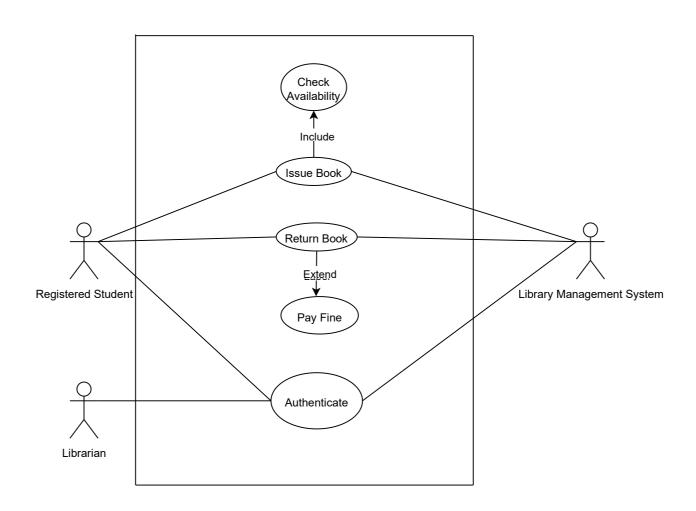
IT314 SOFTWARE ENGINEERING

Name: Naman Modi

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1) LIBRARY MANAGEMENT SYSTEM

a) Use case Diagram



Use Case Documentation

Use case name: Issue Book

Description: Represents the process Issuing book

Primary Actors: Registered Students

Secondary Actors: Library, Librarian

Pre-conditions:

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

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

Post-conditions:

• 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.

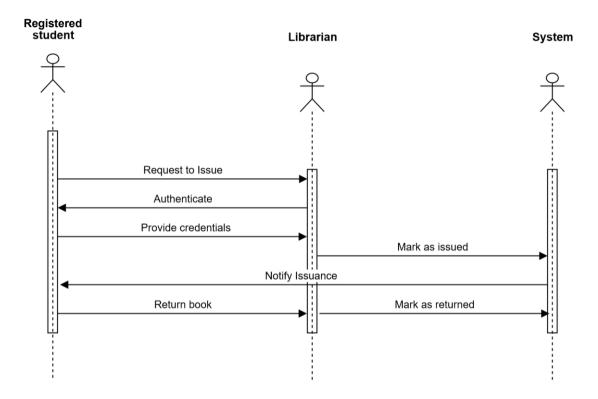
Main flow:

- 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 the successful issuance.

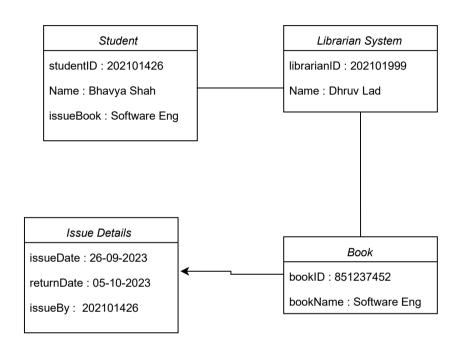
Alternate Flows:

- 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

b) Sequence Diagram



c) Class Diagram



2) Examination Management System

