

IT-313

Software Engineering

Lab-7

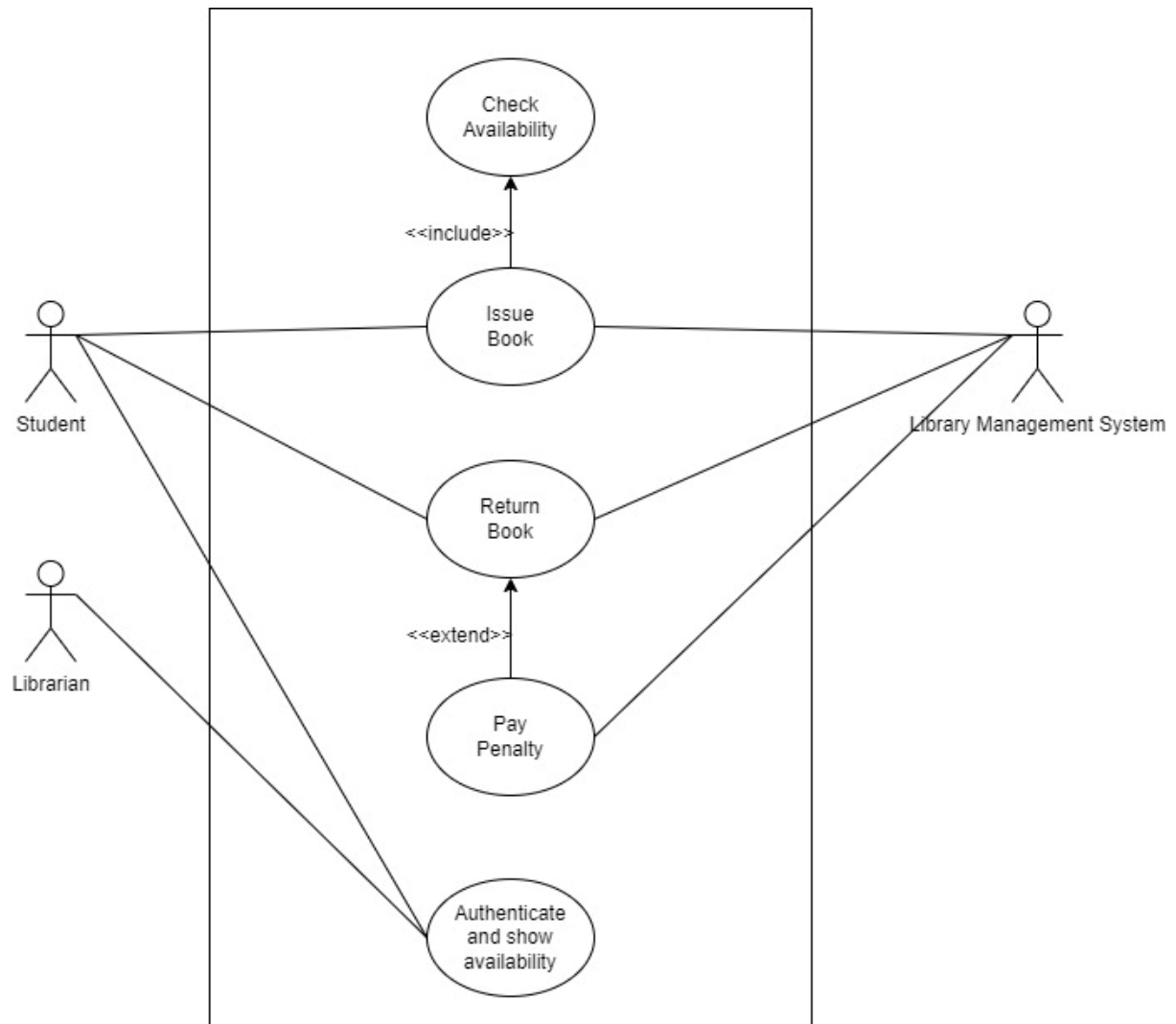
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Question 1:

1: 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.

