IT 314 Software Engineering Lab - 7 Domain Analysis Modeling & Sequence Diagram

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Q.1. Consider the following piece of text

- Use Case Name: Issuing a Book
- Description: This use case process by which a registered student issues a book from the library.
- Primary Actor: Student
- Secondary Actors: Librarian and Library System
- Preconditions: The registered student must log in and be verified by the librarian.
- Postconditions: The book is marked as issued to the student.
- Main Flow:

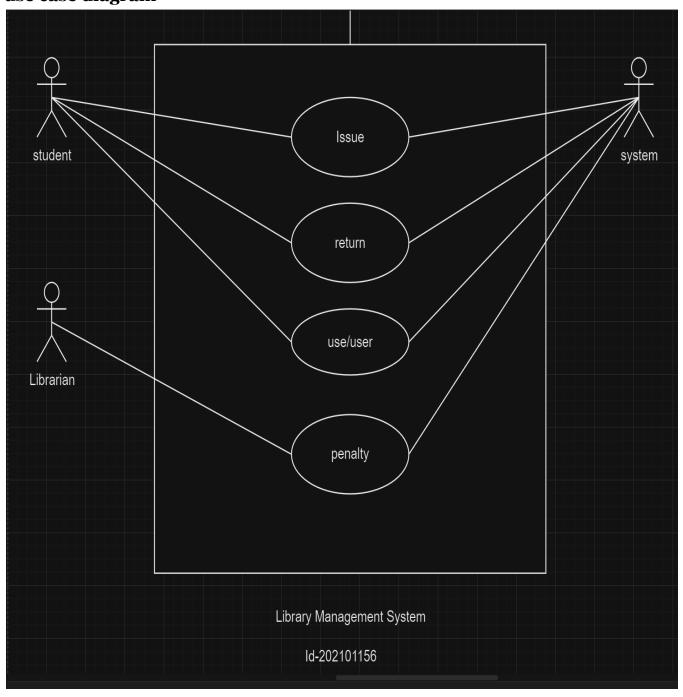
The system checks the student's identity status once the registered user requests a book be issued.

- The system verifies if the requested book is still in stock.
- The system establishes a deadline for returning the book.
- To verify the successful issue, notifications are sent to both the student and the librarian.
- Alternate Flows:

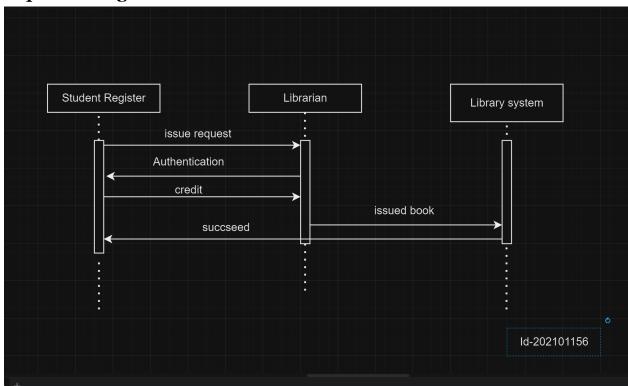
The system reminds the student that the requested book cannot be issued at this time if it is not available.

• If the user's registration is unsuccessful, the system alerts the librarian to the error.

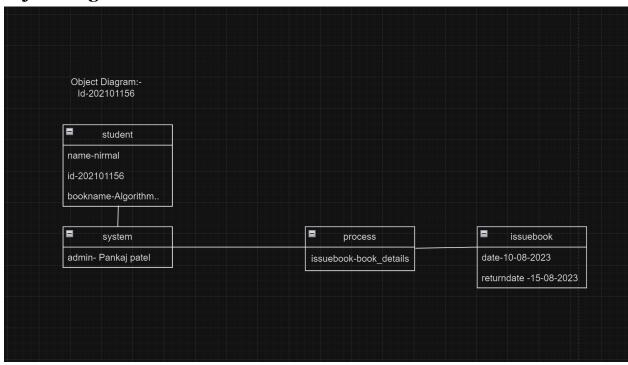
use case diagram



sequence diagram



object diagram



Q.2. To give an exam, an instructor first notifies the students of the exam date and the material to be covered. She then prepares the exam paper....

