IT313 Lab-07

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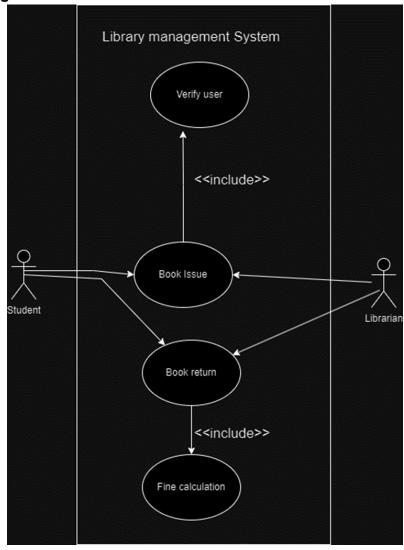
ld: 202101230

Group: 3

Project Group: 14

Q-1 1.1

Use Case Diagram:



Documentation:

Use case name: Issue Book

Description: This use case represents the process of a registered student borrowing a book from the library for a specified period.

Primary Actor: Registered Student

Secondary Actor: Library (Library system)

Preconditions:

- The registered student must be logged in and authenticated by the librarian.
- The book being issued must be available in the library.
- The student's account should be in good standing (no overdue books or fines).

Postconditions:

- The book is marked as issued to the student.
- The due date for returning the book is set.
- The student is notified of the successful issuance.

Mainflow:

- 1. The registered student requests to issue a book.
- 2. The system validates the student's authentication status (using "Authenticate User" use case).
- 3. The system checks if the requested book is available.
- 4. If the book is available, the system marks it as issued to the student.
- 5. The system sets the due date for returning the book.
- 6. The system notifies the student about the successful issuance.

Alternate Flows:

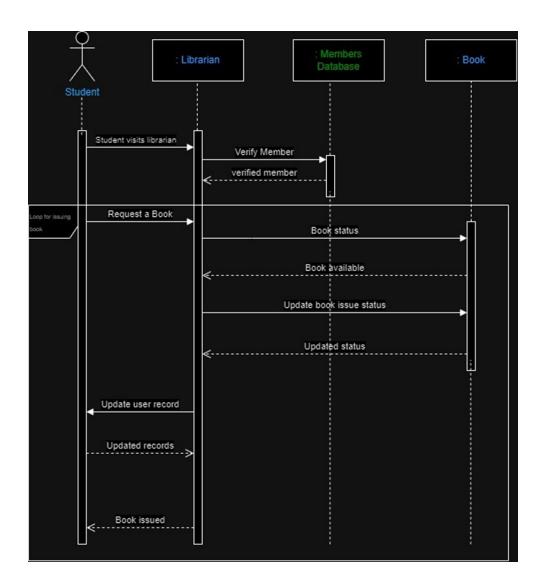
1. If the book is not available, the system notifies the student that the book cannot be issued at the moment.

1.2

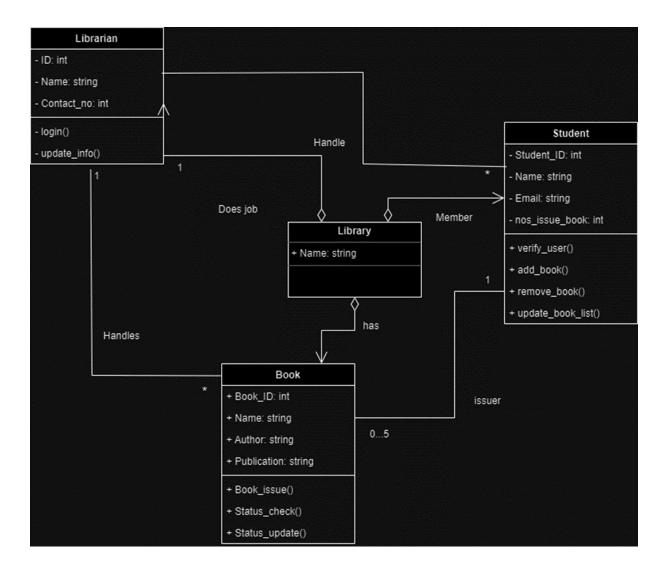
Objects:

- Registered Student
- Library System
- Book
- Librarian

Sequence Diagram for "issueBook":



Analysis Object Diagram for "issueBook" use case:



<u>Q-2</u>

Sequence Diagram:

