

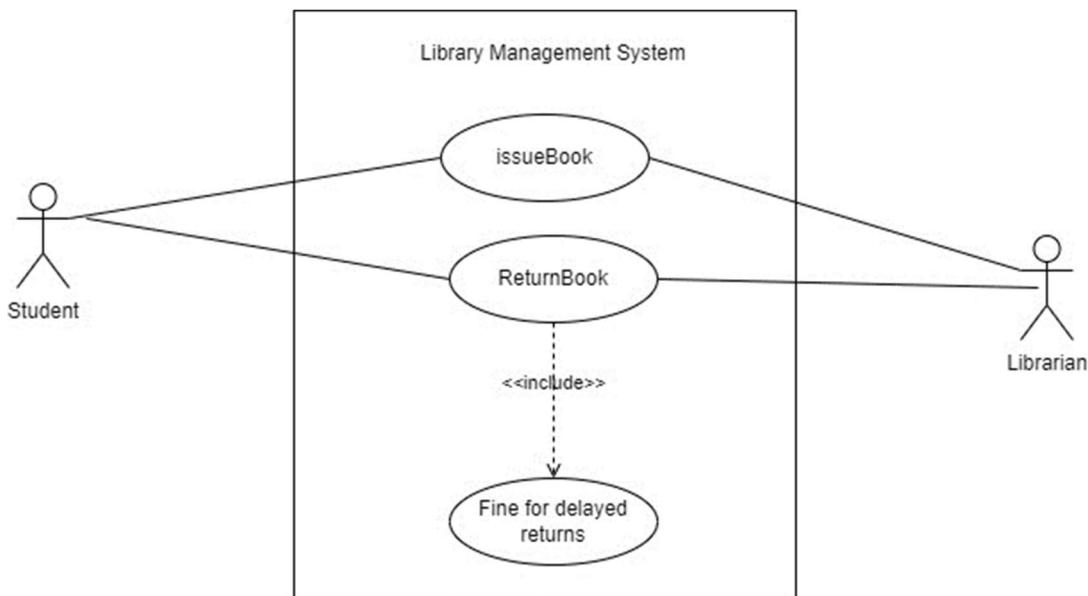
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Lab-7 Software Engineering

