

3] LIBRARY MANAGEMENT SYSTEM

Problem Statement:

The current library management process lacks efficiency & scalability, leading to difficulties in tracking book inventory, managing member accounts & ~~and~~ facilitating smooth transactions. The aim is to develop a comprehensive Library Management system that automates these processes, enhances user experience and ensures seamless library operations for both librarians & patrons.

1] Introduction

1.1 Purpose of this Document

The purpose of this document is to outline the requirements & specifications for the development of LMS

1.2 Scope of this Document

This Document defines overall functionality, interface requirements, performance of LMS

1.3 Overview

The LMS is designed to automate and streamline various operations within a Library, including cataloging.

It aims to improve efficiency, enhance user experience & facilitate better management of Library resources.

2] General Description

The LMS will cater to the needs of library staff and library staff.

Key features

- Book catalog & Management
- Member Registration & Management
- Circulation Management
- Reservation & Renewal
- Reporting & Analytics

3] Functional Requirements :-

- Ability to add, edit & delete books & from library catalog.
- classification & indexing of books based on categories

4.2 Member Registration & Management

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

4.3 Circulation Management

- check out list of books
- Fine collection
- due date management

5) Interface Requirement :-

- Graphical user interface for staff
- web based interface
- Mobile application

6) Performance Requirement :-

- System uptime : 99.9%
- concurrent user support : Min of 50 users
- response time < 3 sec

7) Design constraints

- Integration with existing library system & databases for data migration

8] Non functional Requirements

- security
- portability
- scalability

9] Preliminary Schedule & Budget

The development of the LMS is estimated to take 7 months with a budget \$80,000.