Stanford Library

STAKEHOLDERS

ACTOR	What he can do on the Software Created
Reader/Student	Should be able to login Should be able to access Dashboard Should be able to search a book Should be able to borrow reading material Should be able to pay the fine Should be able to re issue Should be able to provide feedback Should be able to logout Should be able to create and maintain reader profile
Library staff	Access to issue books Set Notification /Announcement Dashboard Fine tracker Information about the inventory
Management	Able to fetch Reports

PROBLEM DEFINITION AND SOLUTION

- A lot of time is wasted managing the manual library.
- The number of employees needed to manage the library is high.
- Fine calculation is a tedious and time-consuming affair.
- No reports could be generated on books issued due to the manual system.
- It is difficult to manage 4 million books present in the library.
- Students could deposit the books only in the library timings.

Advantages of LMS

- Reduce overheads and increase productivity of library staff
- Cost reduction
- Up-to-date records of all books, research papers, magazines, and other materials available in the library
- Improve student engagement in the library
- It will generate dynamic reports for better decision-making

EXISTING SYSTEM

- Currently the Library operations are manual , time consuming , complex and requires a lot of manpower , time is wasted .

PROPOSED SYSTEM

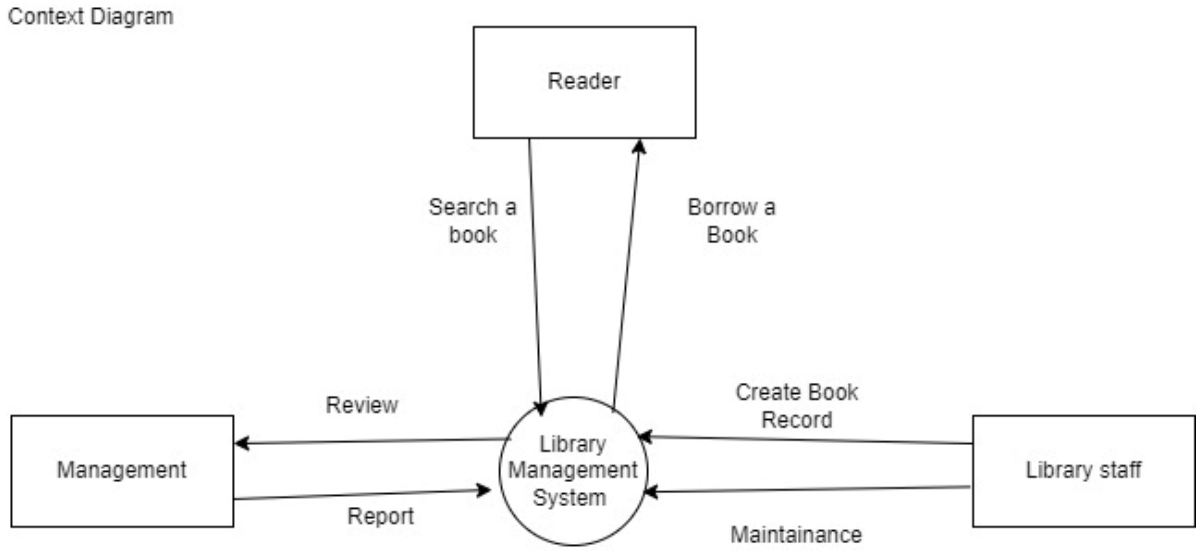
- The Proposed system will be an automated LMS which will have following capabilities:
- User Friendly interfaces via preferred access points (kiosk, desktop workstation or mobile) Search Facility
- Report Generation
- Time Saving
- Access to free e-journals and e-books through the software
- Notification.

SCOPE using Use Case Diagram (UML)

Library Management System

SCOPE using Context Diagram

Depict the scope using Context diagram.



DATA FLOW DIAGRAM

Create a data flow diagram.

