

LIBRARY MANAGEMENT SYSTEM

SOFTWARE REQUIREMENTS SPECIFICATION

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		SOFTWARE REQUIREMENTS SPECIFICATION	
		FOR LIBRARY MANAGEMENT SYSTEM	
1	Introduction		
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.	
1.2	Scope of this Document :	This document covers the functional and non-functional requirements of LMS, including design, system features and constraints, and also gives a overview of the project timeline and budgets estimates.	
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.	
2	General Description :		
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.	
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.	
2.3	Features :	<ul style="list-style-type: none">• Booking Management : Allow users to borrow, or cancel booking.• Publications : If new papers or journal to published, management of those stuffs.• Reporting and analyzing.	
2.4	Benefits :	The system will overcome all types of traditional mode.	
3	Functional Requirements :	<ul style="list-style-type: none">• Membership management : Management of different categories of member.• 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 types of books, journals, articles, and so on.	

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 (3 months)
- Testing phase (1 month)
- Deployment and Training (2 weeks)
- Post-deployment support (2 weeks)

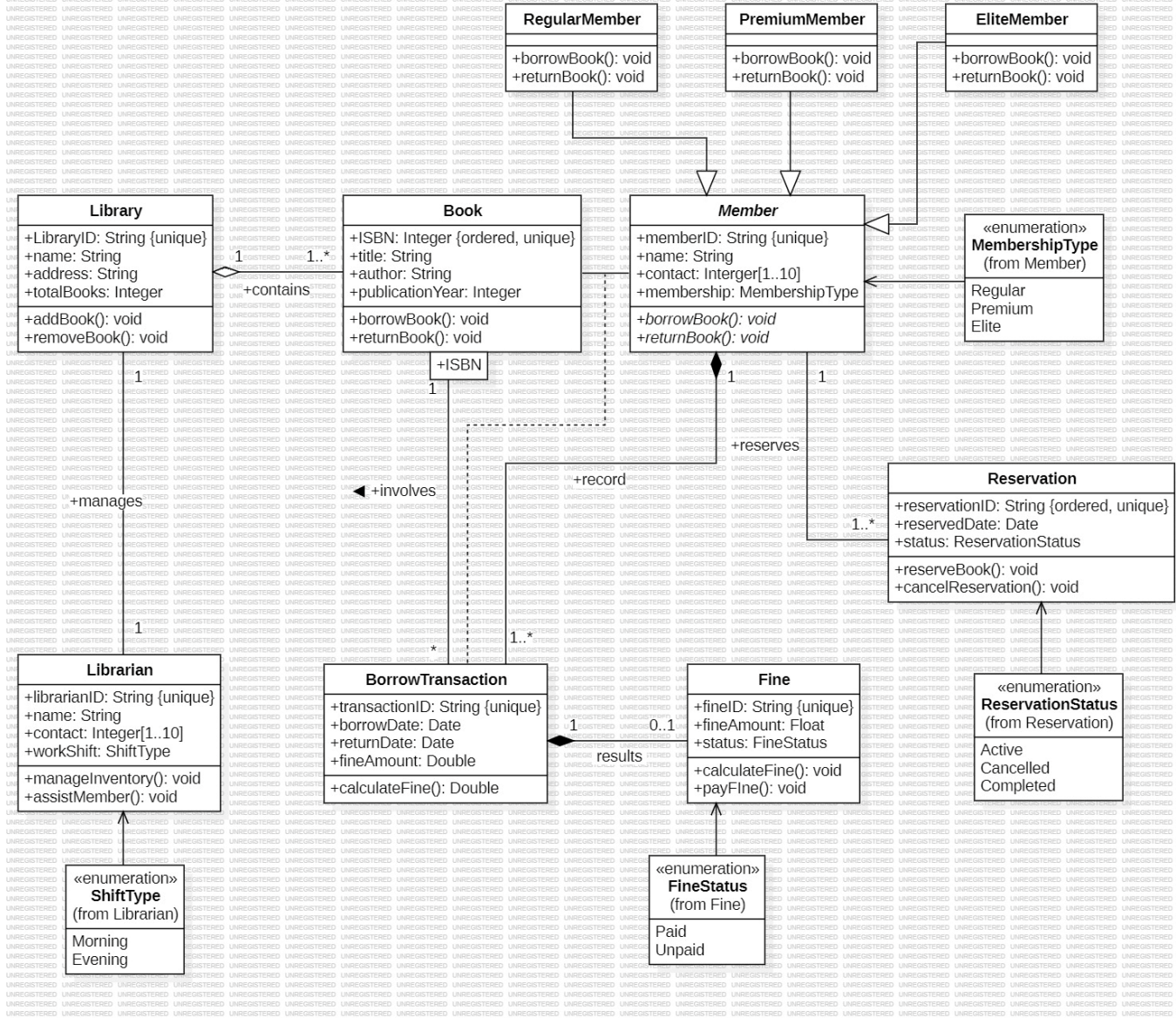
- 8.2 Budget : The total estimated budget is \$150,000 ;

