

SRS for Library Management System

1. Introduction

1.1 Purpose of this Document:

This document outlines the requirements of 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 req.

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 and 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 seconds.

6. Design Constraints
System should operate on common hardware and browsers.
Implementation must adhere to library regulations.

7. Non-Functional ~~Attributes~~ Requirements
Security: User authentication and data encryption.
Reliability: System should have 99.5% uptime.

8. Preliminary Schedule and Budget.

Task	Team	Period	Estimated Budget
Development	Team	6 months	2,16,00,000
Infrastructure and Security			2,10,00,000
Integration with Govt Databases			2,60,00,000
Testing and Quality Assurance			24,00,000
Miscellaneous Cost			24,00,000