

Library Management System

1] Problem Statement:-

The current library management process lacks efficiency & scalability, leading to difficulties in tracking book inventory, managing member accounts & facilitating smooth transactions. The aim is to develop a comprehensive Library Management System that automates these processes.

2] Introduction:-

2.1 Purpose of this document:-

This section clarifies why the SRS document is necessary. It serves as the guide of the development team, stakeholders & anyone involved in the project.

2.2 Scope of this document:-

Here, the overall working & main objectives of the Library Management System are described.

2.3 Overview

This section provides a summary of high-level review of the Library Management System. It briefly describes what the system is about & its key functionalities.

3] General Description:-

This Library Management System will cater to the needs of librarians, library staff and library

- members. It will feature intuitive interface, robust search capabilities, & comprehensive reporting functionalities. Key features include:
- Book cataloging & management.
 - Circulation management
 - Reservation & renewal
 - Reporting & analytics.

4) Functional Requirements:

4.1 Book Cataloging & Management

- Ability to add, edit & delete books from the library catalog
- classification & indexing of books based on categories, genres and authors.
- Tracking of book details such as title, author, ISBN, publication date & availability status.

4.2 Member Registration & Management

- Registration of library members with unique identification
- Ability to update member details & manage membership renewals.

4.3 Circulation Management

- check out/in of books
- Fine collection of overdue books
- Due date management.

5] Interface Requirement:-

The Library Management System will interact with users through

- Graphical user interface (GUI) for library staff.
- web-based interface for online catalog search.
- Mobile application for accessing library resources & services on the go.

6] Performance Requirements:-

- Response time for catalog search & book checkout < 3 sec.
- System uptime: 99.9%
- Concurrent user support: Min of 50 users.
- Data processing speed: Real time updates of the book.

7] Design Constraints

- Integration with existing library systems & databases for data migration
- Compliance with library standards & protocols for cataloging & circulation.

8] Non-functional Requirements:-

- Security: Encryption of sensitive data, role-based access for staff & members
- Portability: Accessibility across different devices & platforms
- Scalability: Ability to accommodate growing library collections & user base.

① Preliminary Schedule & budget

The development of the LMS is estimated to take 7 months with a budget of \$80,000. This includes analysis, design, development, testing, & deployment phases.

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