

# Library Management System

## Problem Statement:

Existing library management systems lack comprehensive functionality, suffer from performance issues, and have complex interfaces. A robust library management system (LMS) is needed to efficiently catalogue books, manage users, while ensuring seamless integration and compliance with industry standards.

### 1.1 Purpose of this Document:

This section clarifies why the SRS document is necessary. It serves as a guide for the development team and anyone involved in the project.

### 1.2 Scope of this Document:

The overall working and main objectives are described. It also outlines what value the system will provide to customers and stakeholders along with estimates of development cost and time.

### 1.3 Overview:

This section provides a summary of high-level review of the library management system. It briefly describes what the system is about and its key functionalities.

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### General Description:

This section provides a broad overview of the library management system, including its general functions, user characteristics, features and benefits.

### Functional Requirements:

describes the specific functions or capabilities that the library management system must perform. This includes actions such as cataloging books, managing users, transactions.

### Interface Requirements:

detail how it should communicate with users, other software systems and external devices.

### Performance Requirements:

specify how the library management system should perform under various conditions. This includes factors such as response time, scalability and system reliability.

### Design constraints:

design constraints outline any limitations or restrictions that the development team must adhere to when designing. This could include platform compatibility requirements, hardware limitations or constraints.



### Non-Functional Attributes :

Are qualities or characteristics of the library management system that are not directly related to its specific functions. This includes attributes like security, reliability, portability & scalability.

### Preliminary Schedule and Budget :

Includes a timeline and budget estimates. It outlines the phases of the project such as requirements gathering, design, implementation, testing and deployment.

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