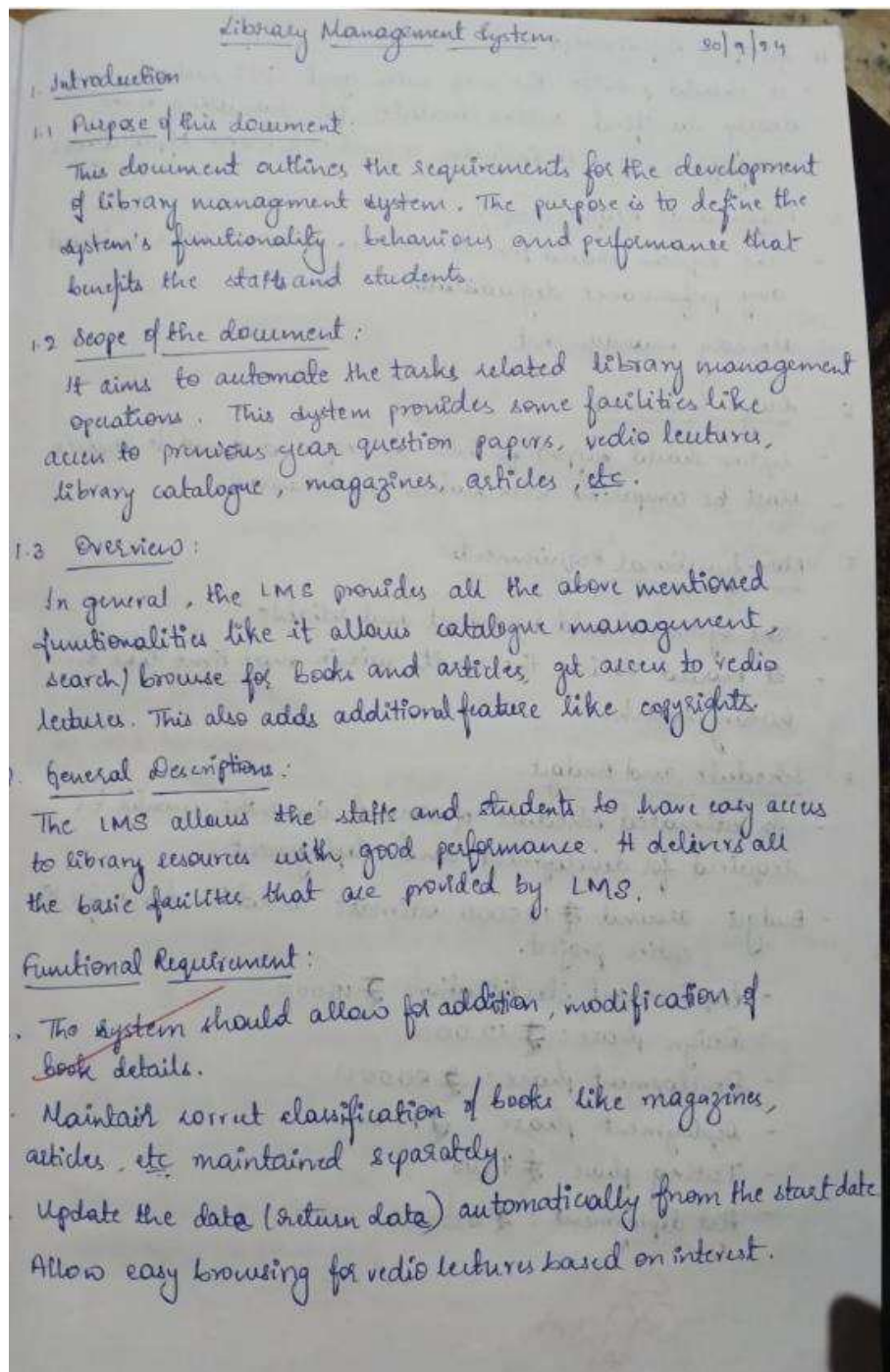


# LIBRARY MANAGEMENT SYSTEM

## SOFTWARE REQUIREMENTS SPECIFICATION



#### 4. Interface Requirement:

- It should provide the user with good GUI such as clearly classified sections/modules for handling books, magazines, etc. It includes a good web based applications.

#### 5. Performance Requirement:

- The system should provide concurrent user access without any performance degradation.
- Memory management.

#### 6. Design Constraints:

- System should support for both desktop and mobile devices.
- Must be compatible with modern web browsers.

#### 7. Non-functional Requirements:

- The system should be robust and reliable.
- It should deliver the results within short time like the history search.

#### 8. Schedule and Budget:

- An estimated schedule of around 6 months would be required for development and deployment.
- Budget: around ₹125000 estimate could be done for the entire project.
  - Requirement identification: ₹15000
  - Design phase: ₹15000
  - Development phase: ₹80000
  - Deployment phase: ₹17500
  - Testing phase: ₹7500
  - Post deployment: ₹5000

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## LIBRARY MANAGEMENT SYSTEM

### Library

LibraryID: String

Name: String

Address: String

TotalBooks: Int

addBook()

removeBook()

listBooks()

listBorrowedBooks()

manage()

### Librarian

LibrarianId: Int

Name: String

Contact: Int

workShift: String

manageInventory()

assistMember()

### Book

ISBN: Int

Title: String

Author: String

PublicationYear: Int

borrowBook()

returnBook()

### Member

memberId: Int

Name: String

contact: Int

membership: String

borrowBook()

returnBook()

### BorrowTransaction

ID: String

Amount: Double

Status: Status

calculateFine()

payFine()

### BorrowTransaction

ID: String

BorrowDate: String

ReturnDate: String

FineAmount: Double

calculateFine()

### Reservation

ID: String

Date: String

Status: Status

reserveBook()

cancelReservation()

&lt;&lt;enumeration&gt;&gt;

Status

Paid

Unpaid

&lt;&lt;enumeration&gt;&gt;

Status

Active

Cancelled

Completed