

SRS document for

(1) Library management system (LMS)

1. Introduction

1.1 Purpose of this document

This document system outlines the requirements for a library management system that manages library operations such as borrowing, returning and reserving books.

1.2 Scope of this document

The LMS will streamline the management of library resources, allowing users and librarians to interact with book data efficiently. It also covers system costs and time requirements.

1.3 Overview

The system provides essential features for managing books, tracking user activity, and automating fines for late returns.

2 General Description

The system will be used by students, faculty, and librarians to manage library operations, improving efficiency in book borrowing, catalog management, and fine calculation.

3. Functional Requirements

User registration and login

Book search and filter options

Borrow, return, and reserve functionalities.

Fine calculations and overdue notifications
Reports on current and overdue books

4. Interface requirements

Web-based interface for users & administrators
Database for storing book and user data
Notifications via email for overdue books

5. Performance requirements

The system should handle 500+ simultaneous users
Response time for searches should be under 2 sec

6. Design constraints

System should operate on common hardware and browsers.

Implementing must adhere to library regulations

7. Non-functional Attributes

Security : user authentication & data encryption
Reliability : system should have 99.5% uptime.

8. Preliminary schedule & Budget
Development period : 6 months
Estimated budget : \$25,000