Q-1

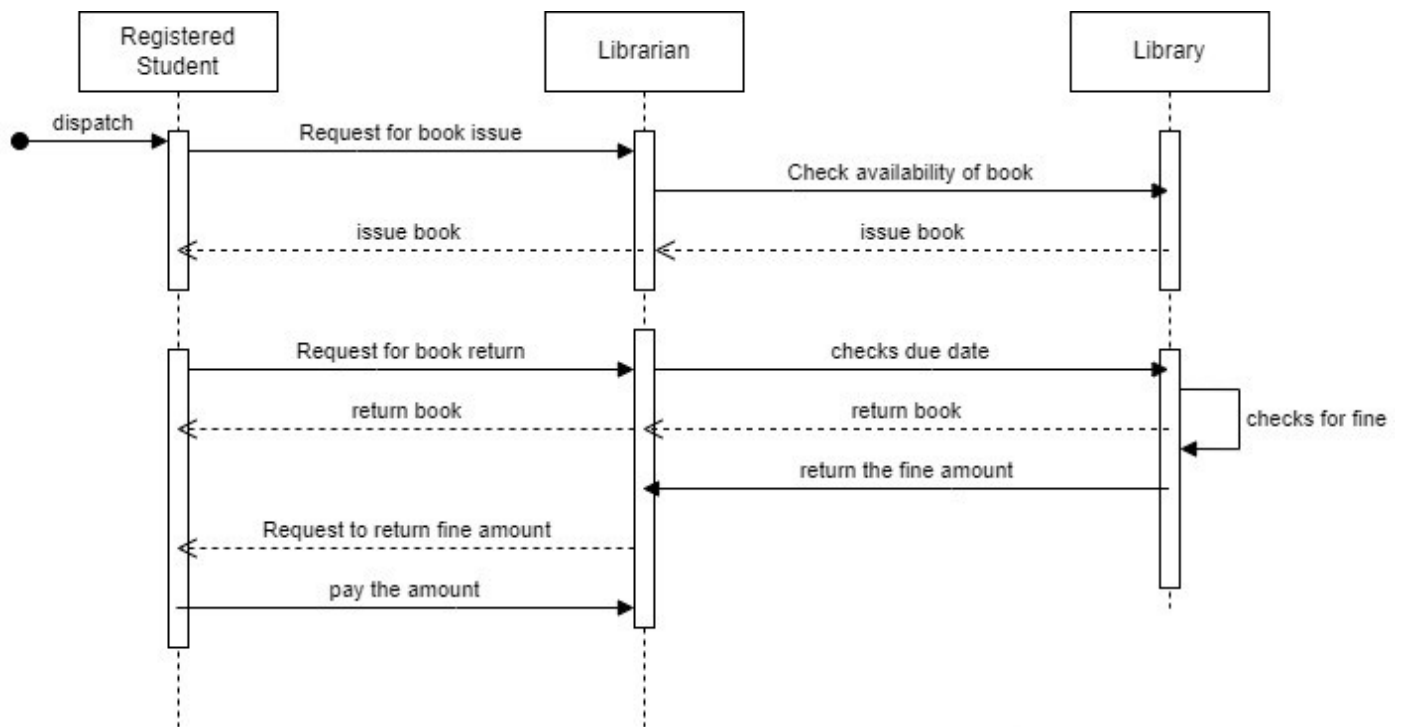
- Use Case Diagram



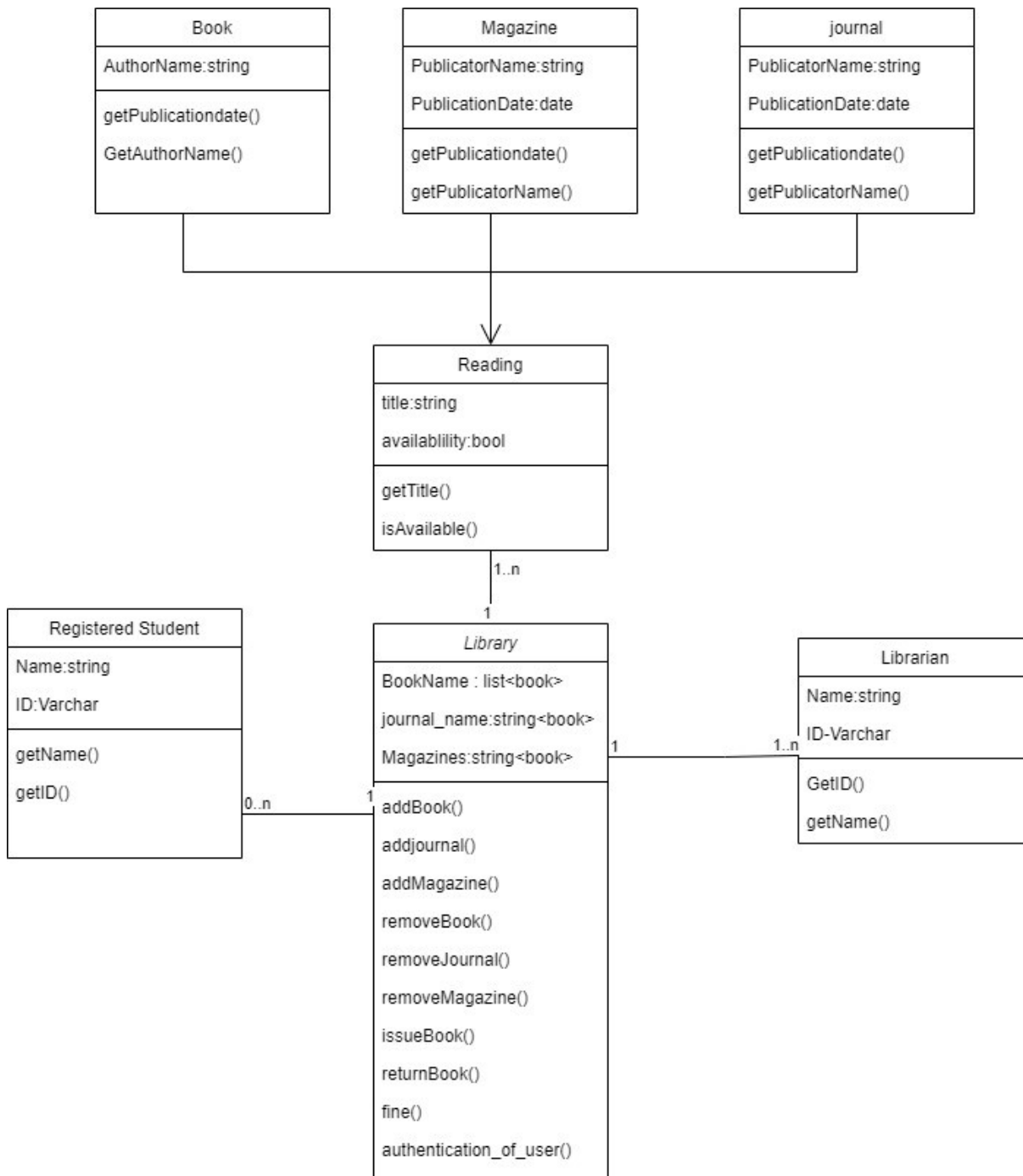
- Description: This system is used by students, faculty members and staff for issuing book. In this for students, they can issue available book, and they should return the book. If the return date of book is after the due date the students have to pay some fine for that.
- Actors: Student, Librarian, Library
- Preconditions: Student should have registered in the library.
- Trigger: student comes to library for issuing the book or returning a book.
- Postcondition: The entry of issued or returned book should be added to the database of library.
- Flow: the student will come to issue a book for reading, Librarian will check for the availability of book in the library. Then he will issue the book and records it in the library database. At the time of returning the book, the librarian will check the due date, if the student is already late in returning then he/she should pay the fine and if it is before due date student will return the book. Librarian will accept the fine and take the book return and update the database.

