

A Project Report On

Library Management System

Submitted in partial fulfillment of the requirement for the
award of the degree

Bachelor of Computer Application (BCA)

Academic Year 2025 - 26

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Faculty of Computer Applications (FCA)

Certificate

This is to certify that the project work entitled
<Library management system>
submitted in partial fulfillment of the requirement for
the award of the degree of
Bachelor of Computer Application
of the
Marwadi University
is a result of the bonafide work carried out by
<Prince Jakhotra(92300527149)>
<Dharmik Jiyan(92300527173)>

during the academic year 2025-26

Kishita Doshi
Faculty Guide

Sunil bajeja
HOD

RSreedaran
Dean

DECLARATION

I/We hereby declare that this project work entitled **Library Management System** is a record done by me.

I also declare that the matter embodied in this project is genuine work done by me and has not been submitted whether to this University or to any other University / Institute for the fulfillment of the requirement of any course of study.

Place : marwadi university-rajkot

Date :28/08/2025

Prince jakhotra (92300527149) Signature : prince

Dharmik jiyani (92300527173) Signature : dharmik

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1.SYNOPSIS

➤The Library Management System is a web-based application developed using PHP and MySQL to automate the routine tasks of a library. It enables librarians to manage books, student records, and transactions like issuing and returning of books efficiently.

➤The system is divided into several modules:

- **Admin Module:** Manage books, students, and staff records.
- **Book Management Module:** Add, update, delete, and search books.
- **Issue/Return Module:** Handle issuing and returning of books with due dates and fines.
- **User Module (Students/Staff):** View available books, check issued books, and due dates.
- **Reports Module:** Generate detailed reports of transactions and usage.

2.PREAMBLE

2.1. General Introduction:

➤The Library Management System is a web-based application that automates the process of managing books, students, and transactions in a library. It reduces manual work, saves time, and ensures accurate record-keeping. The system allows librarians to manage books and members efficiently, while students can easily search,

view, and issue books online.

2.2.Module description:

- **Admin Module:** Manage books, students, and staff records.
- **Book Module:** Add, update, delete, and search books.
- **Issue/Return Module:** Handle book issuing, returning, and fines.
- **User Module:** Students can view available books and check their issued books.
- **Report Module:** Generate reports of transactions and usage.

3.REVIEW OF LITERATURE

➤Our Library Management System, developed using PHP and MySQL, is a simplified version designed for academic purposes. It focuses on providing core functionalities like book management, issuing/returning, and generating reports in a user-friendly and cost-effective way, making it suitable for small and medium-sized institutions.

➤Many libraries still rely on manual systems for managing books and records, which are time-consuming and prone to errors. To overcome these issues, several digital library systems have been developed worldwide.

4. TECHNICAL DESCRIPTION

4.1. Hardware Requirement:

- **Processor:** Intel i3 or higher
- **RAM:** Minimum 4 GB
- **Hard Disk:** 500 GB or more
- **Monitor:** 15" or higher
- **Input Devices:** Keyboard, Mouse