- Requirements gathering : \$15000
- Design Phase : \$25,000
- Development Phase : \$30,000
- Testing Phase : \$20,000
- Deployment and training : \$7,500
- Post-deployment support : \$2800

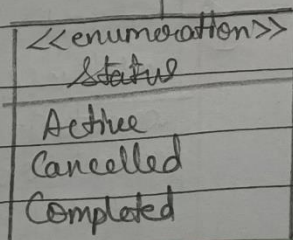
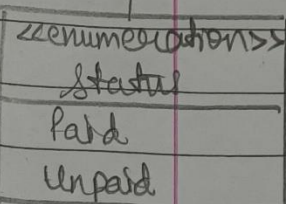
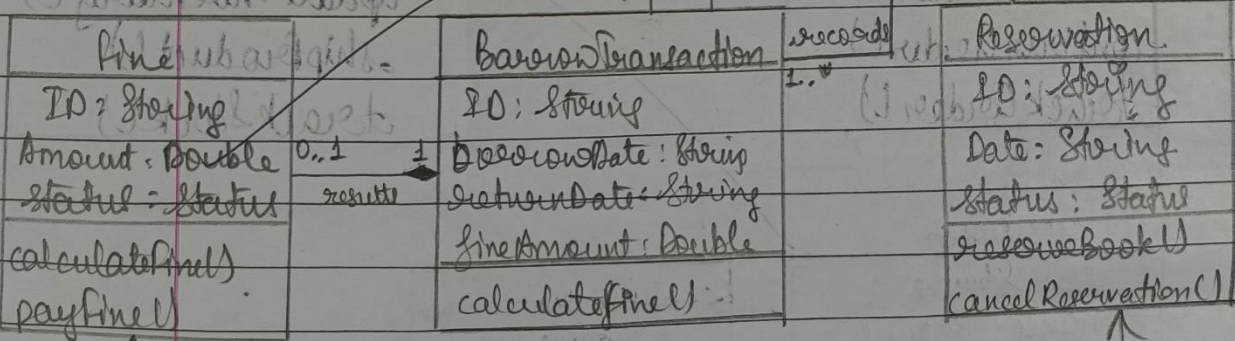
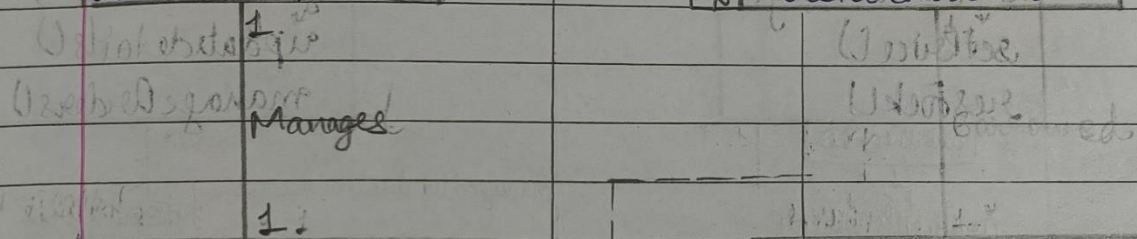
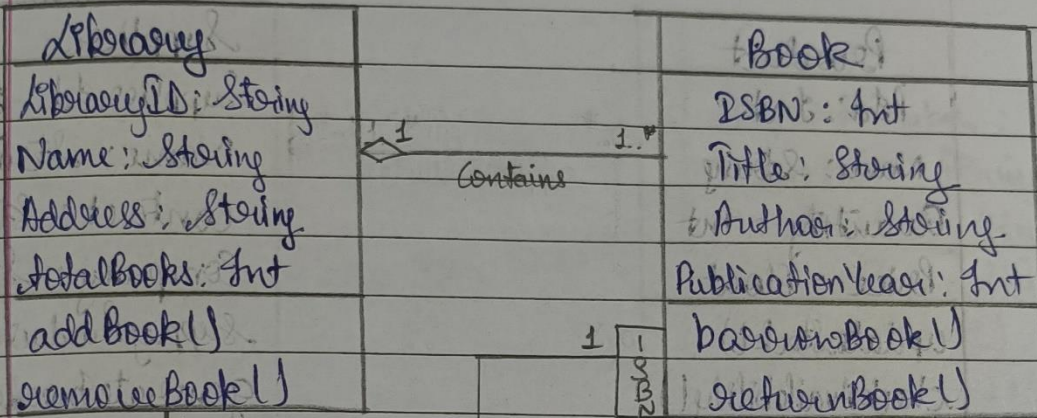
UML DIAGRAMS

CLASS DIAGRAM

LIBRARY MANAGEMENT SYSTEM - CLASS DIAGRAM



LIBRARY MANAGEMENT SYSTEM



STATE DIAGRAM