- Alternative Flows: If the book which student want to read is not available then librarian will notify this to the student.

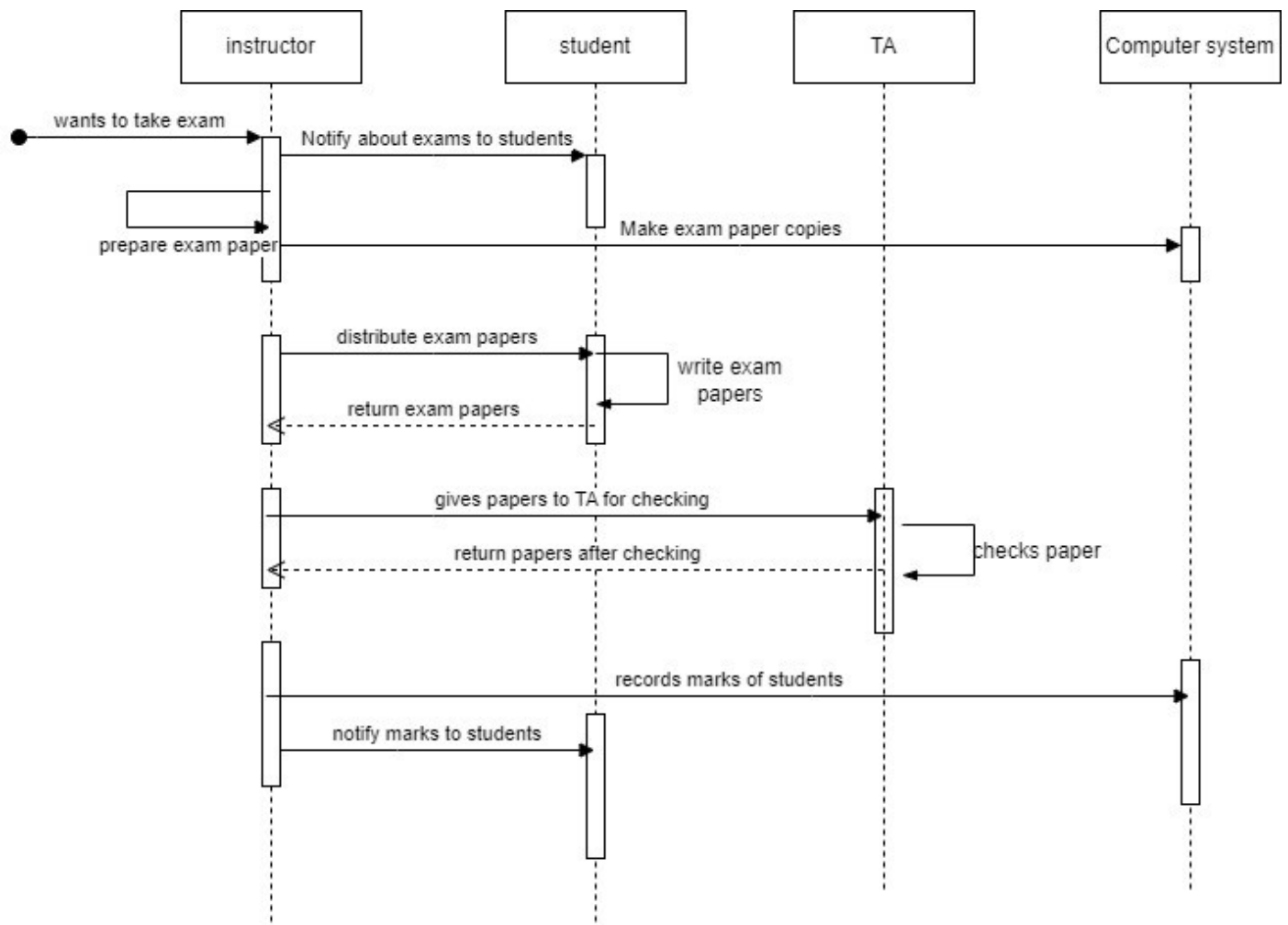
- Sequence Diagram



- Class diagram



Q-2 Sequence Diagram



- The instructor will notify the student about exam-It is a process. Then he will set the paper and give this copy to system for copying it, and then distribute them to students, students will write the exam and return the papers. Instructor will give this paper to TAs for checking it, TAs will return them and Instructor will enter the marks of papers into computer system. Then he will notify the students about their marks. And all these are function of exam papers.