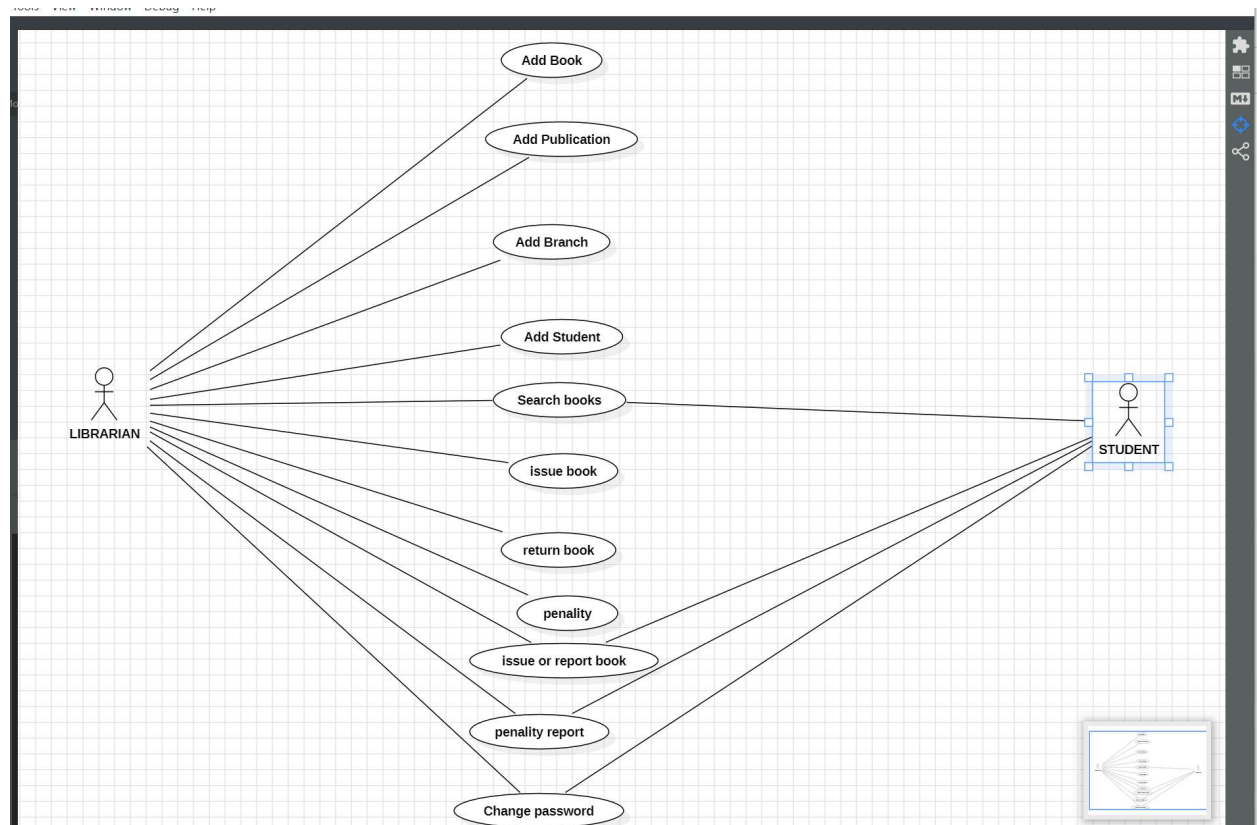
## AIM:

To develop a **Library Management System** that automates library operations such as book cataloging, user management, book check-out, return, invoicing, and searching for books based on various attributes.

## PROCEDURE:

1. **User Management** – Users (members) register and log in to access the system.
2. **Search for Books** – Users can search for books using properties like Book ID, Title, Author, or Publisher.
3. **View Book Details** – The system displays details of all matching book copies.
4. **Check-out Books** – Users can borrow books from the library.
5. **Return Books** – Users return borrowed books to the library.
6. **Manage Books** – The librarian adds, updates, or removes books from the catalog.
7. **Generate Invoice** – The system generates invoices for late returns or membership fees.

## USE CASE DIAGRAM:



## RESULT:

Successfully developed a **Library Management System** that automates cataloging, user management, book check-out, return, invoicing, and book searches based on user queries.