

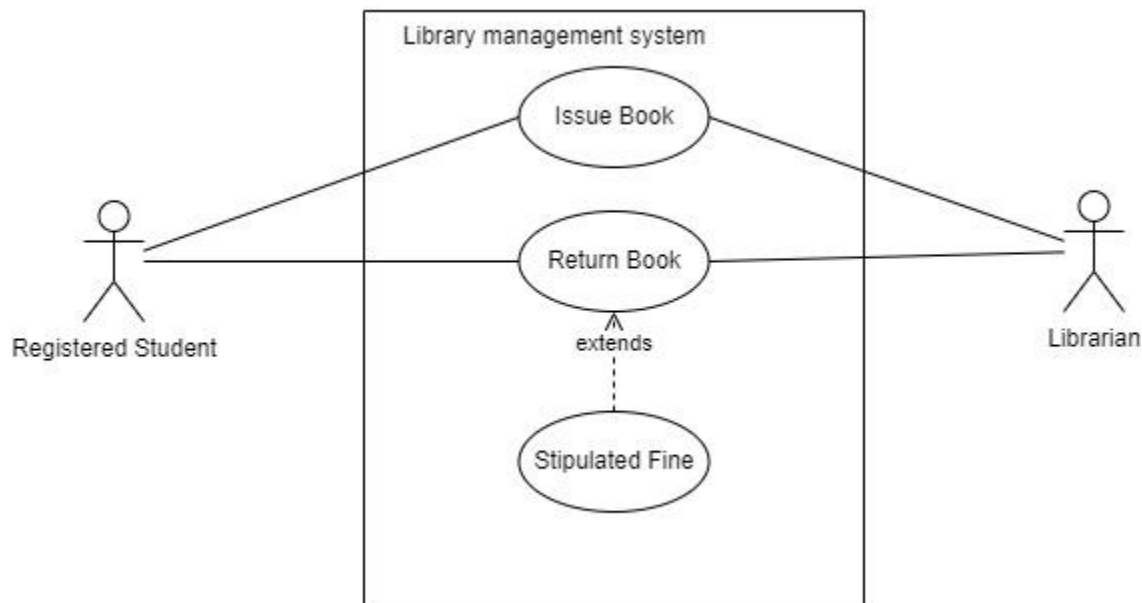
IT314 - LAB07

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Que:1

Problem description: A library maintains multiple reading materials which include books, journals, and magazines. The books are issued to the registered students of the institute, for a specified period of time. The issued books are to be returned back to the library. Delayed returns are subjected to stipulated fines. The issue-return process is administered by one of the librarians through an authenticated Library Management System.

Use Case Diagram:



Use case name: Library Management System

Actors: Registered Student, Librarian

Entry condition: When Registered student issues the book from the library.

Trigger: student comes to library for issuing the book or returning a book.

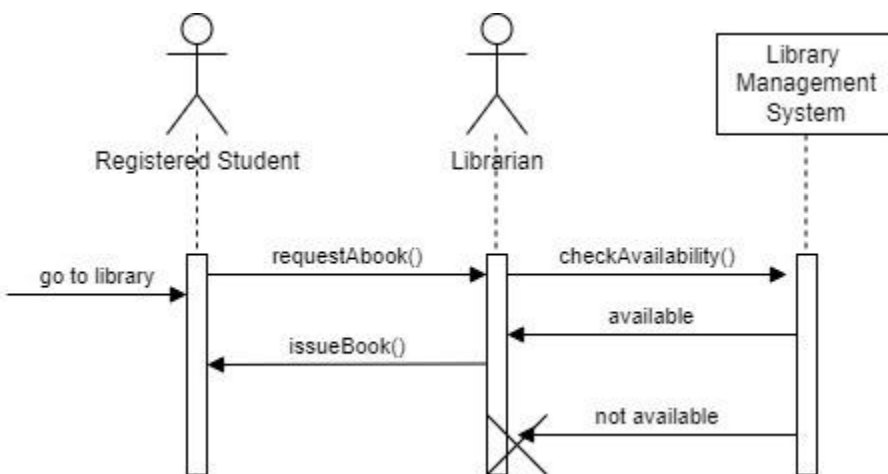
Flow of event: the student will come to issue a book for reading, Librarian will check for the availability of books in the library. Then he will issue the book and record it in the library

Database. At the time of returning the book, the student will return the book, librarian will check the due date, if the student is already late in returning then he/she should pay the fine. Librarian will accept the fine and take the book back and update the database.

