### Functional Specification (FS) for Library Management System

**1. Overview:**

* **Purpose:** To manage the books catalogue, user management, and monitoring.
* **Scope:** This system will cover book inventory, book checkout and return

**2. Functional Requirements:**

* **Admin Management:**
  + Add, update, view and delete book records.
  + Track available book list.
  + Categorize books by type, author, and publisher.
* **User Management:**
  + View Book Details
  + Search Book by name
  + Checkout and return book
  + Late payment penalty charge payment
* **Reporting:**
  + User Profiles
  + Book Records
  + Check out and Return/Late return record

**3. Non-Functional Requirements:**

* **Performance:** The system should allow multiple user at same time .
* **Usability:** The interface should be user-friendly and intuitive.
* **Security:** Ensure authorization and user access .