# Software Engineering
# Lab Assignment
# Group-23

## 1)Use Case Diagram



Library Management System

- Login --<<include>>-- Verification → Student Database
- Search Book
- Issue Book
  - <<include>> Book availbility
  - <<include>> Book Limit
  - <<include>> Student Verification
- Return
  - <include> Fine Calculation
  - <include> Due Date Verification
- Update Book returned details
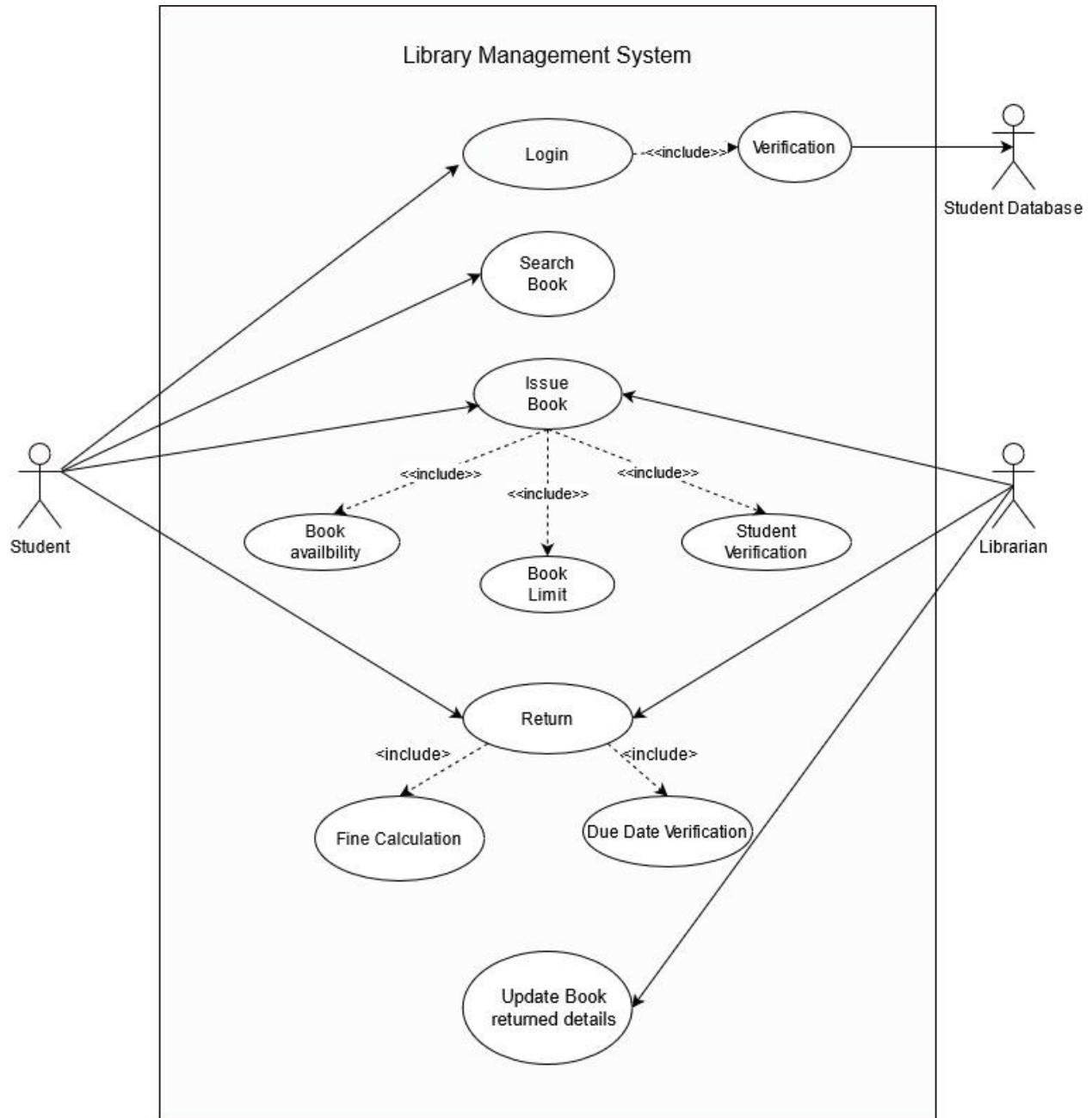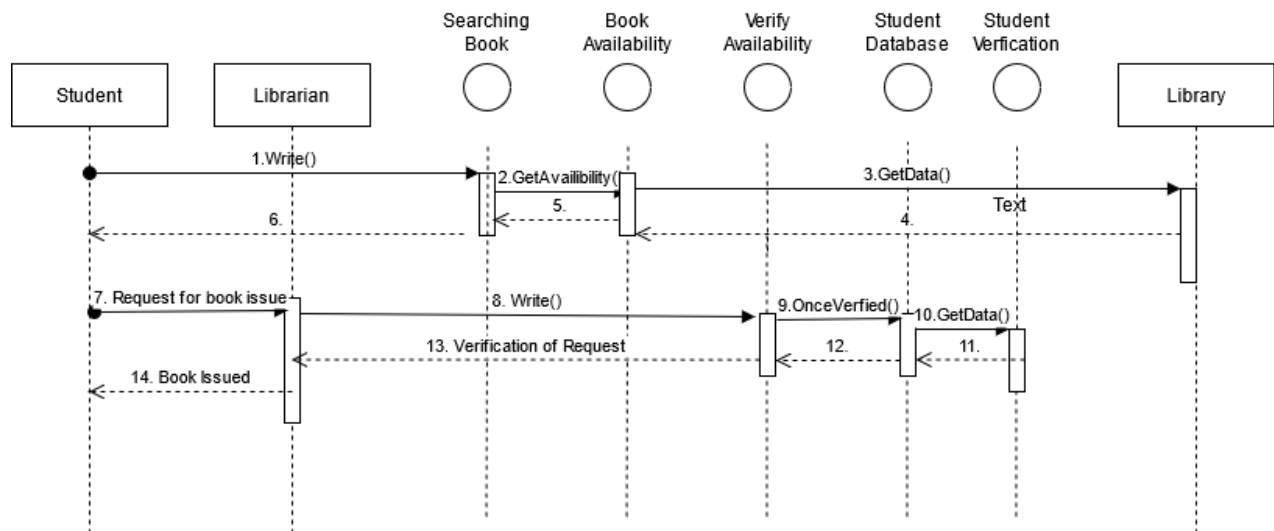
Student

Librarian

# Documentation:

Actors:Student, Librarian ,Student Database
1. Student wants to issue a book
    a. Login to system
    b. Can search for a book
2.Librarian will issue the book.
    a. Librarians will issue books to the students.
    b. Check if the student is valid or not
    c. Checks if the student has reached the limit for number of books.

# 2. Sequence Diagram

# 3. Analysis Object Diagram

**Student**
+Name : String
+ID : integer
-Address: String

+Get Book details ()
+Check()

**BookDB**
+Availability: Bool

+GetData()

Stored

**Book**
+Title: String
+Author name: String

+ Update books ()

Checks for Book Availability.

Information

**Librarian**
+ Name: String

+ ID : Int

+ Press()

Verifies

**StudentDB**

+GetData()

Maintains