

**ID : 202101021**

## **Use Case Documentation for "Issue Book" Use Case:**

**Use Case Name:** Issue Book

**Description:** This use case outlines the process in which a registered student borrows a book from the library.

**Primary Actor:** Registered Student

**Secondary Actors:** Library System, Librarian

### **Preconditions:**

1. The registered student must have an active login session.
2. The librarian must authenticate the student.
3. The requested book must be available in the library.

### **Postconditions:**

1. The book is issued to the student.
2. The due date for returning the book is established.
3. Both the student and librarian are informed of the successful book issuance.

### **Main Flow:**

1. The registered student initiates a book issuance request.
2. The system verifies the student's authentication status.
3. The system checks the availability of the requested book.
4. If the book is available, it is marked as issued to the student.
5. The system sets the due date for book return.
6. A notification is sent to both the student and the librarian to confirm the successful book issuance.

### **Alternate Flows:**

1. If the requested book is unavailable, the system informs the student that the book cannot be issued at this time.
2. If the student's authentication fails, the system notifies the librarian.