

## IT-313: Software Engineering

### Lab 7: Domain Analysis Modeling & Sequence Diagram

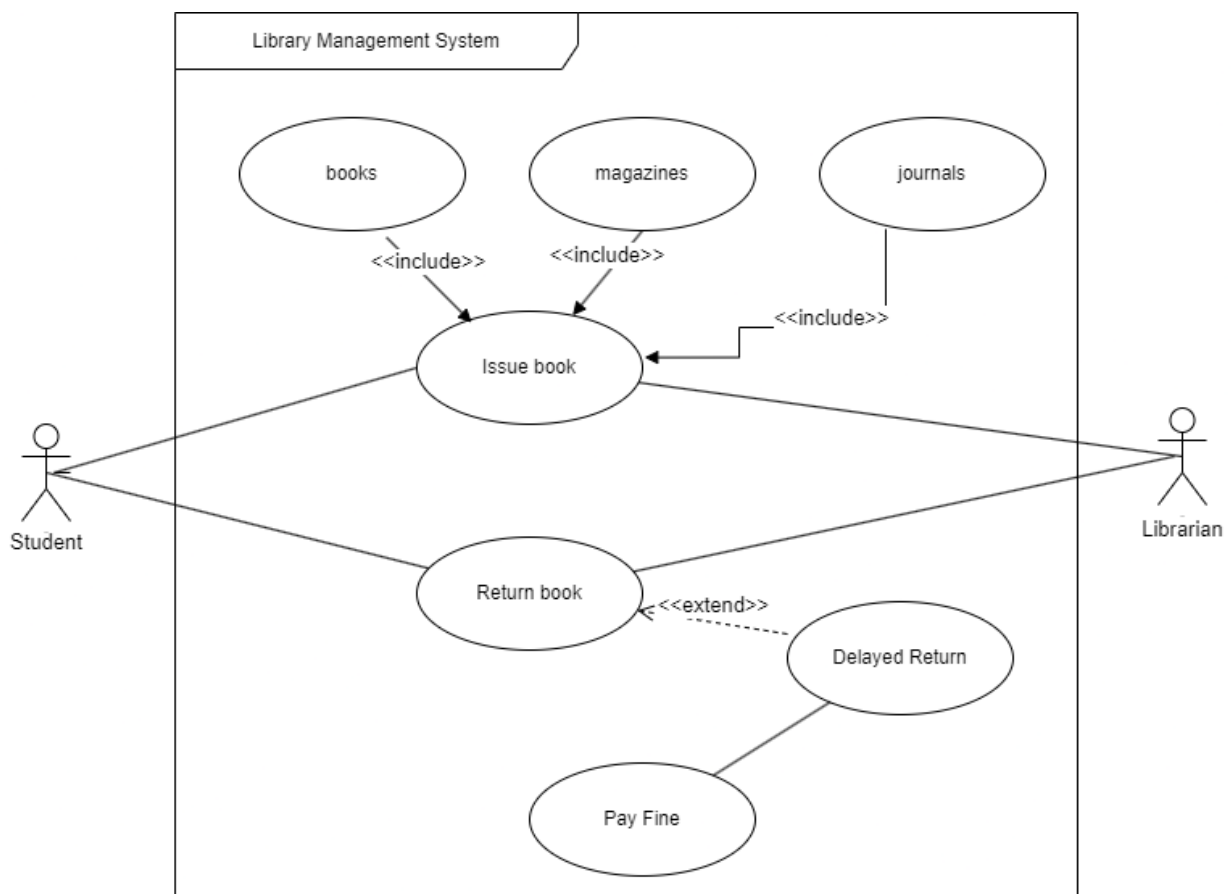
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#### Que-1

1. Complete the use case diagram for the given text along with use case documentation for “issueBook” use case.



**Documentation:**

**Use case name:** Issue book

**Summary:** Student issues book from library.

**Primary Actor:** Librarian/Library

**Secondary Actor:** Student

**Precondition:**

- The librarian is logged into the authenticated Library Management System.
- The student is registered in the system.

**Description:**

- Librarian selects "Issue Book" from the Library Management System.
- System prompts librarian to enter the student's ID or search for the student.
- Librarian enters the student's ID or searches for the student.
- System displays student information.
- Librarian selects the book to be issued from the available books.
- System marks the book as "issued" and assigns a due date for return.
- Librarian confirms the issue.

**Alternatives:**

- If the system cannot find the student, it prompts the librarian to re-enter the student's information.
- If the selected book is not available, the system informs the librarian and prompts for an alternative book selection.
- If the student has reached their maximum allowable book limit, the system informs the student that they cannot issue more books until they return some, and the use case ends.

**Post Conditions:**

- The book is marked as issued to the student.
- The system updates its records to reflect the issued book.