

## **Use Case Documentation**

*Use case name : Issue Book*

*Description : Represents the process*

*Issuing book Primary Actors :*

*Registered Students*

*Secondary Actors : Library, Librarian*

### **Pre-conditions:**

- *Registered student must be logged in and authenticated by the librarian.*
- *The book being issued must be available in*

*the library. Post-conditions:*

- *The book is marked as issued to the student.*
- *The due date for returning the book is set.*
- *The student is notified of the successful issuance.*

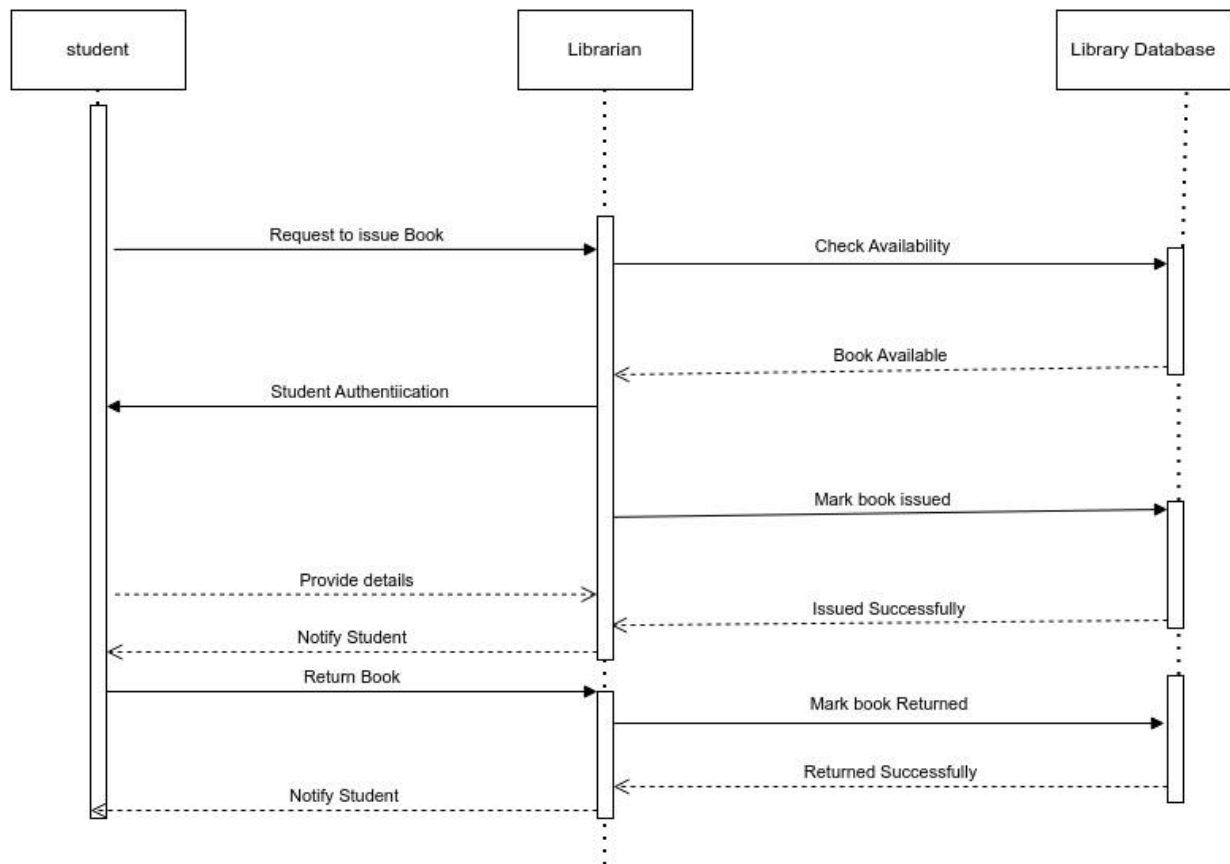
### **Main flow:**

- *The registered student requests to issue a book.*
- *The system validates the student's authentication status.*
- *The system checks if the requested book is available.*
- *If the book is available, the system marks it as issued to the student.*
- *The system sets the due date for returning the book.*
- *The system notifies the student and the librarian about the successful issuance.*

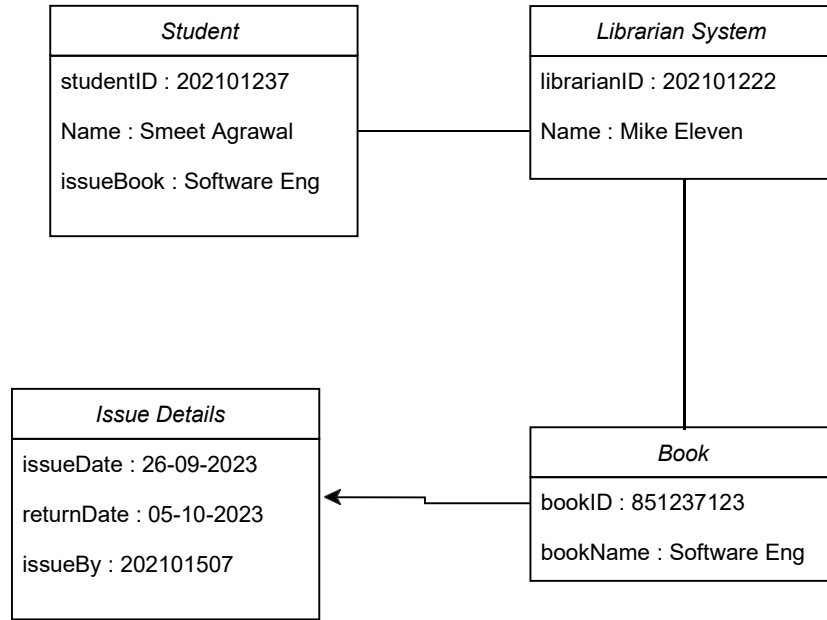
### **Alternate Flows:**

- *If the book is not available, the system notifies the student that the book cannot be issued at the moment.*
- *If the user is not authenticated, the system notifies the librarian*

## B ) Sequence Diagram:



### c) Class Diagram



## Question 2

### Examination Management Process

