Software Engineering

Lab 7

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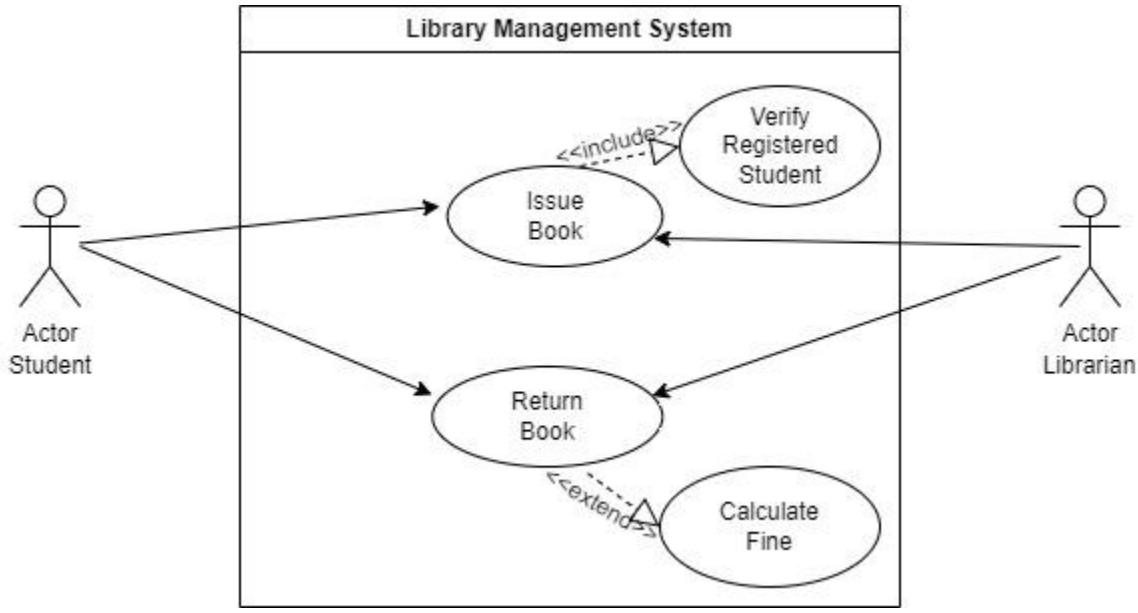
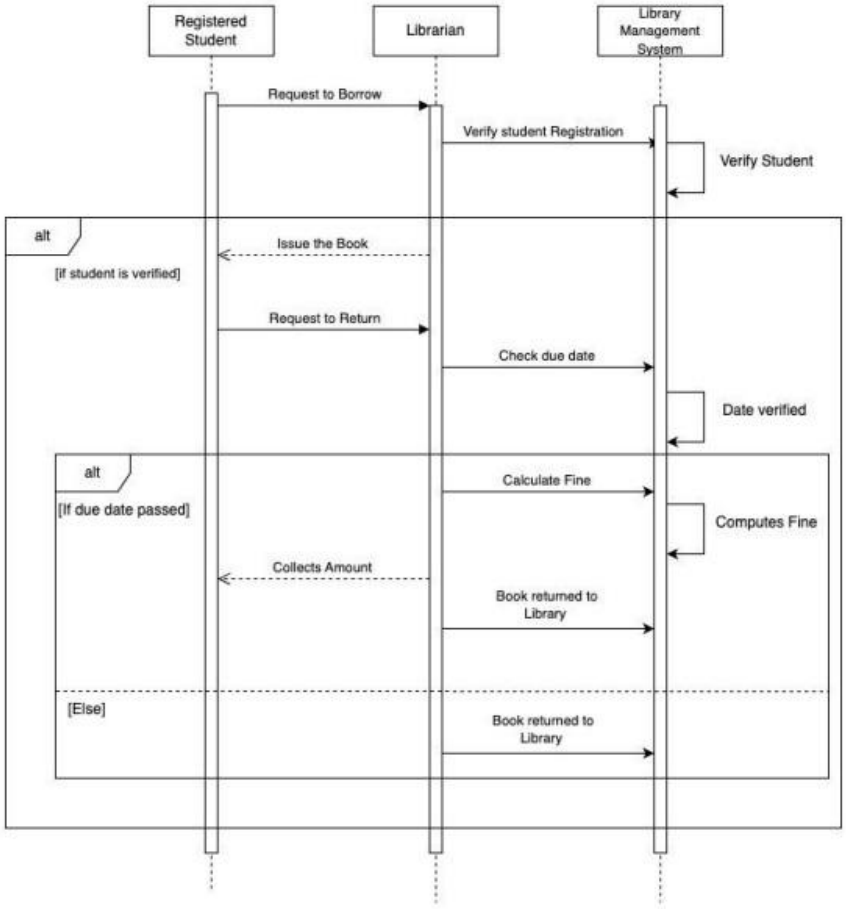
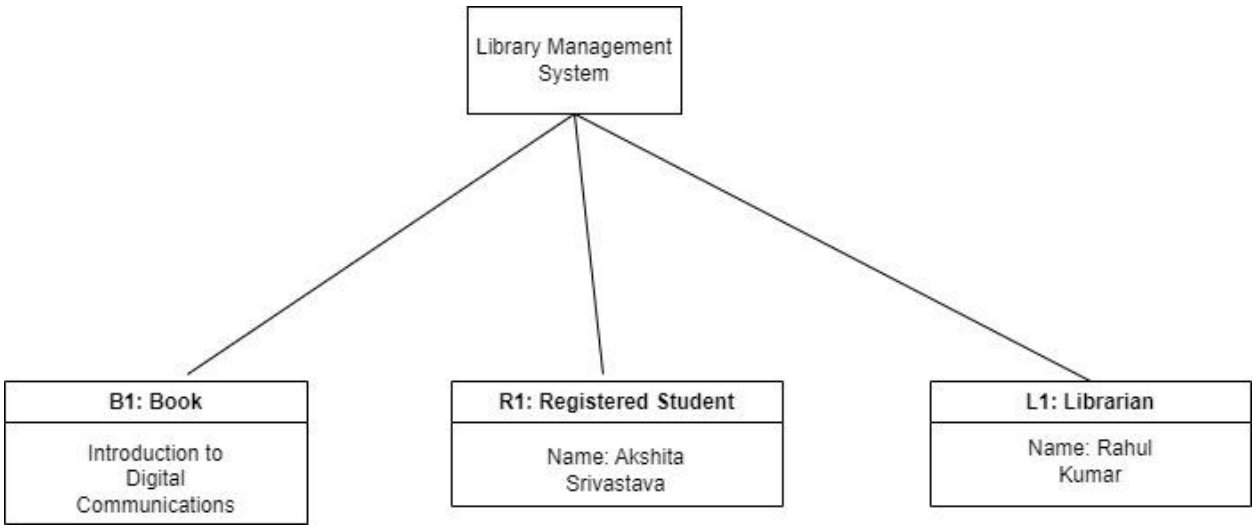
Q1.1) Complete the use case diagram for the above problem text along with use case documentation for “issueBook” use case.