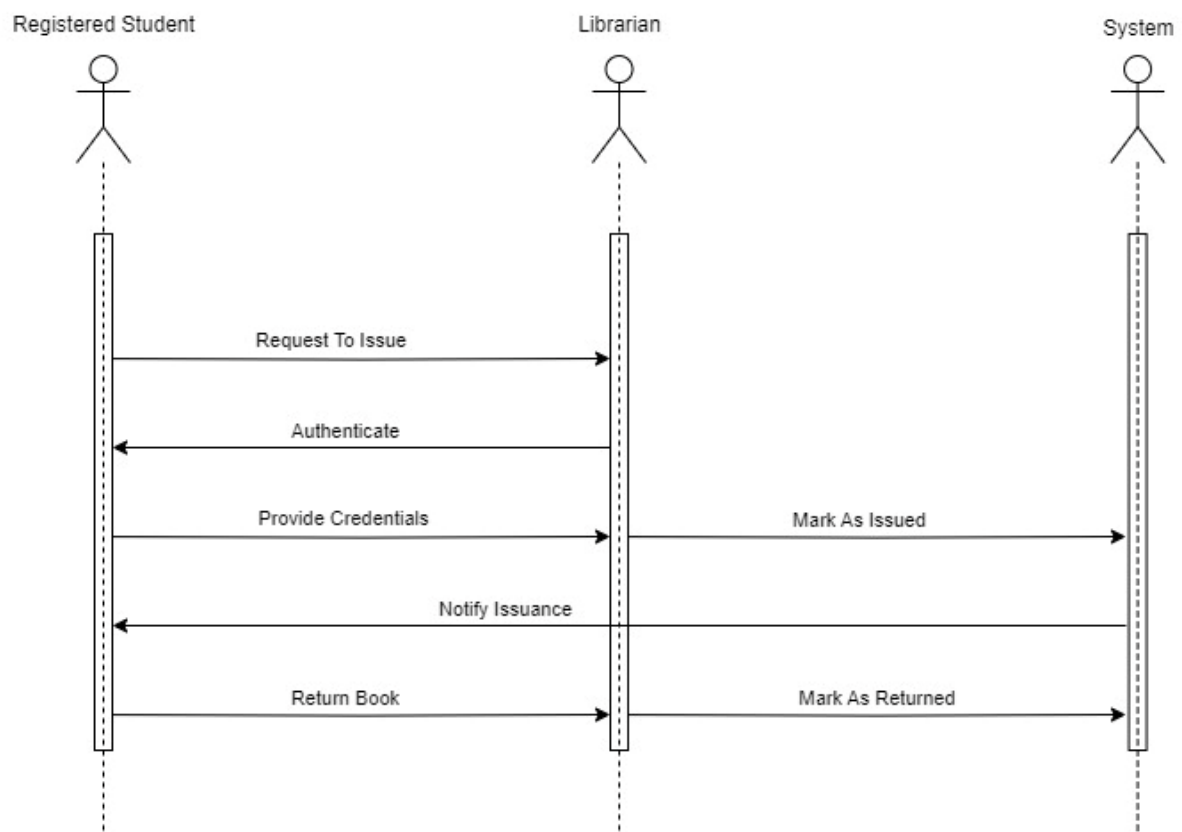
The system notifies the student and the librarian about the successful issuance.

Alternate Flows:

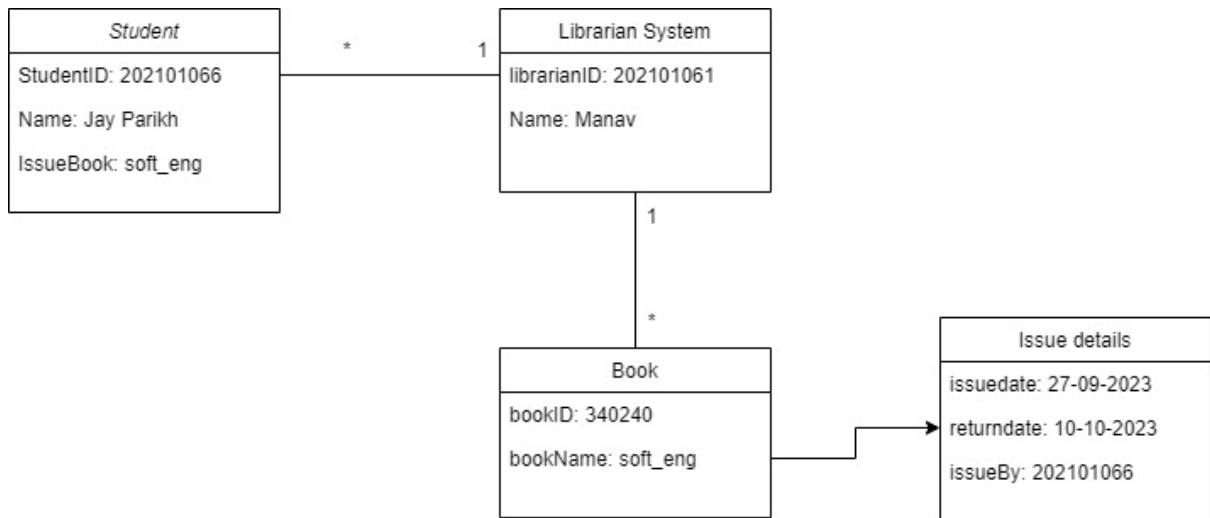
If the book is not available, the system notifies the student that the book cannot be issued at the moment.

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

2: Sequence Diagram



3: Class Diagram



Question 2:

Examination Management System

