

3. Library management System (LIBMS)

Problem Statement: ~~To~~ overcoming the manual tracking - library books, numbers and transactions can result in loss of books, fine discrepancies and inefficiency. A LIBMS is required to automate the management of the book inventory, number registrations and transactions enhancing every experience and operational efficiency.

SRS

1. Introduction.

1.1 Purpose of this document:

This document outlines the software requirements for the LIBMS, aimed at automating library operations.

1.2. Scope of this document: The document covers functional & nonfunctional requirements.

interface requirements and performance metrics for library staff and users.

1.3. Overview: The LIBMS manage book inventory, member registration and transaction processing.

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2. General description.

- User characteristics: Librarian, members
- Features: Catalog management, user registration, transaction processing
- Benefits: Enhanced user experience, reduced manual errors.

3. Functional Requirement:

- user can search for books & check availability
- system allow for book check-outs & return
- generates overdue fines &

4. Interface Requirement:

- user friendly interface
- external catalog databases

5. Performance Requirement:

- High response time
- High accuracy

6. Design Constraints:

- use of open source database
- Should work on low-resources device

7. non-functional Requirement:

- Usability: easy to use & operate
- Portability: should work on multi-device

8. Preliminary Schedule & Budget:

- time: 4 months
- Budget: \$30,000 - \$100,000

Classes: Book, member, staffs, transaction,