

IT313-Software Engineering
Lab 7

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Q1)

Documenting "Issue Book" Use Case:

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 System and Librarian

Preconditions:

- The registered student must log in and 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.

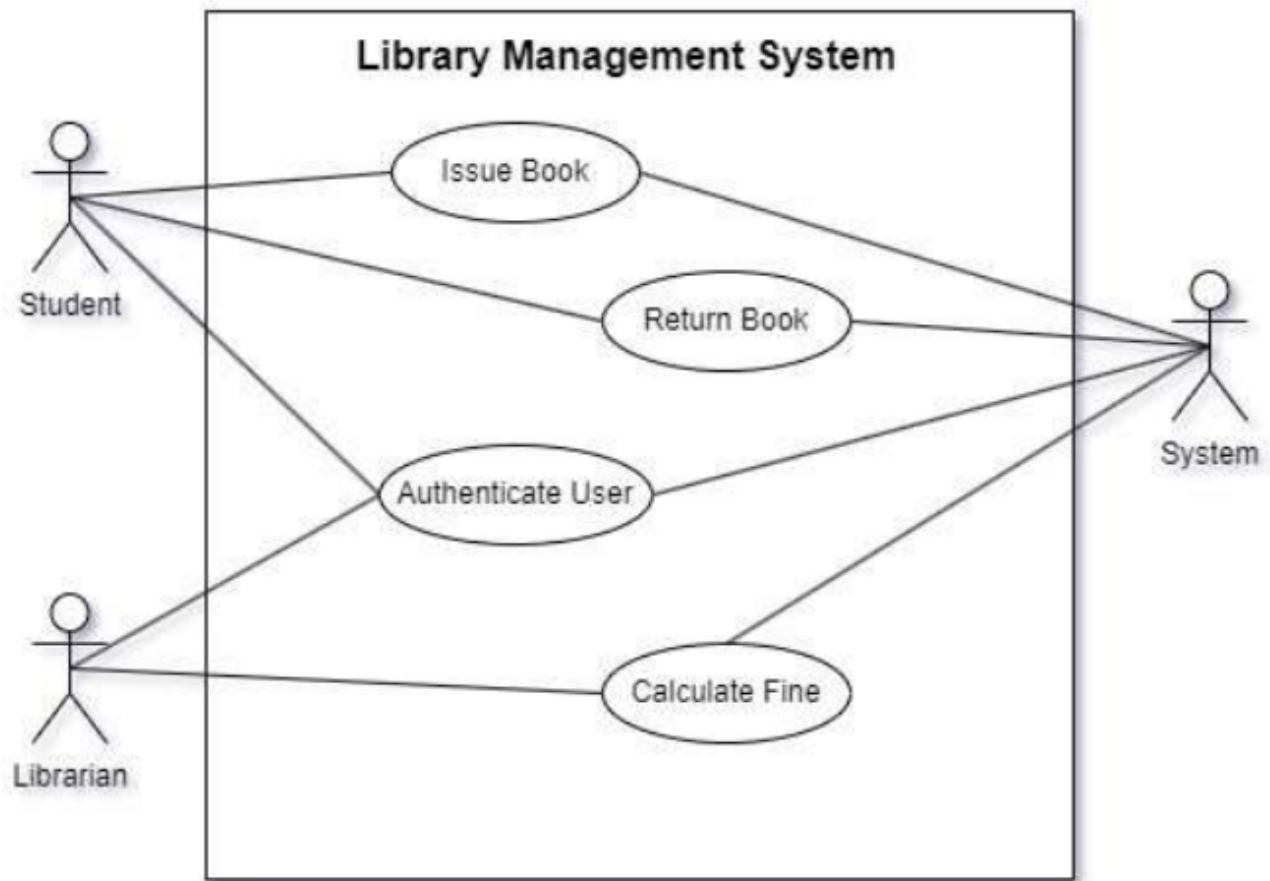
Main Flow:

