

Lab Session-7
Domain Analysis Modeling & Sequence Diagram
IT313: Software Engineering

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Use Case Documentation for "issueBook" Use Case:

Use Case Name: Issue Book

Description: This use case illustrates how a student who is registered issues a book from the library.

Primary Actor: Registered Student

Secondary Actor: Library and Librarian

Preconditions:

The librarian must log in and authenticate the registered student.
The library must have the book that is being issued.

Postconditions:

The book has the marked for and Issued to Student.
The book return deadline has been established.
The successful issuance is announced to the student.

Main Flow:

The registered student asks for a book to be issued.
The student's authentication status is verified by the system.
If the requested book is available, the system verifies this.
The system records the book as having been issued to the student if it is available.
The system determines the due date for book returns.
The system alerts the librarian and the student that the issuance was successful.

Alternative Flows:

The system alerts the student that the book cannot be issued at this time if it is not available.
The system alerts the librarian if the user is not authenticated.