

SOFTWARE REQUIREMENT SPECIFICATION FOR LIBRARY MANAGEMENT

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INTRODUCTION

With the increase in the number of readers, better management of library System is required. The Library Management system is developed on the android platform which basically focuses on issuing , renewing and reserving a book.

1.1 Purpose

The purpose of this document is to familiarize reader with software. Specification describes all hardware and software requirements for product, behavior of it and its components. Software Requirements Specification (SRS) allows to verify the customer that all his requirements are observed and implemented correctly by the developer.

1.2 Scope

The software will reflect all the requirements defined by the customer. College Library Management System will allow to perform all necessary procedures for librarians and patrons.

The software to be developed will consists of three data bases :

- ✓ Item's database**
- ✓ Patron's database**

1.3 References

- ✓ An Integrated Approach
Software Engineering Third
Edition by Panka Jalote.**
- ✓ Java : Balaguru Swamy**
- ✓ SQL : JosephL Jordan**

1.4 Overview

The implementation of Library Management starts with entering and updating master records like book details, library information. Any further transaction like book issue ,book return will automatically update the current books.

DESCRIPTION

2.1 Product Perspective

Library Management System (LMS) will provide an advanced book search mechanism and will make it easy to borrow, insert a book in the library.

2.2 Administrator

- Admin should be able to insert , modify and delete books.**

- **Increase the period for borrowing a book for specific type or group of users.**
- **Can get the information (status report) of any member who has borrowed a book.**
- **Add and edit book categories and arrange books by categories.**
- **Can record books returned by users.**

2.3 Users (Library Members)

- **The member should be provide with the update information about information about the books catalog.**
- **Members have the ability to search through books by subject, title, authors or any information related to the book.**

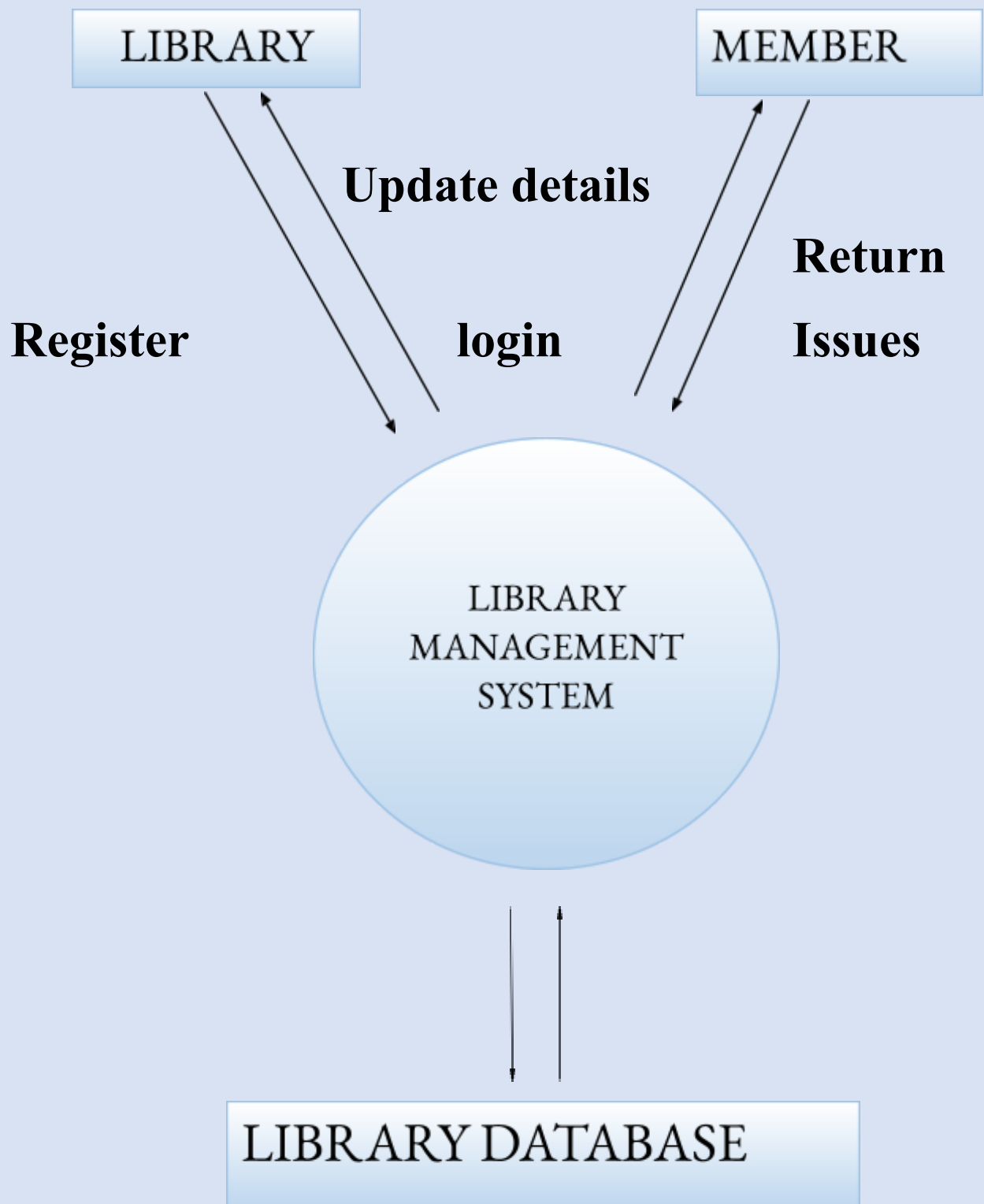
- **Can extend the period of borrowing books according to the library policy.**
- **The customer may suggest a book to brought to the library book collection.**

2.4 User Classes and Characteristics

We have 2 levels of users:

- **User module: In the user module, user will check the availability of the books.**
 - **Book return**
- **Administration module: The following are the sub module in the administration module.**
 - Register user**
 - Entry book details**
 - Book issues**

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FUNCTIONAL REQUIREMENTS

Functional requirements are the following

- ✓ The LMS should store all information about librarians and patrons, their access keys, priority and etc...,**
- ✓ The LMS allow searching item by author , title or keywords.**
- ✓ The LMS should support 500 patrons and 1000 requests/min simultaneously.**
- ✓ The LMS should allow librarians to add, delete and modify items in database, and check availability of the items.**
- ✓ The LMS should provide to search , request and renew items either from the library computers**

(LMS application) or from outside the library through college site though the internet.

- ✓ The LMS should provide access to previous Access-based database, online databases**

NON FUNCTIONAL REQUIREMENTS

5.1 Performance Requirements

- ❖ The system shall accommodate high no.of books and users without fail**
- ❖ Responses to view information shall take no longer than 5 seconds to appear on the screen**

5.2 Safety Requirements

System use shall not cause any harm to human users

5.3 Security Requirements

**System will use secured database.
System will have different types of users and every user has access constraints.**

5.4 Error Handling

LMS product shall handle expected and unexpected in ways that prevent loss in information and long downtime period.

