

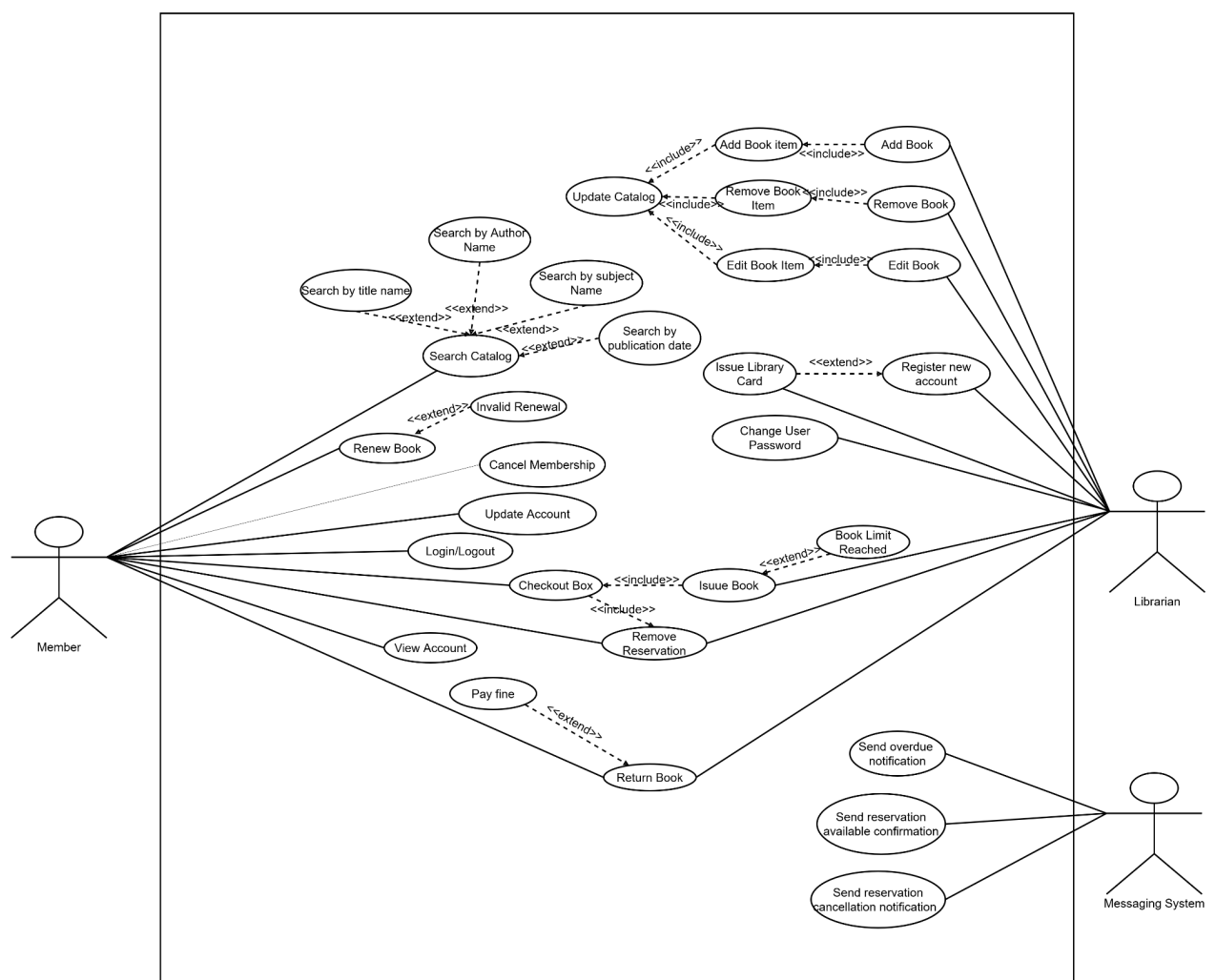
Lab 08

Question 1

1a) Use case Diagram

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1b) Use case Documentation for “issueBook” use case

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Goal: issue a book

Preconditions:

- User has to login with appropriate login credentials, book should be available to issue

Primary Actor: Student

Stakeholders: Student, Librarian

Basic Flow:

- Student login into the system with appropriate credentials
- Student search for the book by title or author name
- System checks if the book is available or not
- If books is available user will request an issue
- System checks if user has any other books already issued
- The librarian will check and accept requests and process it
- Once the books is issued successfully the due date and amount of fine if delayed is shown
- System changes the book status to issued.

Alternate Flow:

- Login failed due to inappropriate login credentials
- Book is not available
- System finds that student has already issued a book before
- Librarian denies issue due to other reasons

Success End Condition:

- The book is issued successfully for specific time and book status changed to issued

