

Lab 2
3/10/24

Passport Verification authentication
Library

METRO
Page: _____
Date: ____/____/____

→ Library Management:-

→ Introduction

- Purpose of this Library Management:
The purpose of LMS is to simplify & automate various tasks related to the administration & operation of a library.

Facilitate easy access to vast collection of books & resources

Scope:-

- Cataloging
- Member management
- Lending management
- Reporting & analytics

Overview

It consists of several modules that work together to handle library functions. It is designed to streamline the management of library resource & enhance the user experience for both staff & members.

General description

- It is software designed to automate & manage the operations of library. It helps book lending, borrowing, catalog & resource tracking.
- Catalog management
 - Member management
 - Transaction management
 - Report Generation

3) → Functional Requirements

- User management
- Book management
- Search & Discovery
- Borrowing recovery.
- Fine & Penalty management

4) Interface Requirement:-

It describes the interaction b/w user & system, as well as external system.

- UI → web Based Interface
- Administrative Interface
 - Dash board
 - Role based Access
- External Interface
 - Integration with other systems.
 - Online Payment Gateway.

5) Performance Requirements:- It ensures that the system functions efficiently under normal & peak loads, ensuring a smooth user experience.

- Respond Time
- Scalability
- Availability
- Fault Tolerance

6) Design Constraints:- They are limitations or restrictions that the system must develop. The constraints include

- Hardware constraints
- Software constraints
- Regulatory constraints

→ Time constraints

7) Non-functional - It refers to the quantity attributes of the system.

They focus on

- Performance
- Security
- Maintainability
- Usability.

8) Preliminary Schedule & Budget

- Week 1 :- Project Initiation
- Week 2 :- Requirements Gathering
- Week 3 :- Design
- Week 4 :- Develop
- Week 5 :- Testing
- Week 6 :- Deployment
- Week 7 :- Maintenance & Support.

Estimate Budget breakdown

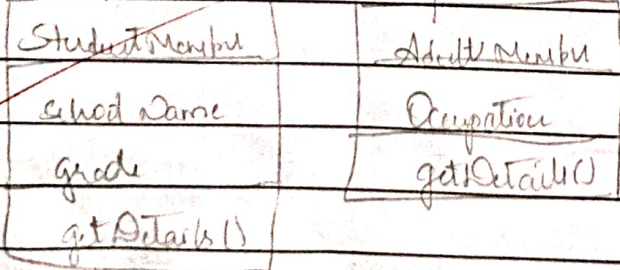
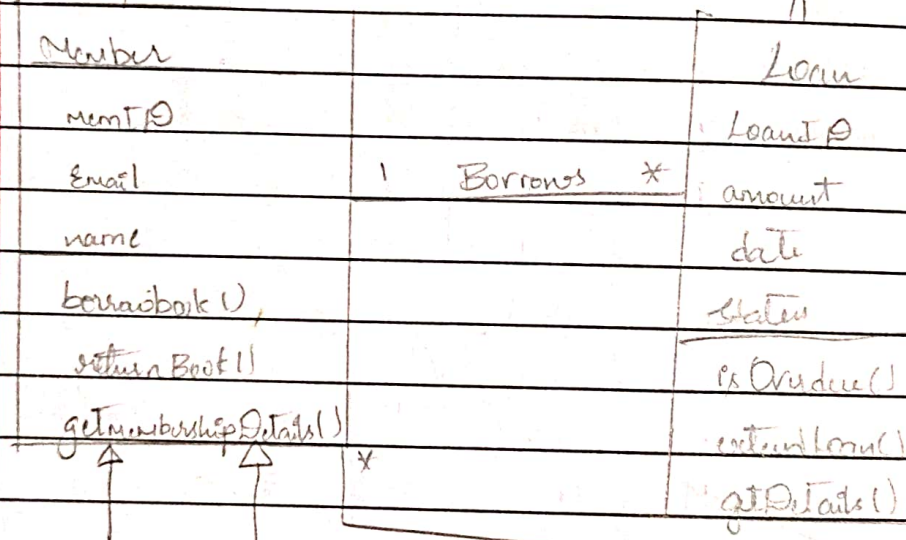
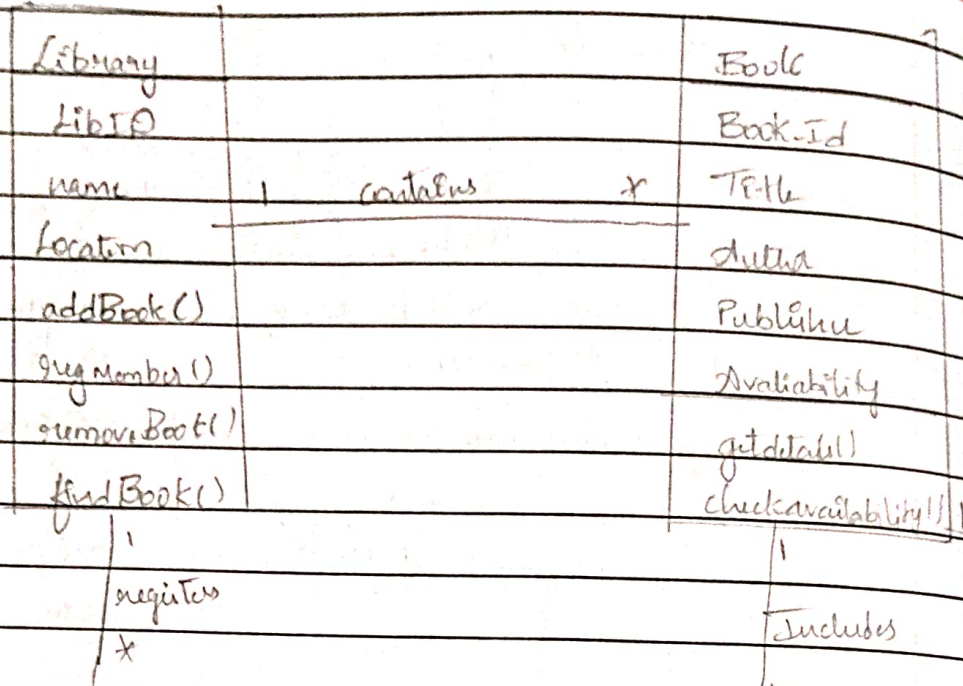
1)	Software & Tool cost	10,000
2)	Hardware cost	15,000
3)	Training & Documentation	50000
4)	Maintenance cost	50000
5)	Contingency Fund	11000
		<u>1,36,000</u>

Library Management System

METRO

Page:

Date:



	Librarian		Publisher
	LibID		PubID
Assistance *	name		name
	Email		address
	hireDate	Publisher	contactName
	assistNumber()	→	getPubDetails()
	generateReport()		ListPubDetails()
	manageInventory()	PublishedBy	

Assistance
LibID
date
Purpose
Status
record()
getDetails()