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

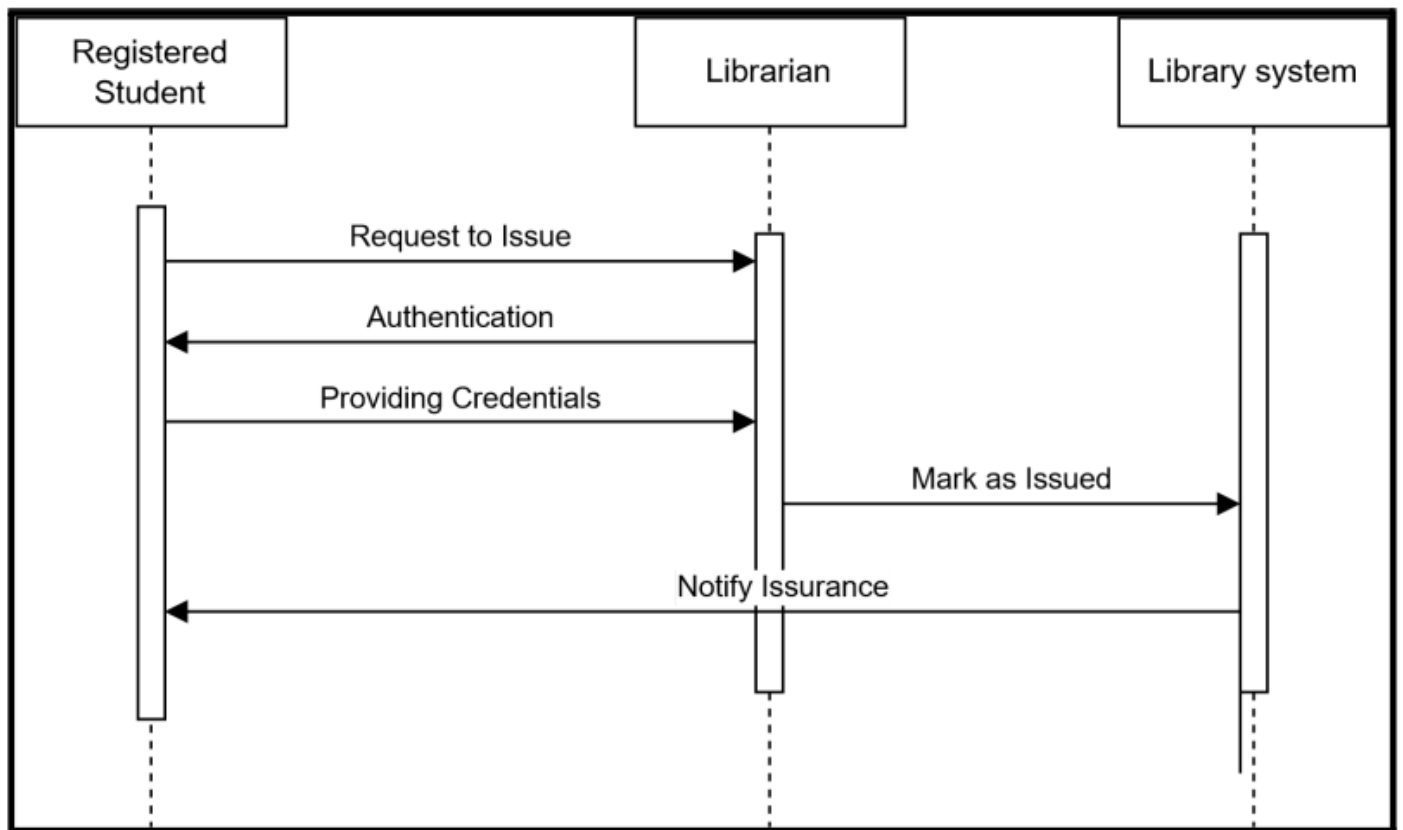
Alternate Flows:

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

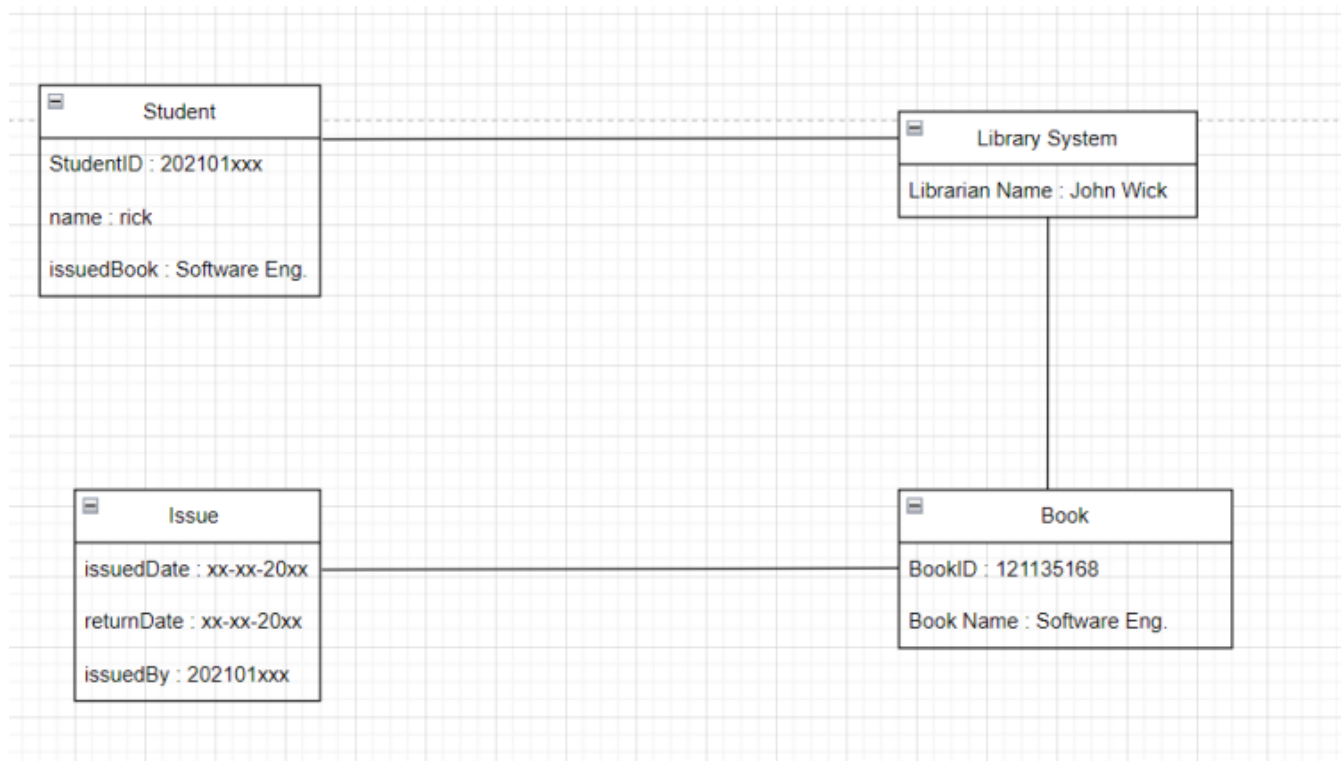
Use Case Diagram :



Sequence Diagram :



Object Diagram:



Q2) Sequence Diagram :

