

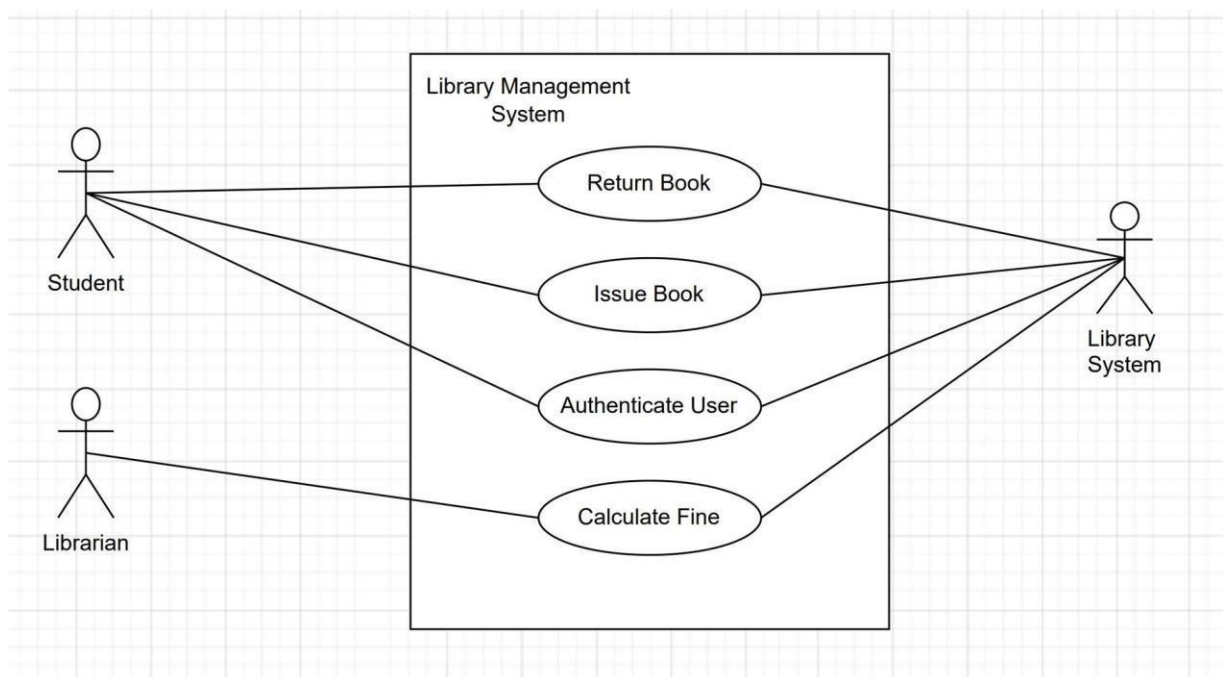
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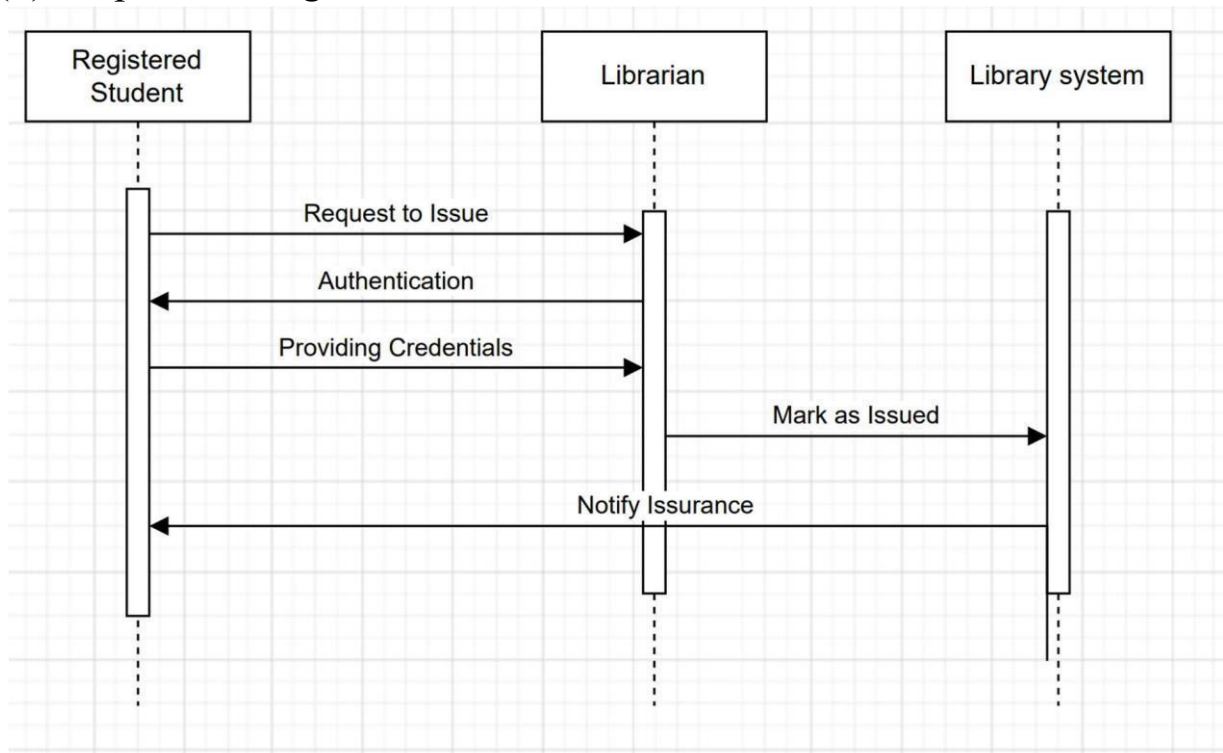
Group : 4

