

SOFTWARE ENGINEERING IT313 LAB 7

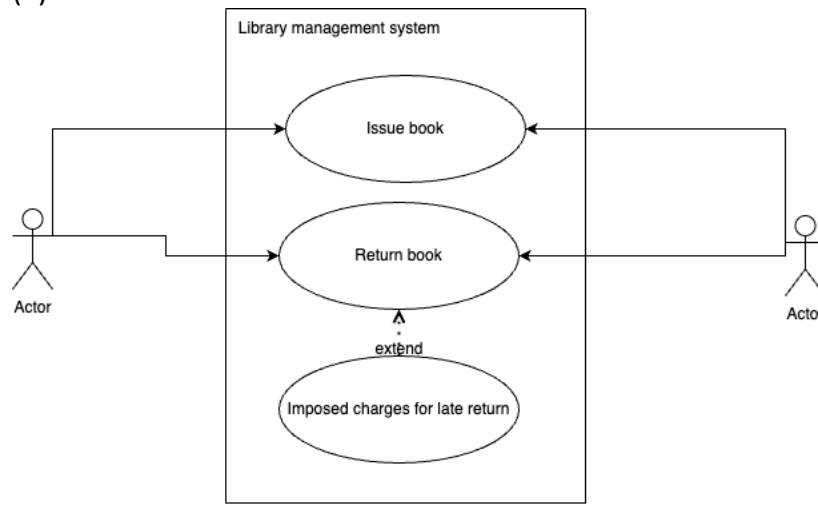
ID : 202101049

Name : Raj Chauhan

Date : 26 Sep 2023

Que1.

(1).



Use Case Name: Issuing a Book

Description: This use case outlines the process by which a registered student borrows a book from the library.

Primary Actor: Registered Student

Secondary Actors: Library Management System and Librarian

Preconditions:

- The registered student must need to log in and have to be verified by the librarian.
- The desired book must be available in the library's collection.

Postconditions:

- The book is marked as issued to the student.
- A due date for book return is established.
- The student receives a notification confirming the successful issuance.

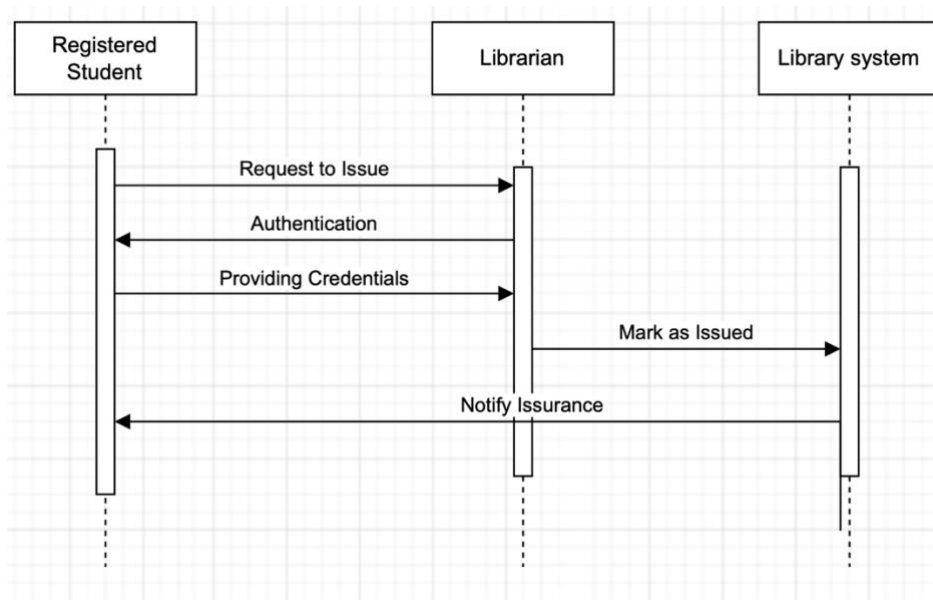
Main Flow:

1. The registered student initiates a book issuance request.
2. The system verifies the student's authentication status.
3. The system checks the availability of the requested book.
4. If the book is available, the system records it as issued to the student.
5. The system sets a due date for the book's return.
6. Notifications are sent to both the student and the librarian to confirm the successful issuance.

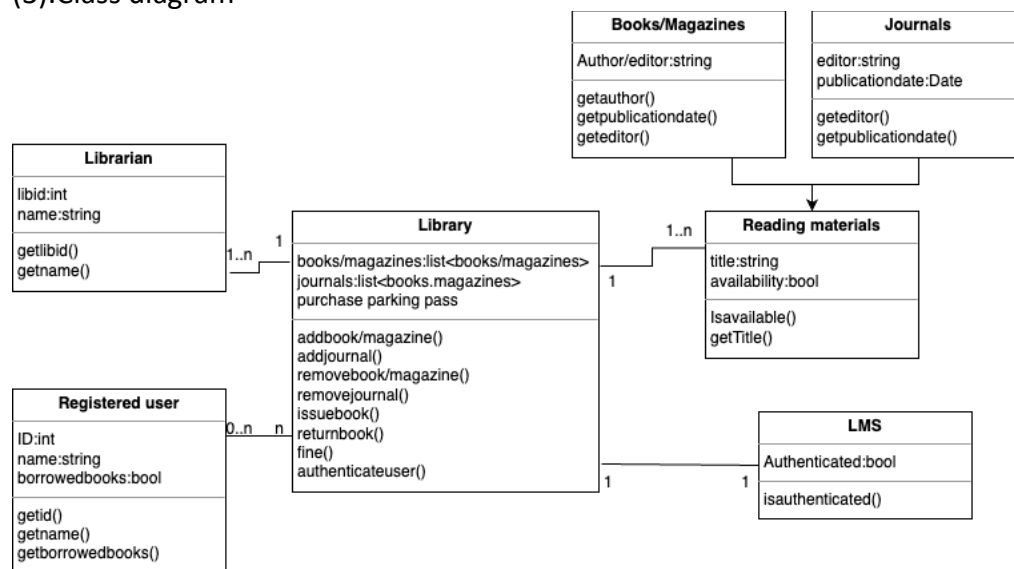
Alternative Flows:

- In case the user's authentication fails, the system informs the librarian of the issue.
- On unavailability of requested book , the system notifies the student that it cannot be issued at this moment.

(2).Sequence Diagram:



(3).Class diagram



Que2.

(1).Sequence diagram