4.2. Software Requirement:

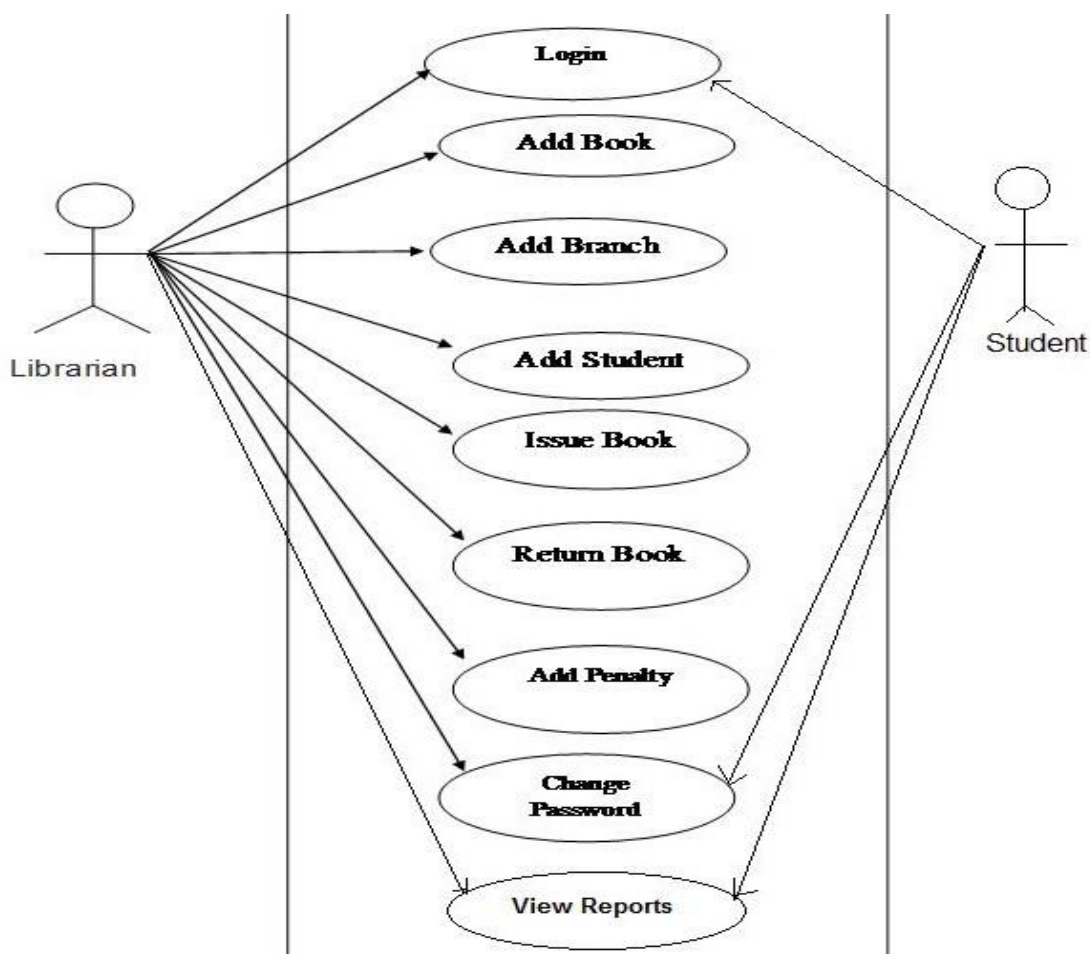
- **Operating System:** Windows / Linux
- **Frontend:** HTML, CSS, JavaScript, PHP
- **Backend:** MySQL Database
- **Server:** Apache (XAMPP)
- **Browser:** Chrome / Firefox / Edge

