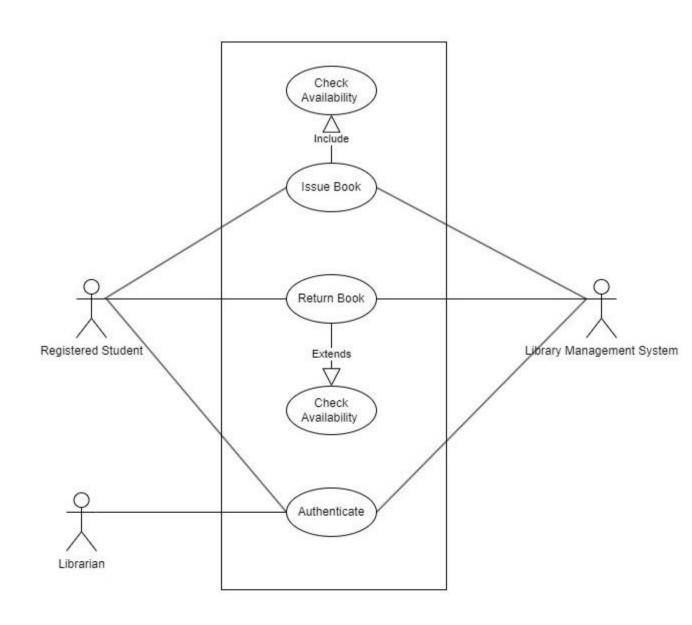
IT314 – SOFTWARE ENGINEERING

LAB 07 : DOMAIN ANALYSIS MODELING & SEQUENCE DIAGRAM

202101160 – Krupesh Parmar

- Que: 01 Library Management System
- 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.

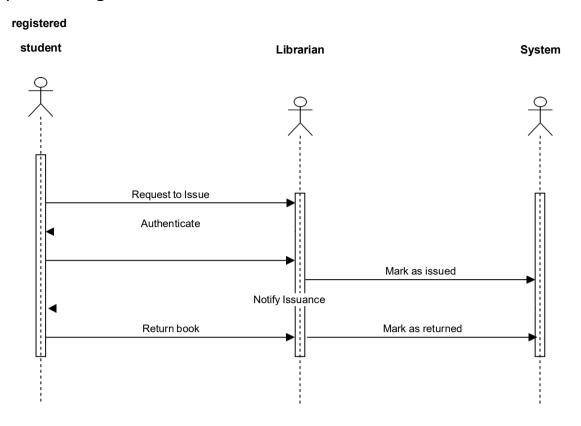
Main flow:

- 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.

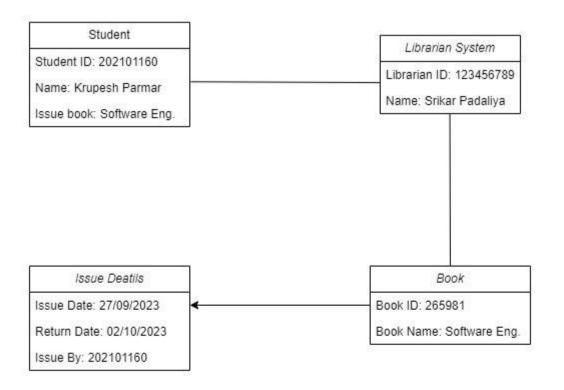
Alternate flow:

- 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



Que: 02 – Examination Management Process

