Name : Smeet Agrawal
ID -202101237

1) Library Management System:

a) 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.
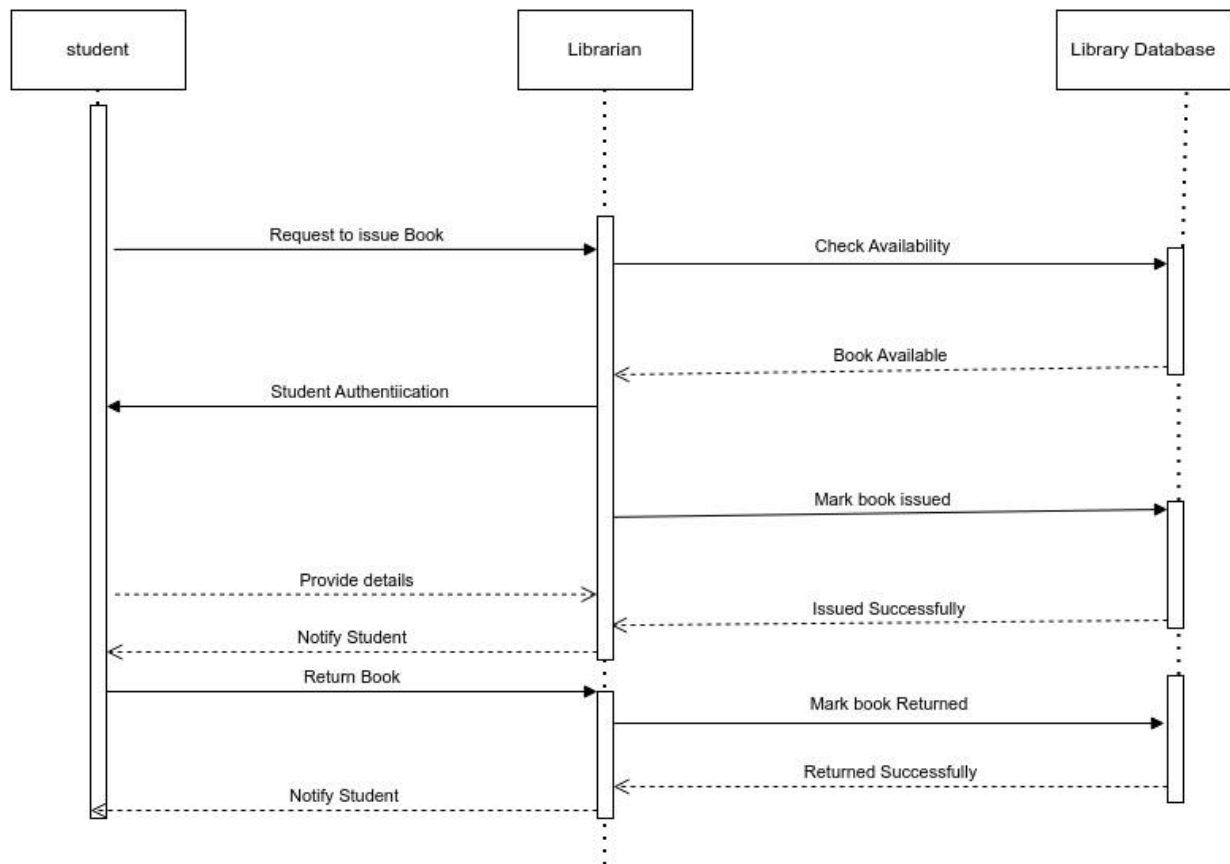
• The student is notified of the successful issuance.

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.

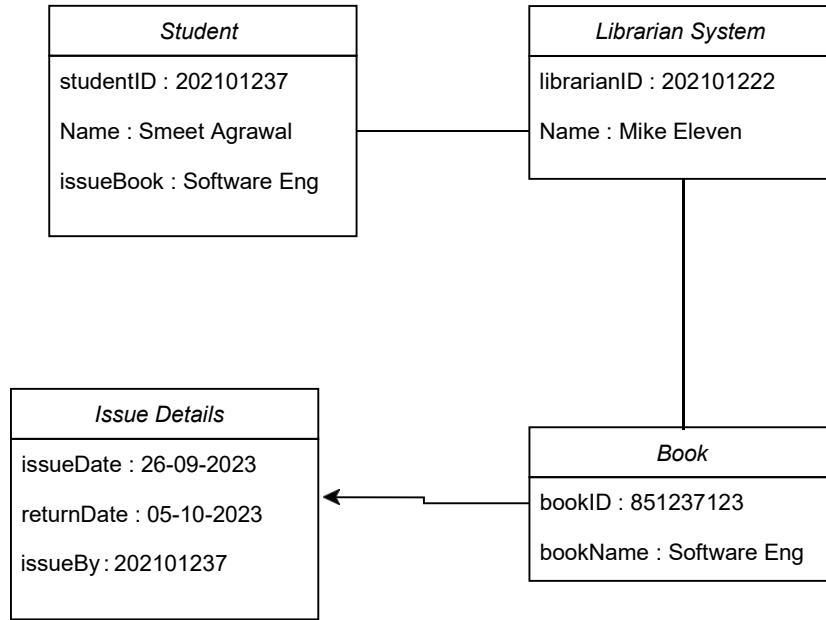• The system notifies the student and the librarian about the successful issuance.

Alternate 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

B) Sequence Diagram:

c) Object Diagram

Student
studentID : 202101237
Name : Smeet Agrawal
issueBook : Software Eng

Librarian System
librarianID : 202101222
Name : Mike Eleven

Issue Details
issueDate : 26-09-2023
returnDate : 05-10-2023
issueBy : 202101237

Book
bookID : 851237123
bookName : Software Eng

Question 2
Examination Management Process

:Instructor P   :Student P   :TA P   :Staff P

setExam(dt,material)

prepare(exam)

makeCopies(exam)

*handOut(exam)

writeAnswers(exam)

[Time Up?]

*handIn(exam)

*mark(paper,exam, solution)

*return(papers,marks)

*record(marks)

*inform(mark)