

IT-314

Software Engineering

Lab 8 : Lab Session - SEN

Domain Analysis Modeling & Sequence Diagram

Project - Online Faculty Staff Directory for Multi University



~ By Group 17

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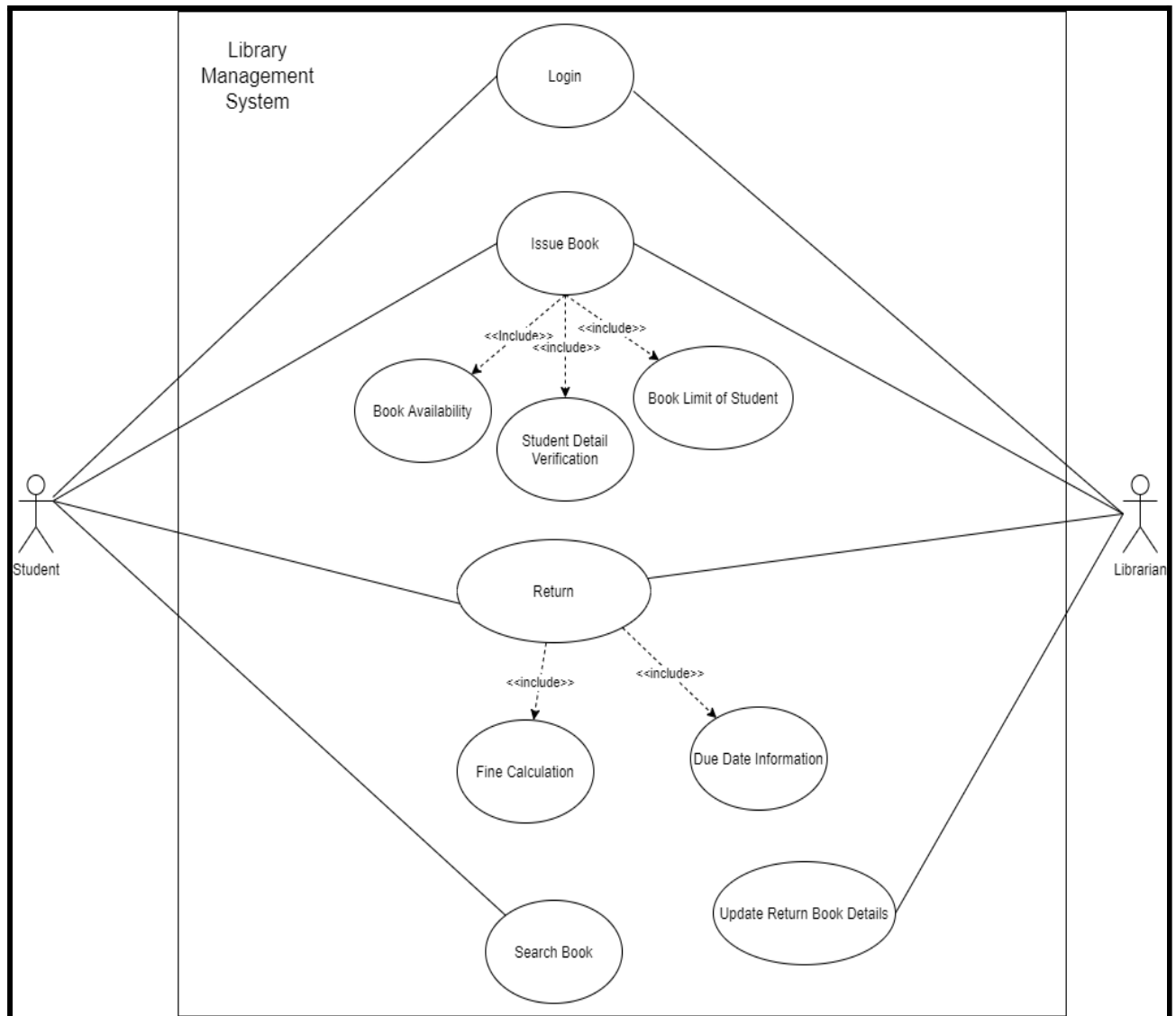
Q1. "A library maintains multiple reading materials which include books, journals, and magazines. The books are issued to the registered students of the institute, for a specified period of time. The issued books are to be returned back to the library. Delayed returns are subjected to stipulated fines. The issue-return process is administered by one of the librarians through an authenticated Library Management System."

