**SECTION 2**

# Function requirement in SRS

Functional requirements are like a set of instructions for a system. They describe what the system should do and how it should do it. They cover what the system should accept as input, what it should produce as output, and how it should interact with users and other methods. These requirements are essential because they help ensure that the result is what everyone wants and needs**.**

**Authentication and Authorization System:**

* The system implements a secure login mechanism for users, and administrators. The admin has the authority to manage user access and ensure data integrity.

**For Users**:

We will have following features for a User:

1. **New User Registration:**

This feature allows new users (students, teachers, etc.) to sign up for the system by providing the necessary details.

1. **Student Login:**

This feature Provides authenticated access for registered users to use the system.

1. **Search Book:**

This feature allows users to search for books based on criteria such as book ID, book name, or author name, enhancing the ease of locating desired materials.

1. **Issue Book:**

This feature allows users in borrowing books from the library by recording the transaction and updating the availability status.

1. **Return Book:**

This feature allows users to return books either before the due date or after the specified time with a late fine, ensuring proper management of borrowed materials.

**For Admin:**

1. **Record Library Activities:**

This feature allows librarians to enter various records into the system, such as book issuances, returns, and non-availability of books.

1. **Manage Books:**

This feature allows librarians to keep track of the library’s books by adding new books or removing them.

1. **Manage Student:**

This feature allows librarians to keep track of number of students and their details.

1. **View Issued Books:**

This feature allows librarians to view all Issued books with their status.

1. **Defaulter List:**

This feature allows librarians to show the details of the student who did not return the books before the deadline.

1. **Issue Book:**

This feature allows users in borrowing books from the library by recording the transaction and updating the availability status.

# Performance requirement in Library Information Systems;

These are the features or properties of the systems

1. **System response time**- This is the duration when the user wants to access a certain service in the system and this includes concurrent user handling
2. **Scalability for future growth:** This is the ability of the system to to go on the next version when necessary
3. **System reliability:**  This allows smooth operations with minimal downtime.