

## EXERCISE: 10

### LIBRARY MANAGEMENT SYSTEM

#### AIM:

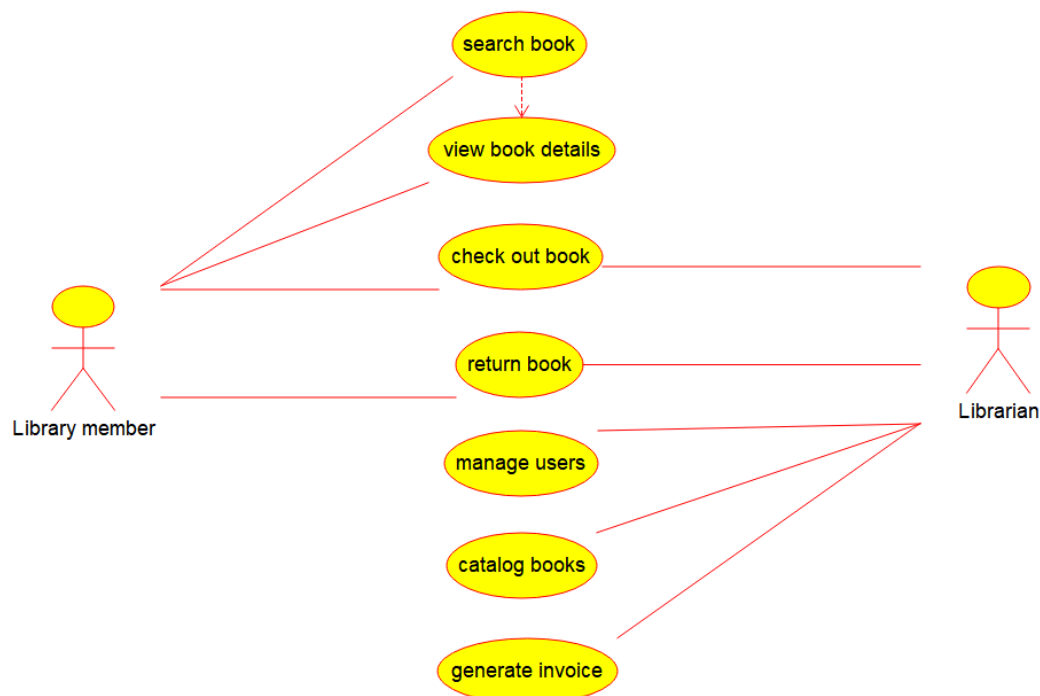
To design and implement a Use case Diagram for a Library Management System using Umbrello UML modeling software.

#### PROCEDURE:

1. Install and open Umbrello UML Modeller on the system.
2. Create a new UML project in Umbrello.
3. Identify the actors: Librarian and Library Member.
4. Identify the use cases: Search Book, View Book Details, Check Out Book, Return Book, Manage Users, Catalog Books, and Generate Invoice.
5. Draw the system boundary and name it "Library Management System".
6. Connect the Library Member to Search Book, View Book Details, Check Out Book, and Return Book.
7. Connect the Librarian to Manage Users, Catalog Books, and Generate Invoice.
8. Establish relationships like Include between Search Book and View Book Details.
9. Save the diagram and export it as an image file for documentation.

#### DIAGRAM:

#### USE CASE DIAGRAM



## **RESULT:**

The Use case Diagram for the Library Management System has been successfully designed using Umbrello, representing various components and their relationships in the system.