IN SCOPE

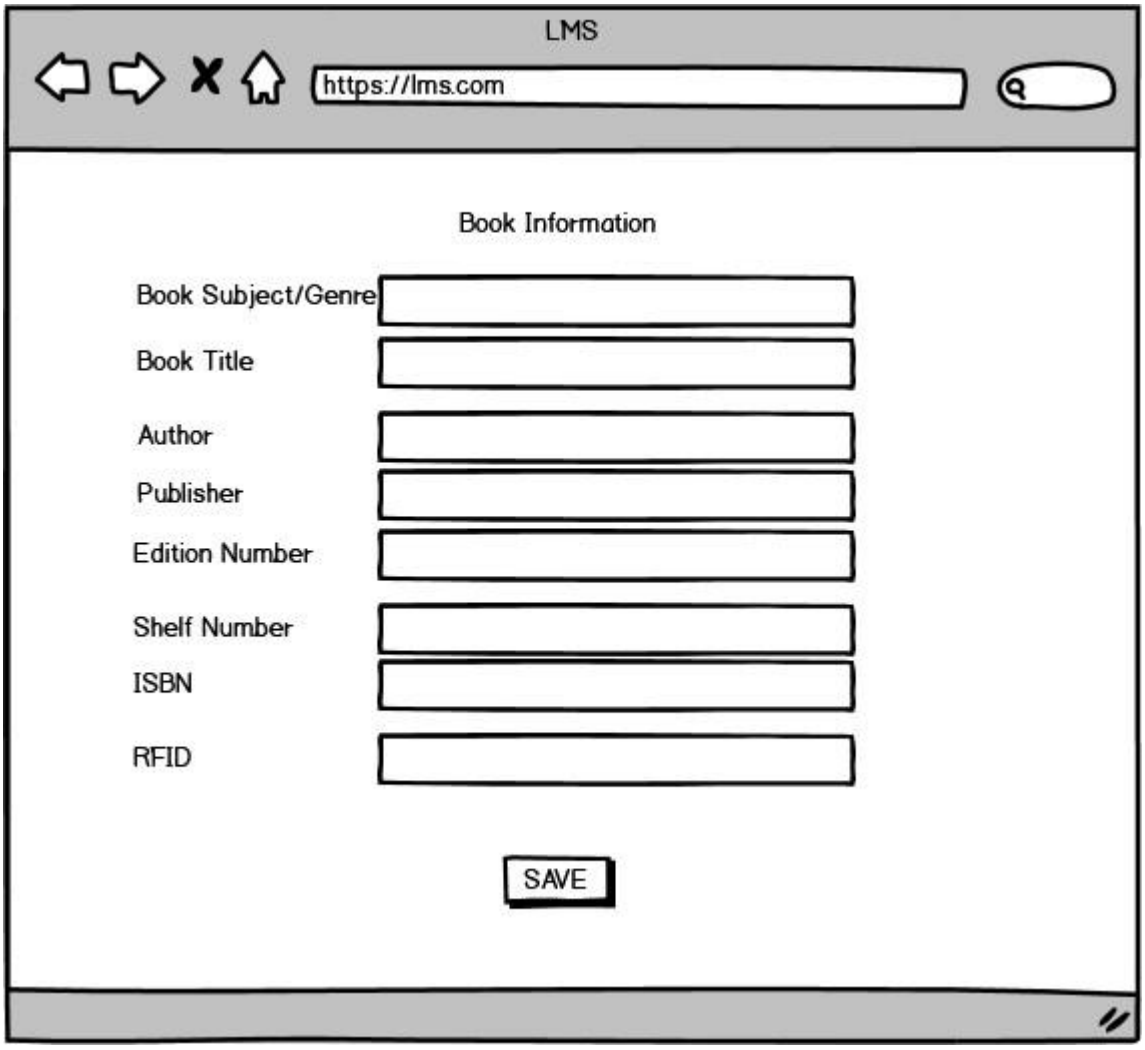
Login:
Create Record
Modify Record
Delete Record
Calculation of Fine
Reissue of Books
Review
Report
Search Book

OUT OF SCOPE

The books will not be issued to other campus with Standford universities.

Wireframes:

Create sample wireframes for the system. Capture what screen will be show to the library employees to create records for each book and at what stage in the system.



FUNCTIONAL REQUIREMENTS

Please write atleast one line explanation for each of the features below

Login:
Create Record
Modify Record
Delete Record
Calculation of Fine
Reissue of Books
Review
Report
Search Book

NON-FUNCTIONAL REQUIREMENTS

Write all the nonfunctional requirements for the system.

- **System Requirement:** LMS can be used on any Windows and MacOS run computers
- Users will need an active internet connection.
- It will be RFID ready (NCIP 2.0 HTTP server available)
- Auto scheduled tasks like emails and database maintenance
- Data should be stored in cloud
- Highly secure, scalable, and reliable

Usability: The screens should be self-explanatory and very user friendly.

Environments We are going to be creating and maintaining the program in Java. We chose Java because it will not change much over time and if we make it well, there will be very little maintenance to be done on the code.