

IT314: Software Engineering

Lab Session VIII – Domain Analysis Modeling & Sequence Diagram

Group-30

Group Members:

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Q.1.1: Complete the use case diagram for the above problem text along with the use case documentation for “issueBook” use case.

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A) Use Case Diagram:



B) Textual description of “issueBook”:

Actors: Librarian, Student

- a) The student** wants to issue the book.
 - i) Log in to the system
 - ii) Search for the book
 - iii) Visit the librarian
- b) The Librarian** will process the book Issue.
 - i) Mark the due date in the book
 - ii) Issue the book
 - iii) Check if the student is valid or not
 - iv) Also, check if the student hasn't reached the maximum count of books allowed to issue.

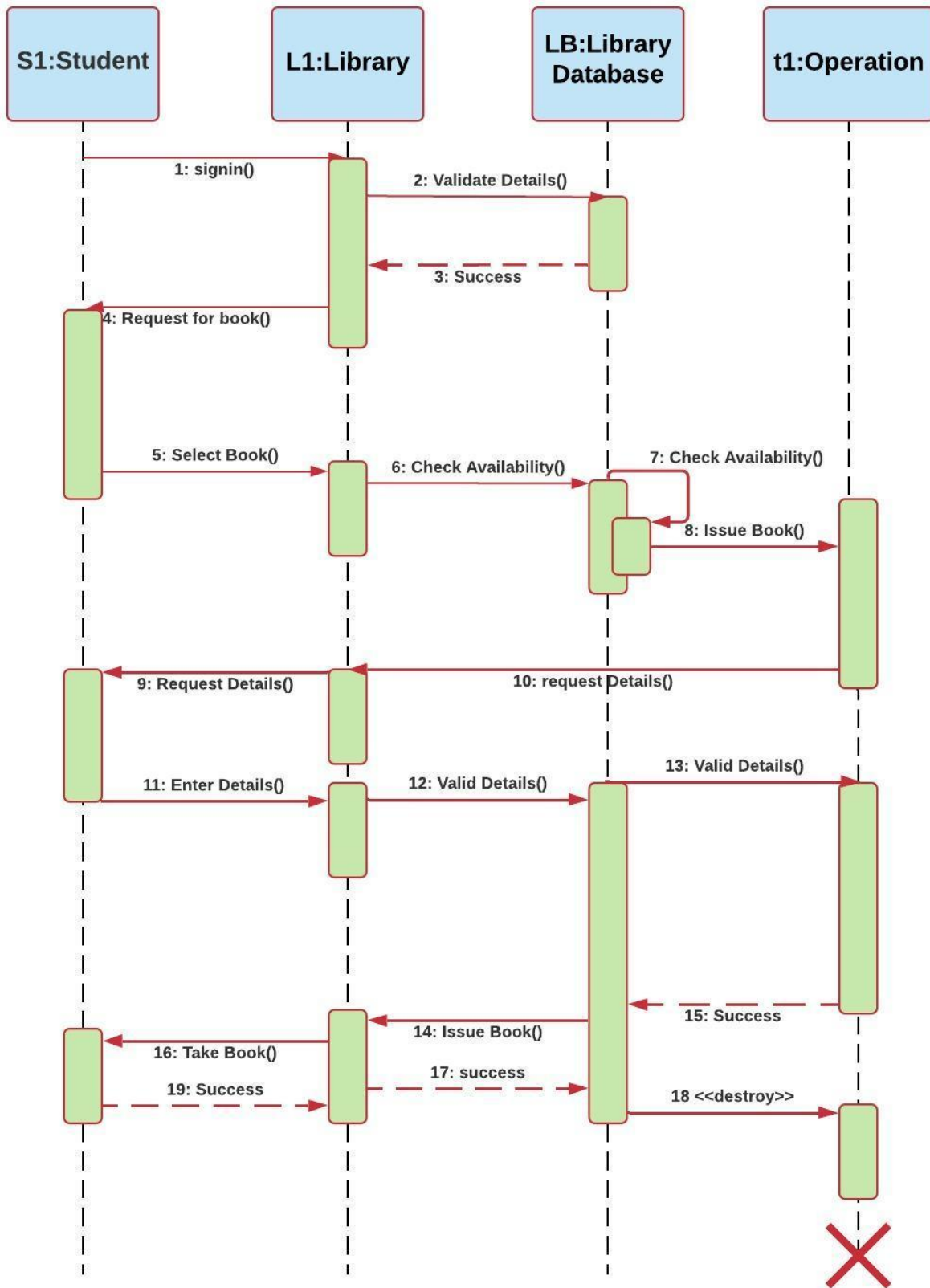
Q.1.2: The sequence diagram for the “issueBook” use case. (Hint: Here you need to identify various analysis objects (corresponding to entity, boundary, and control classes), and show their interaction to realize the “issueBook” use case.)

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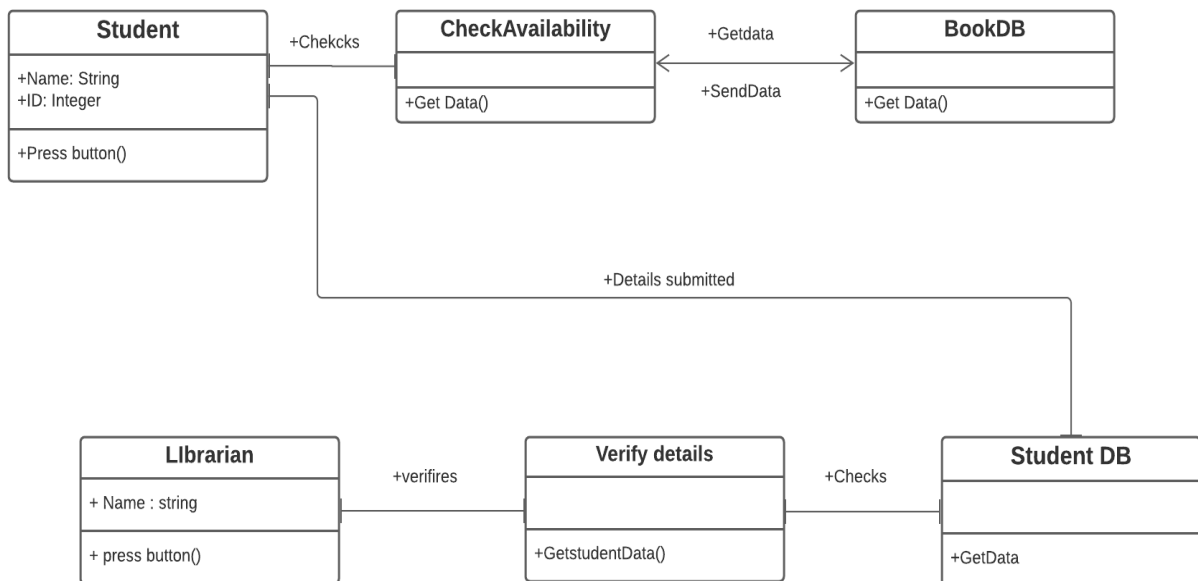


Q.1.3: Draw the analysis object diagram for the “issue book” use case analysis.

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Q.2: Draw a sequence diagram that represents this process. Make sure to show when each actor is participating in the process. Also, show the operation that is carried out during each interaction, and what its arguments are.

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