1. Complete the use case diagram for the above problem text along with use case documentation for "issueBook" use case.

⇒ Textual description of **Issue Book**

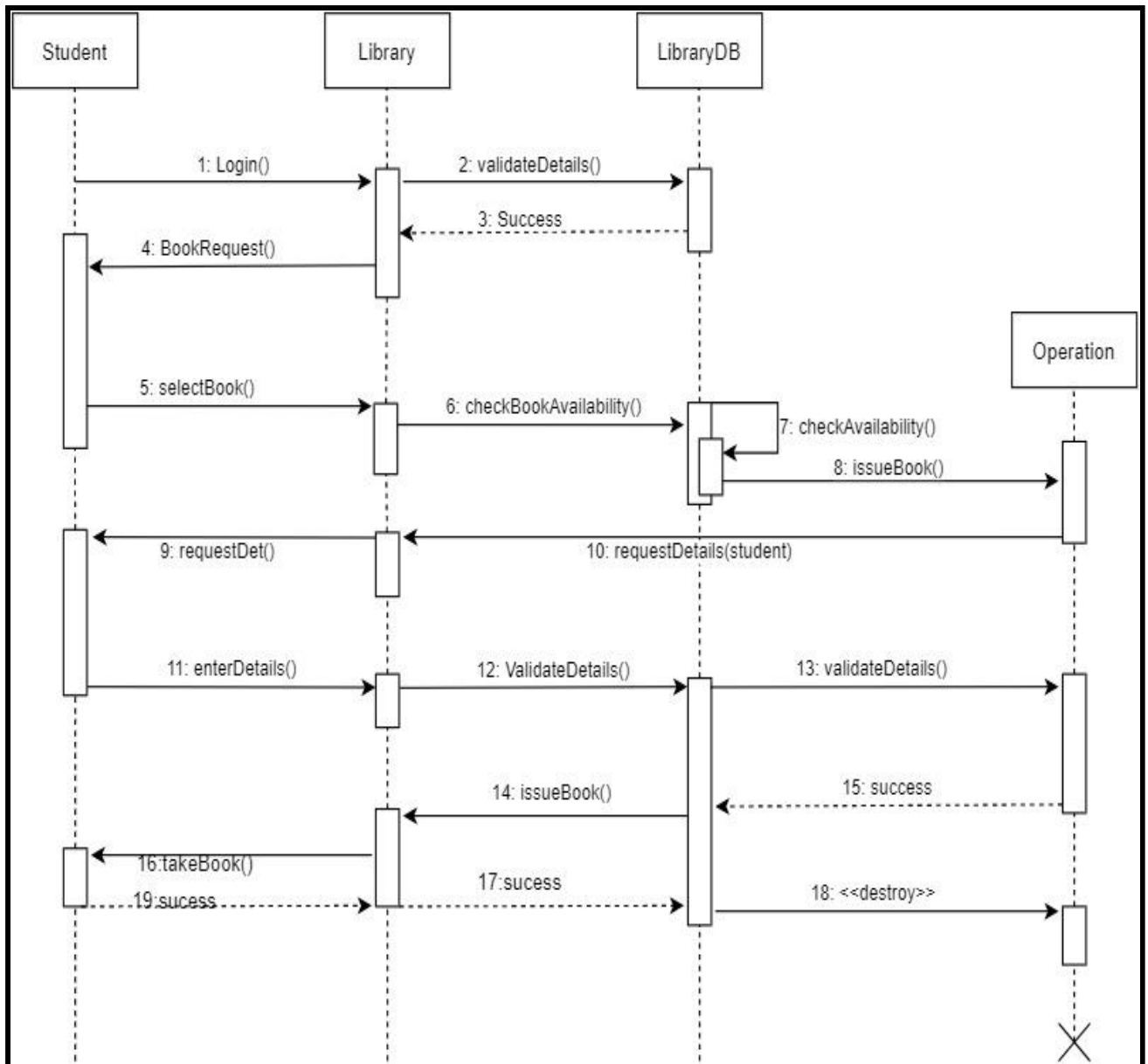
Actors : Students, Librarians

1. Students want to Issue books.
 - They must Login into system
 - They are allowed Search for books
 - They also can view how many books are available and if not then due date when those books might be available.
2. Librarians are included in the process of issuing books.
 - They will issue the books if they are available
 - They will also give due dates for borrowing books
 - They need to check that anyone borrowing books must be from their institute.
 - They also need to check that students must borrow a limited amount of books.



2) The sequence diagram for the “issueBook” use case.

(Hint: Here you need to identify various analysis objects (corresponding to entity, boundary, and control classes), and show their interaction to realize the “issueBook” use case.)



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