5.SYSTEM DESIGN AND DEVELOPMENT

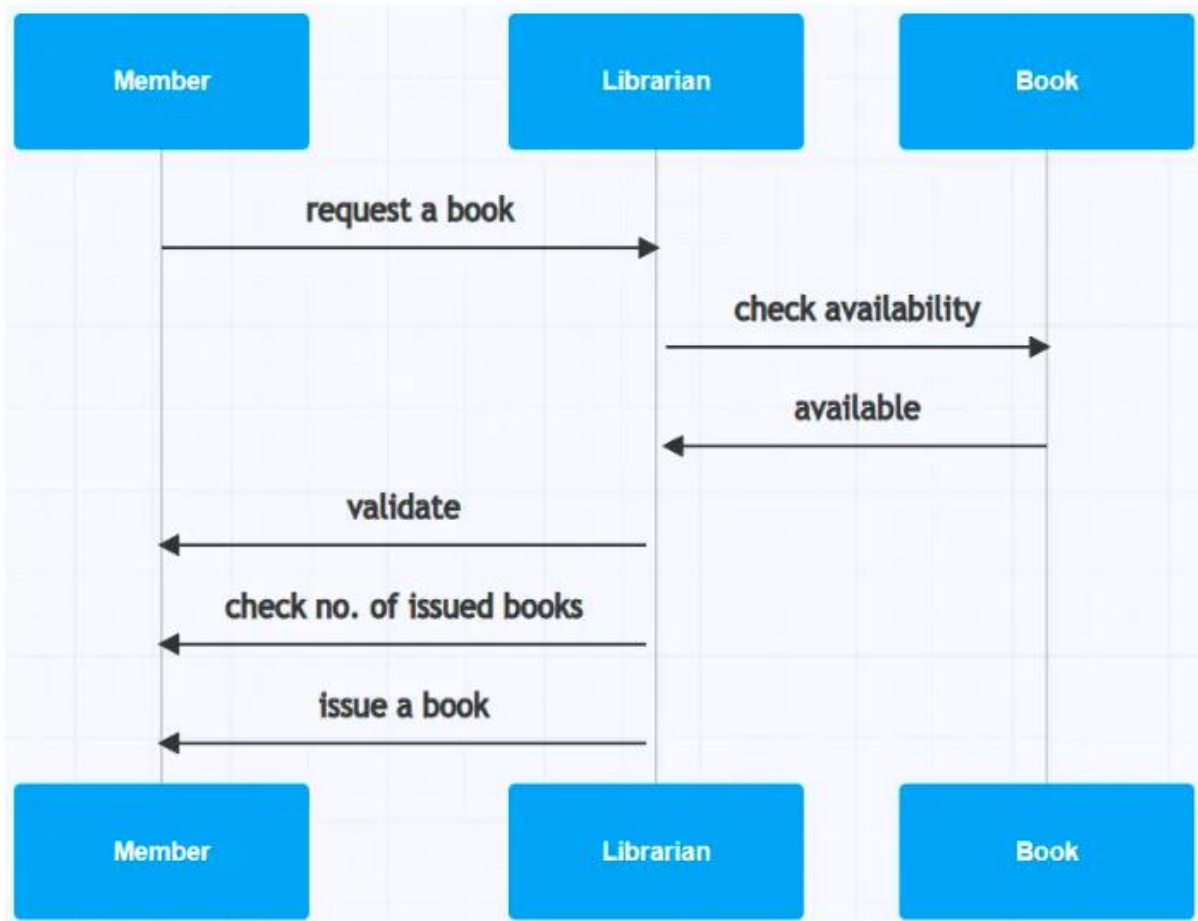
5.1Architectural Design:

- **Client Side (User):** Students and admin interact through a web interface built using HTML, CSS, JavaScript, and PHP.
- **Server Side (Application):** PHP scripts handle business logic, process requests, and connect to the database.
- **Database (Backend):** MySQL stores all records, including books, users, and transactions.

