

IT314 - Software Engineering

Lab No : 7

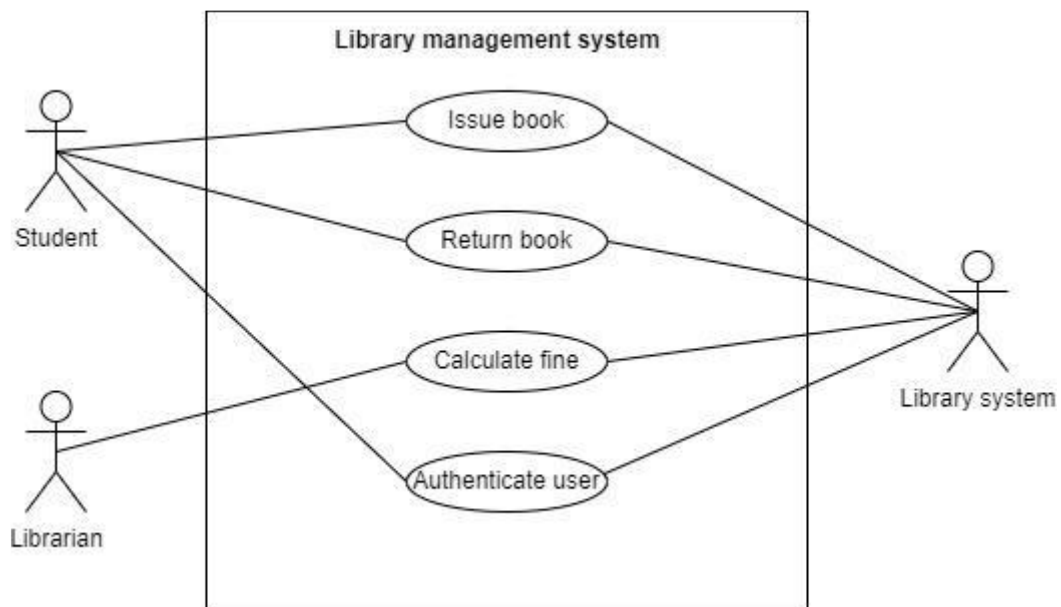
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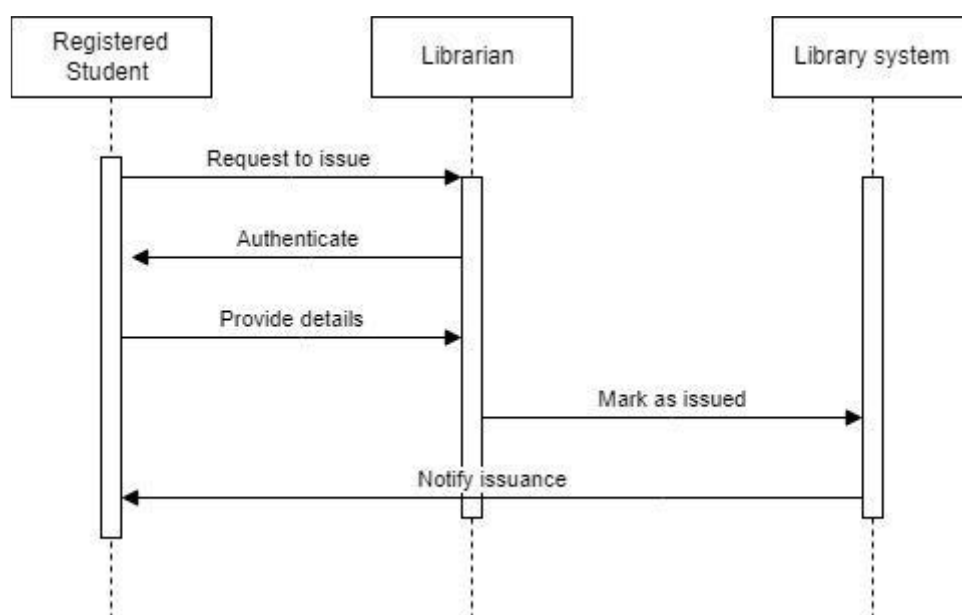
Lab Group : 3

Q1. Library management system Diagrams

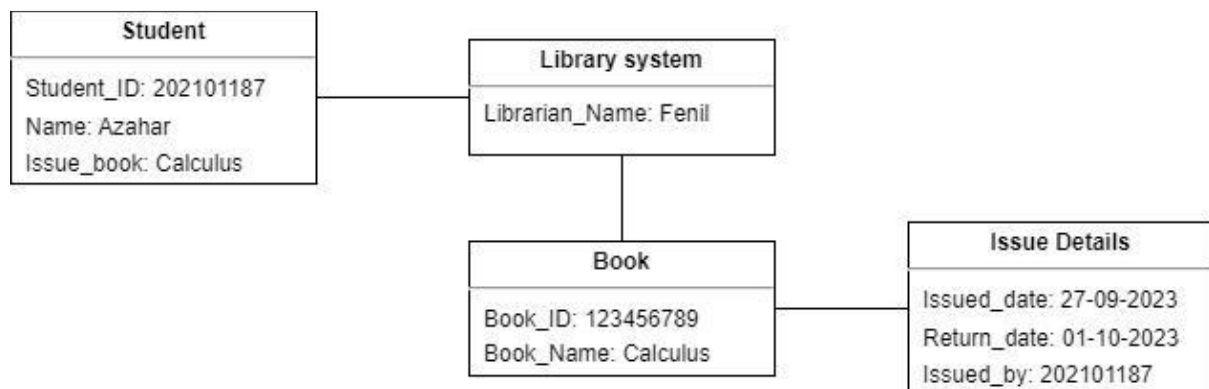
1. Use case Diagram



2. Sequence Diagram



3. Object Diagram



● Use Case Documentation for "issueBook" Use Case

Use Case Name: Issue Book

Description: This use case represents the process of a registered student issuing a book from the library

Primary Actor: Registered Student

Secondary Actor: Library and Librarian

Preconditions: The registered student must be logged in and authenticated by the librarian. The book being issued must be available in the library.

Postconditions: 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

Q2. Sequence Diagram For an Given Scenario

