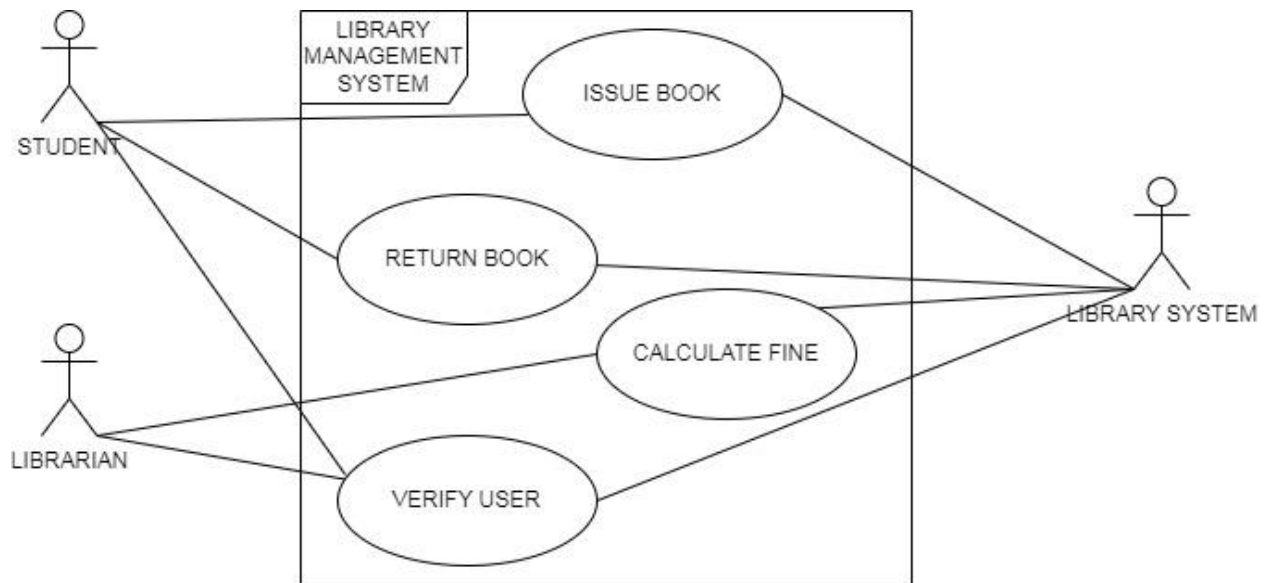# IT314 Software Engineering
LAB REPORT 7

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By Chirayu Gandhi

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Group 4

Q1 Develop the following documents for the Library Management System.

1. Use case Diagram: -

Use Case Name: Issue Book

Description: This use case describes the process by which a registered student can issue a book from the library.

Primary Actor: Registered Student

Secondary Actor: Library and Librarian

Preconditions:

• The registered student must be logged in and authenticated by the librarian.

• The book being issued must be available in the library.

Postconditions:

• The book is marked as issued to the student.

• The due date for returning the book is set.

