Use Case Documentation for issueBook()

- 1. Students (Users) will log in to the LMS system via their credentials (UserID, Password).
 - a. Each user has a unique UserID which the system uses to identify the person.
 - b. If they have not registered yet, they can create their account. After verification, their account is activated.
- 2. Once verified, they head over to select the book they wish to issue. They can either do this by searching for the book or directly visit the book.
 - a. This request is issueBook(UserID, BookID)
- 3. Once this request is received,
 - a. The system checks the status of the book Is it available? Is it under some form of processing?
 - b. If the book can be issued, the request is relayed to the librarian in-charge.
- 4. Librarian will then check the request and process it.
- 5. If issued, status updates are done as follows:
 - a. Book status is updated to 'Issued' from 'Available'.
 - b. The available quantity of the book is reduced by one (this is helpful, especially in case there are multiple copies of the same book).
- 6. Transaction updates are done in the following way:
 - a. The issued book is attached to the UserID as an issuer.
 - b. The transaction details like timestamp, UserID, BookID, transaction status, etc. are shared with the librarian for book-keeping purposes.
- 7. Success! If everything goes well, the student can take the book with them. A record of this issuance is maintained in the database.