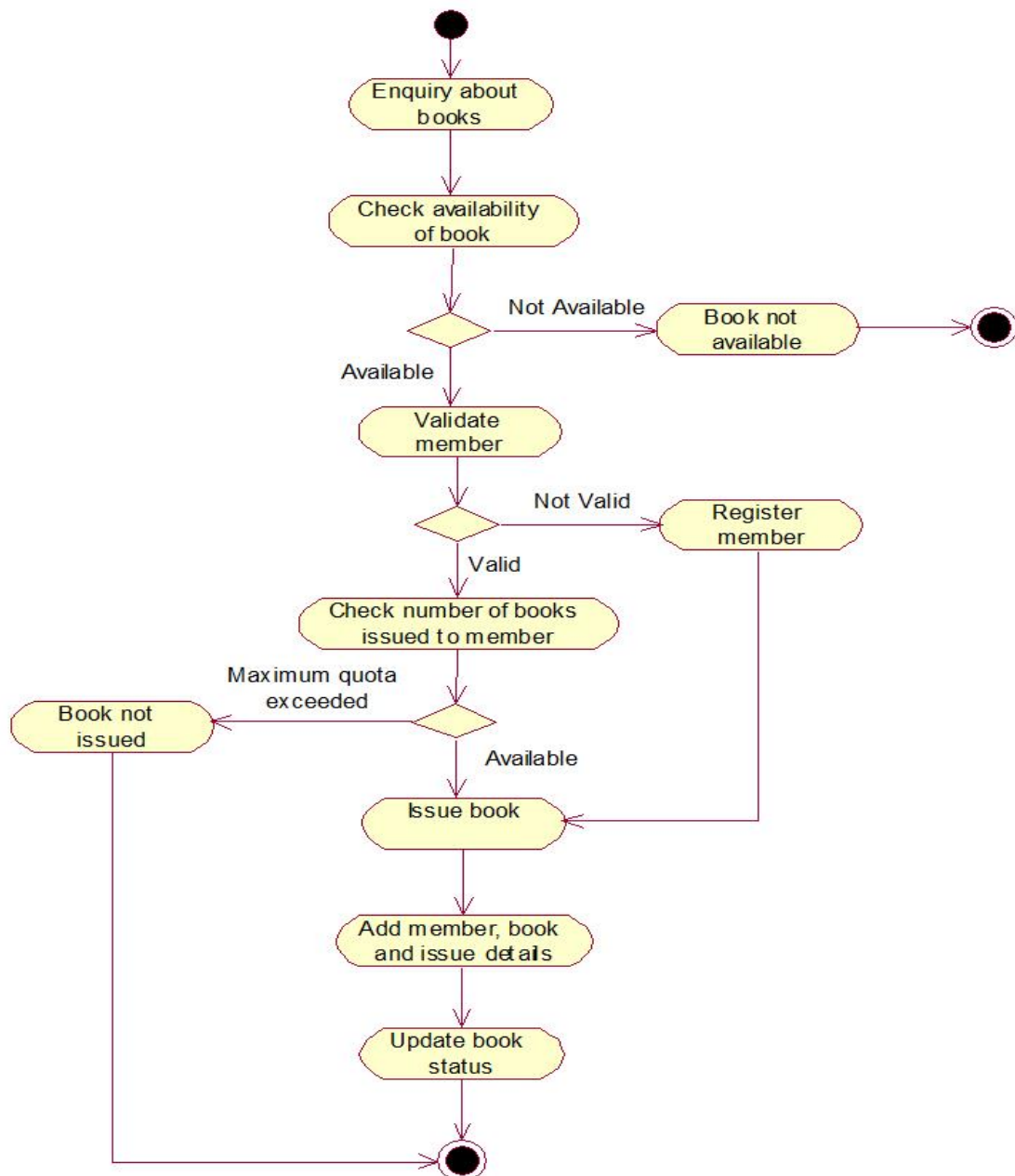
5.2 Class Diagram:



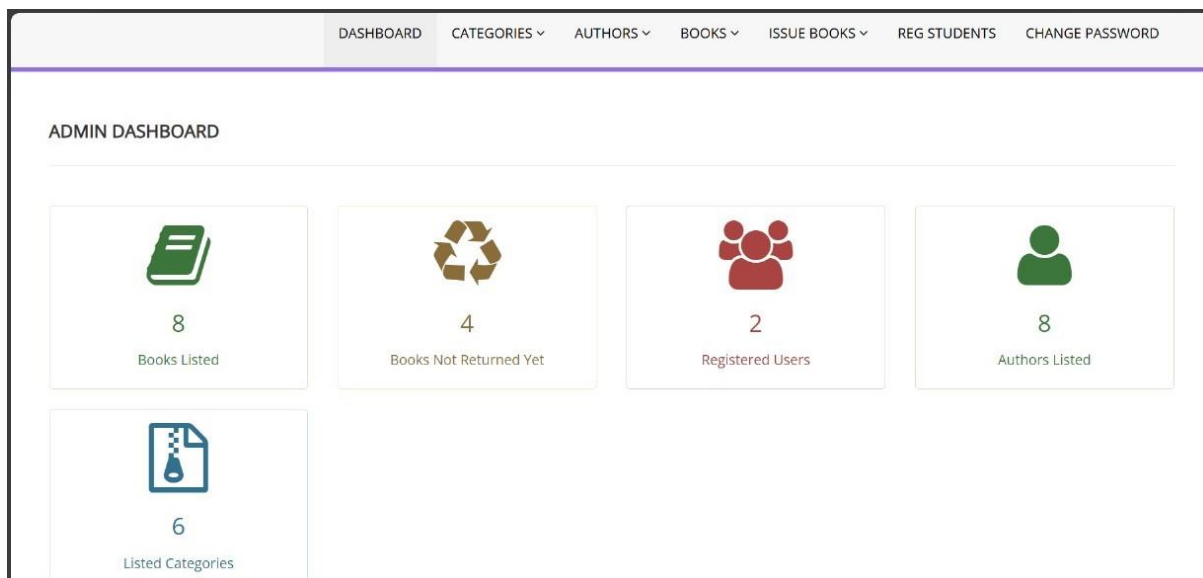
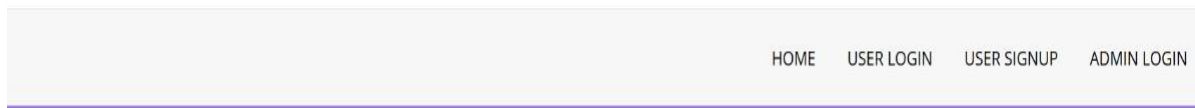
5.3.SequenceDiagram:



5.3.2. Activity Diagram:



5.4.2. Menu Design:



Screen Design:

LOGIN FORM

Enter Email Id

Password

[Forgot Password](#)

[LOGIN](#) | [Not Register Yet](#)

localhost/library/admin/manage-books.php

Online Library Management System

LOG ME OUT


DASHBOARD CATEGORIES ▾ AUTHORS ▾ BOOKS ▾ ISSUE BOOKS ▾ REG STUDENTS CHANGE PASSWORD

MANAGE BOOKS

Books Listing

10 ▾ records per page

Search:

#	Book Name	Category	Author	ISBN	Price	Action
1		Technology	Jonathan	2030	1130.00	Edit Delete

#	Student ID	Student Name	Email Id	Mobile Number	Reg Date	Status	Action
1	SID014	prince jakhotra	prince@gmail.com	8849181522	2025-08-26 16:33:26	Active	inactive Details
2	SID015	dharmik	dharmik@gamil.com	8974688221	2025-08-26 16:39:46	Active	inactive Details

6. CONCLUSION

➤The Library Management System successfully automates the core activities of a library such as book management, student records, and transactions of issue/return. It eliminates the need for manual record-keeping, reduces errors, and provides quick access to information.

➤By using PHP and MySQL, the system ensures a reliable, scalable, and user-friendly platform that benefits both librarians and students. It saves time, improves efficiency, and maintains accurate records, making library operations smoother and more effective.

7.LEARNING DURING PROJECT WORK

➤During the development of this project, we gained valuable practical knowledge and skills, such as:

- 1.Understanding client-server architecture and web application workflow.

2.Developing dynamic web pages using PHP and integrating them with a MySQL database.

3.Performing operations Create, Read, Update, Delete for managing books and users.

4.Designing and implementing ER diagrams, use case diagrams, and class diagrams for system modeling.

8.BIBLIOGRAPHY

8.1 Online References:

- <https://www.php.net/> – Official PHP Documentation
- <https://www.mysql.com/> – MySQL Official Website
- <https://www.w3schools.com/> – Tutorials on HTML, CSS, PHP, and SQL

8.2.Offline References

- PHP & MySQL programming textbooks
- Database Management System (DBMS) textbooks
- Class notes and study materials