Q1.2)The sequence diagram for the “issueBook” use case.



Q1.3) Draw the analysis object diagram for the “issueBook” use case analysis.



Q2) Draw a sequence diagram that represents this process. Make sure to show when is each actor participating in the process. Also, show the operation that is carried out during each interaction, and what its arguments are.

1) Notify of Exam (Instructor -> Students):
Operation: notifyExam(date, material)
Arguments: date: The date of the exam.
material: The material to be covered in the exam

2) Prepare Exam (Instructor):
Operation: prepareExam()

Arguments: None

3)Copy Exams (Instructor):
Operation: copyExams(copies)
Arguments: copies: The number of exam paper copies to be produced.

4)Conducts Exams (Instructor -> Students):
Operation: ConductExam(location, time)
Arguments:
location: The designated location for handing out the exam papers.
time: The designated time for handing out the exam papers

5) Write Answers (Students):
Operation: writeAnswers(answers)
Arguments: answers: The answers written by the students.
6)Hand In Papers (Students -> Instructor):
Operation: handInPapers()
Arguments: None

7) Give Marks(Teaching Assistants):
Operation: recordMarks(marks)
Arguments: marks: The marks assigned to each exam paper

8)Record Marks (Instructor -> Teaching Assistants):
Operation: recordMarks(marks)
Arguments: marks: The marks record for each student

9) Return Papers (Instructor -> Students):
Operation: returnPapers(papers)

Arguments: papers: The marked exam papers to be returned to the students