Lab : 7

Que 1 :- (1) Use Case Diagram



(2) Sequence Diagram



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.

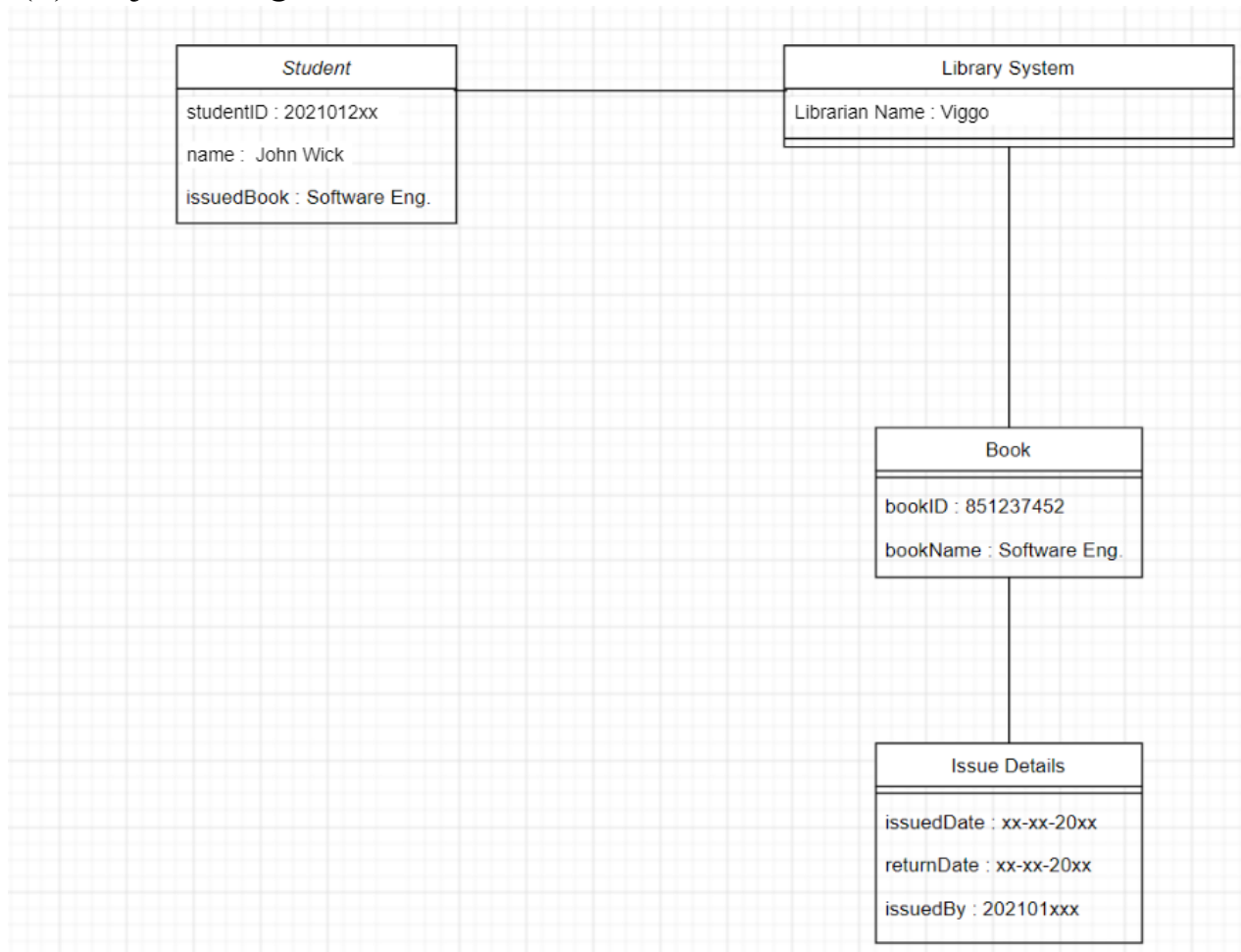
Main Flow:

- > 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.

(3) Object Diagram



Que 2:-

