

* Library Management System

1. Problem statement

The current library management system suffers from manual process and outdated technologies resulting in inefficiencies in book tracking, borrower management, and resource allocation. Implementing a modernized LMS is essential to streamline operations, improve accessibility & reduce user experience for both staff & patrons.

2. Introduction

2.1 Purpose

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

2.2 Scope of document

This document defines the overall functionality, interface requirements, & per se, functionality attributes for library management system.

2.3 Overview

LMS software designed to automate and efficient way of operations like inventory management, cataloging.

3. General Description

The library management system will take care of current book details at any point of time, will update the book details automatically.

4. Functional Requirements

- Cataloging: based on books, journals
- Circulation Management: Seamless access to library materials ensuring management of resources
- Reservation management

5. Interface Requirements:

- User Interface.
- Database interface.
- Integration Interface.

6. Performance Requirements

- Response time and should be minimum
- Real time updates
- Intuitive booking & enquiry interface

7. Design Constraints

- System should comply with industry standards
- System should be compatible with existing software & hardware
- Protect library data from various entities.

8. Non-functional Attributes.

- Portability
- Reliability
- Scalability

9. Preliminary Schedule and Budget

- Estimated Timeline: 6 months
- Estimated budget: 25,00,000