

LIBRARY MANAGEMENT SYSTEM

SOFTWARE REQUIREMENTS SPECIFICATION

<p>20.9.24</p> <p>Page _____</p> <h3>SOFTWARE REQUIREMENTS SPECIFICATION</h3> <h4>FOR LIBRARY MANAGEMENT SYSTEM</h4> <h4>1. Introduction</h4> <p>1.1 Purpose of this Document : This document defines the requirements for a software system's functionality, serving as a guide for the development team.</p> <p>1.2 Scope of this Document : This document covers the functional, non-functional requirements of LMS, including design, system features and constraint. And also gives a overview of the project, timeline and budgets estimates.</p> <p>1.3 Overview : The LMS is a comprehensive software solution designed to streamline various operations like managing authorization, catalog management, department wise classification and so on.</p> <h4>2. General Description :</h4> <p>2.1 User Objectives : The system will enable librarians to efficiently manage resources automatically, the check-in and borrow-out of catalogs, generate report and integrate seamlessly with existing systems.</p>	<p>Date: / /</p> <p>Page: _____</p> <p>2.2 User Characteristics : The system will be used by different types of staffs of library including students, teachers and so on. Therefore, it should provide a user-friendly interface for various characters.</p> <p>2.3 Features :</p> <ul style="list-style-type: none">• Booking Management : Allow users to borrow or cancel booking.• Publications : If new papers are journal to published, management of those stuffs.• Reporting and analyzing. <p>2.4 Benefits : The system will overcome all types of traditional mode.</p> <h4>3. Functional Requirements :</h4> <ul style="list-style-type: none">• Membership management : Management of different categories of members.• Book Management : Management of books, if borrowed, returned or delayed.• Circulation Management : Based on book management, the circulation of book are managed.• Catalog management : Managing various type of books, journals, articles, and so on.
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4. Interface Requirements :

4.1 User-Interface : Provides web-based UI accessible through both desktop and mobile.

5. Performance Requirements :

5.1 Booking processing speed.

5.2 System availability.

5.3 Reliability.

6. Design Constraints :

6.1 Security compliance.

6.2 Legal and Regulatory Requirements.

7. Non-functional attributes :

7.1 Security.

7.2 Reliability.

7.3 Usability.

7.4 Maintainability.

8. Preliminary Schedule and Budget

8.1 Schedule : The project is estimated to take 5 months ;

- Requirements gathering (2 weeks)
- Design Phase (1 month)
- Development Phase (2 months)
- Testing phase (1 month)
- Deployment and Training (2 weeks)
- Post-deployment support (2 weeks)

8.2 Budget : The total estimated budget is \$150,000 ;

- Requirements gathering : \$15,000
- Design Phase : \$25,000
- Development Phase : \$30,000
- Testing Phase : \$20,000
- Deployment and Training : \$7,500
- Post-deployment support : \$22,500

UML DIAGRAMS

CLASS DIAGRAM

LIBRARY MANAGEMENT SYSTEM - CLASS DIAGRAM