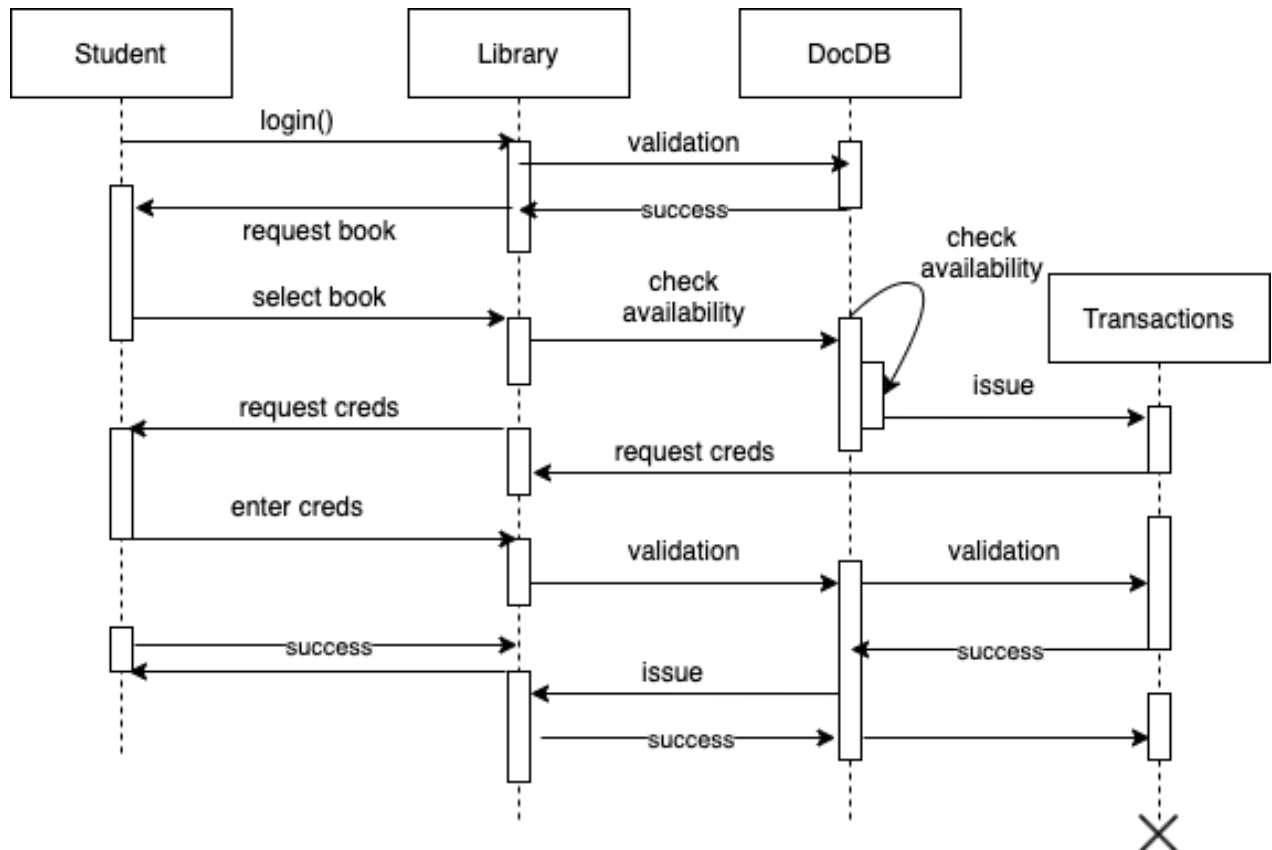
Failure End Condition:

- Student is not able to issue the book due to several reasons

2) Sequence Diagram for the "IssueBook" case

Contributors:

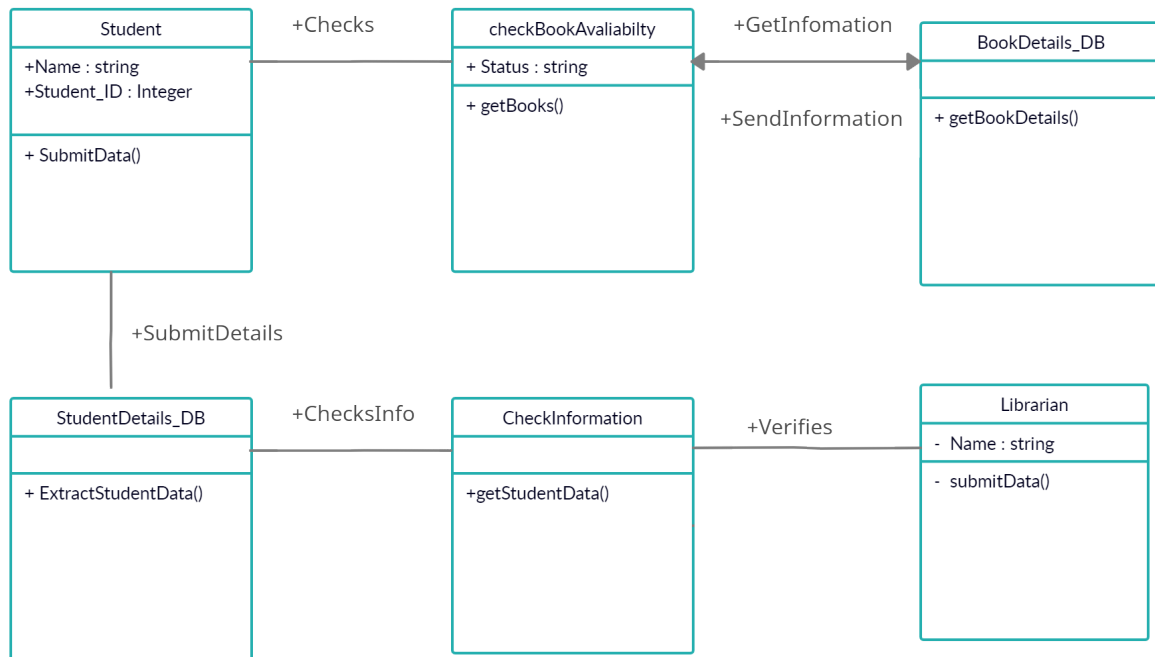
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3) Draw the analysis object diagram for the “issueBook” use case analysis.

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Question 2

Sequence diagram

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