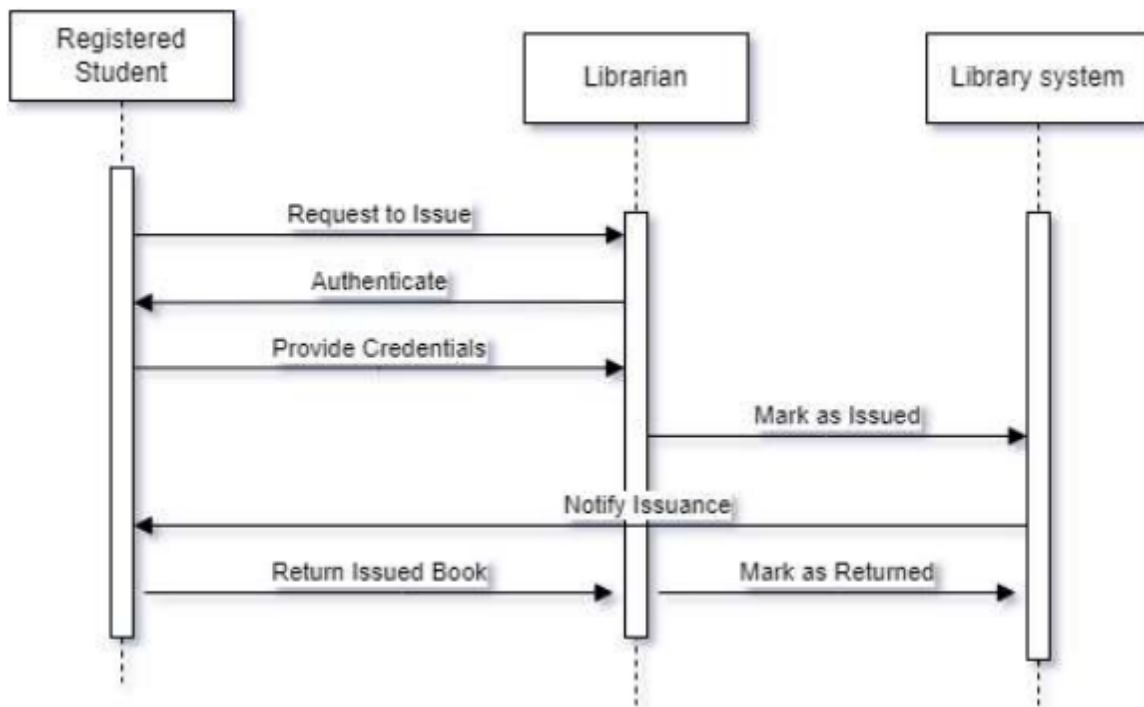• The student is notified of the successful issuance.

Main Flow:

• The registered student requests to issue a book.

• The system validates the student's authentication status.

• The system checks if the requested book is available.

• If the book is available, the system marks it as issued to the student.

• The system sets the due date for returning the book.

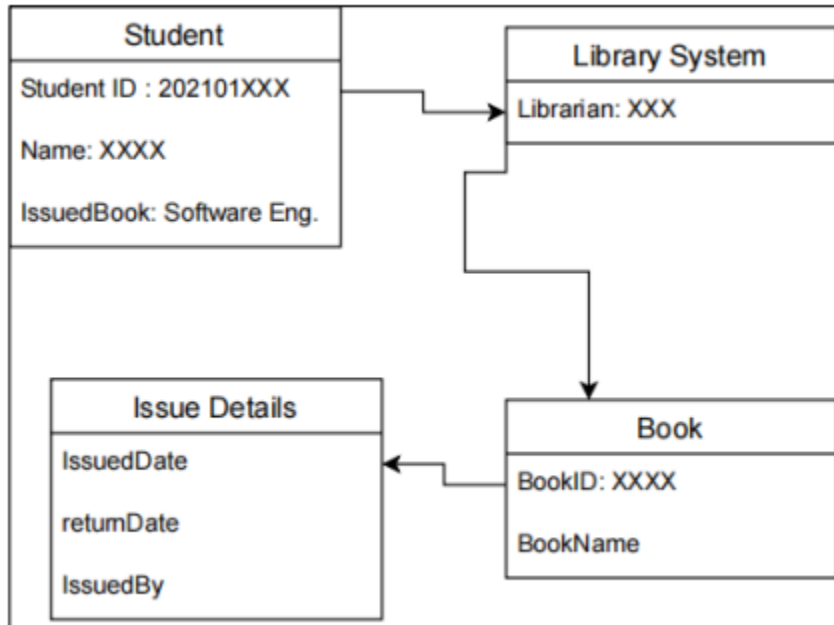• The system notifies the student and the librarian about successful issuance.

Alternate Flows:

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

• If the user is not authenticated, the system notifies the librarian.

2. Sequence Diagram: -

3. Analysis Object Diagram: -

Q2 Draw a sequence diagram for the given Examination Management Process.