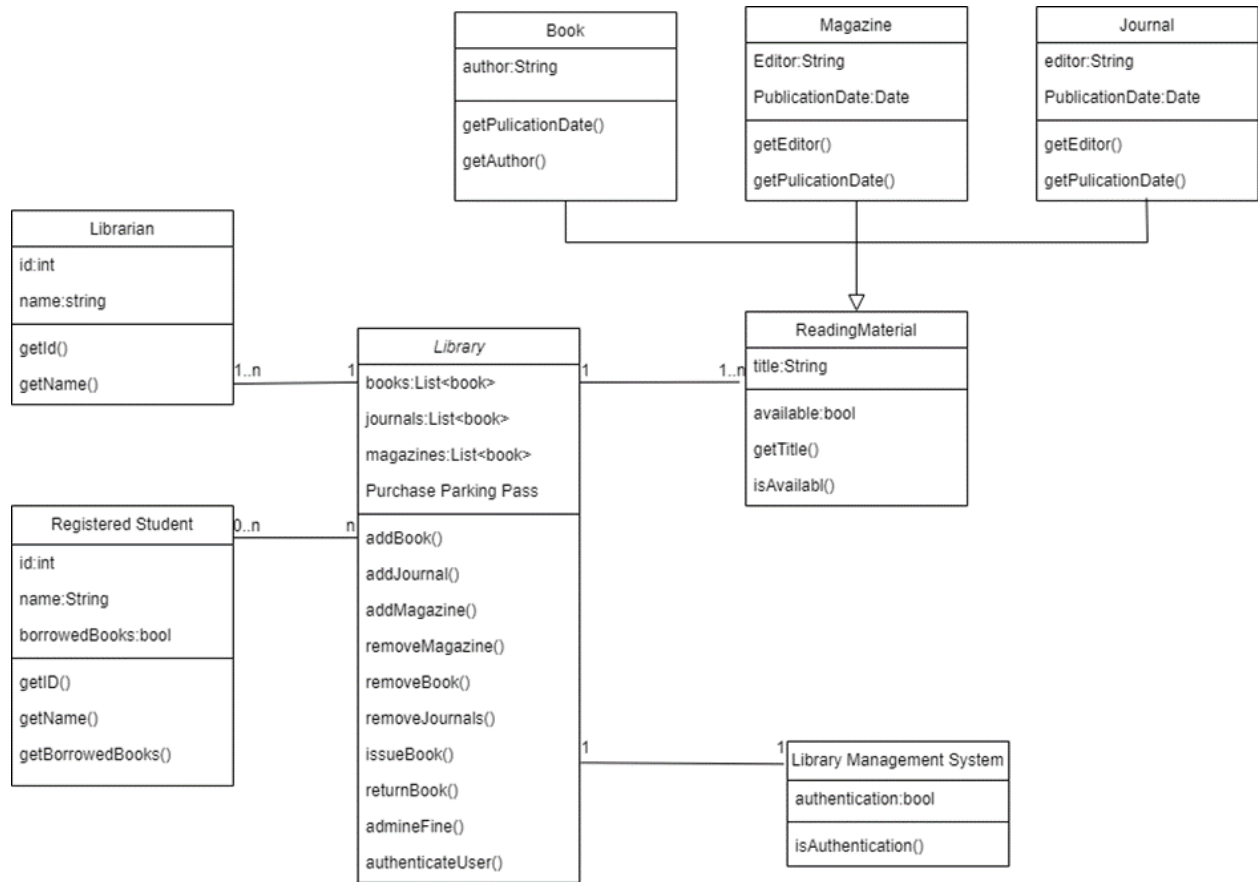
Alternative Flows: If the book which student want to read is not available then librarian will notify this to the student.

Exit condition: When the registered student returns the book successfully.

Sequence Diagram:



Object Diagram:



Que:2

Sequence Diagram:

