

◆ **Title:**

## **Library Management System with Dashboard and Book Management**

### **1. Introduction:**

In the digital age, manual library systems are becoming inefficient, error-prone, and difficult to maintain. The **Library Management System** is developed to automate the basic operations of a library including book management, member management, and book issuance. This system provides a user-friendly interface to manage all these tasks efficiently.

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### **2. Abstract:**

This project presents a **web-based library management system** using HTML, CSS, JavaScript, and backend technologies like PHP and MySQL. It supports book addition, member registration, issuing and returning books, and viewing recently added books. The interactive dashboard displays real-time data about the total number of books, members, and books issued. The system also highlights key features like search and filter options and an intuitive interface, making it suitable for any academic or institutional library.

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### **3. Objectives:**

- To digitize library operations.
  - To make book issuance, return, and member registration faster.
  - To maintain accuracy in book records.
  - To enhance the user experience with a modern dashboard UI.
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### **4. Result/Output:**

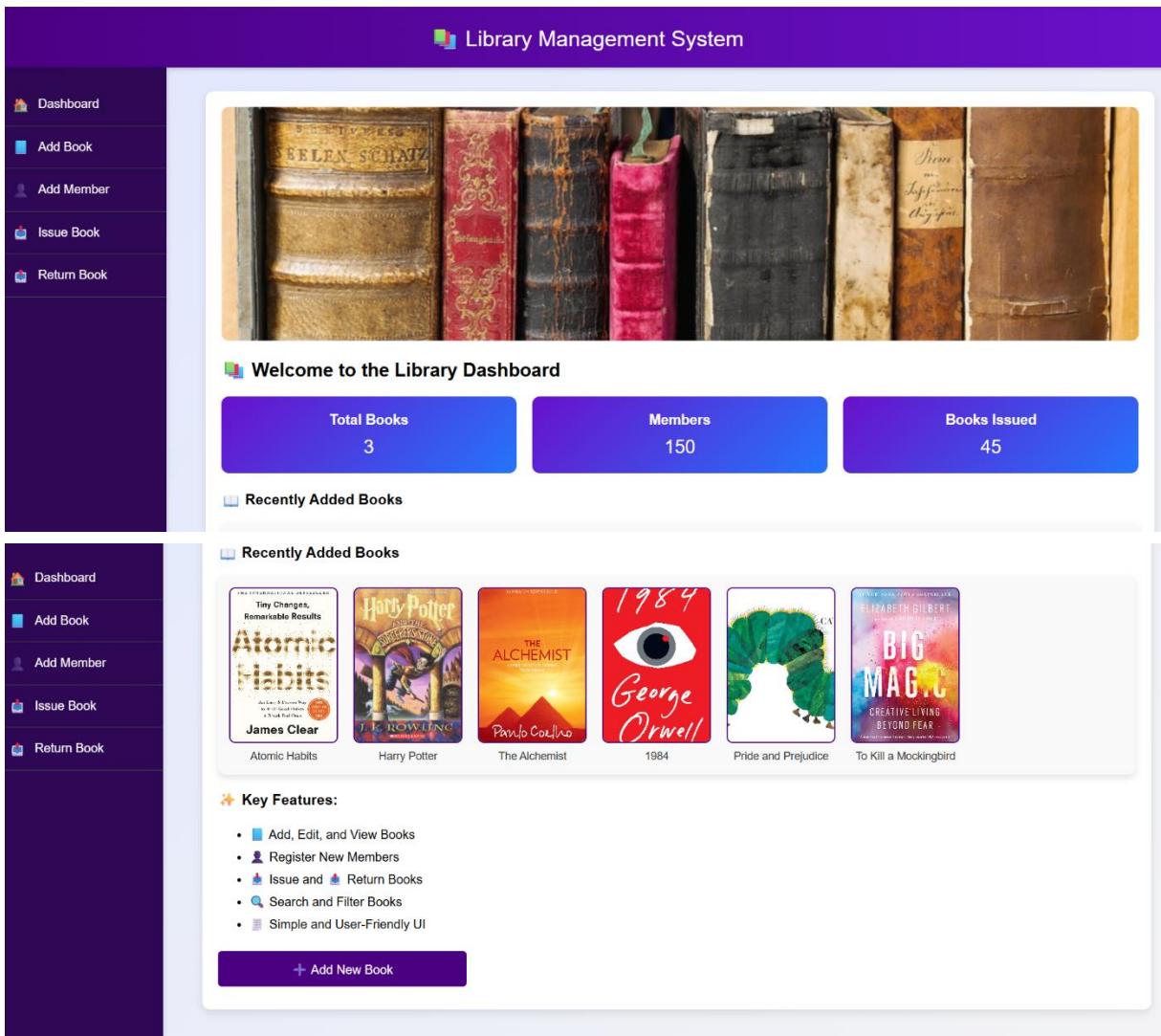
The system was successfully implemented and tested on a local server (127.0.0.1). The dashboard displays:

- **Total Books:** 3
- **Total Members:** 150
- **Books Issued:** 45

## ✓ Key Achievements:

- Successfully added and listed books.
- Member registration functional.
- Issued and returned books.
- Implemented search and filter features.

## 🖼 5. Screenshots Description:



The screenshot displays the Library Management System interface. The top navigation bar is purple with the text "Library Management System". On the left, a sidebar menu lists "Dashboard", "Add Book", "Add Member", "Issue Book", and "Return Book". The main content area features a large image of several old books. Below this is a section titled "Welcome to the Library Dashboard" with three cards: "Total Books" (3), "Members" (150), and "Books Issued" (45). Further down, there are sections for "Recently Added Books" showing five book covers: "Atomic Habits" by James Clear, "Harry Potter and the Sorcerer's Stone" by J.K. Rowling, "The Alchemist" by Paulo Coelho, "1984" by George Orwell, and "Pride and Prejudice" by Jane Austen. At the bottom, a section titled "Key Features:" lists the system's capabilities: Add, Edit, and View Books; Register New Members; Issue and Return Books; Search and Filter Books; and a Simple and User-Friendly UI. A purple button at the bottom left says "+ Add New Book".

**Library Management System**

Dashboard

Add Book

Add Member

Issue Book

Return Book

Welcome to the Library Dashboard

Total Books 3

Members 150

Books Issued 45

Recently Added Books

Atomic Habits by James Clear

Harry Potter and the Sorcerer's Stone by J.K. Rowling

The Alchemist by Paulo Coelho

1984 by George Orwell

Pride and Prejudice by Jane Austen

Key Features:

- Add, Edit, and View Books
- Register New Members
- Issue and Return Books
- Search and Filter Books
- Simple and User-Friendly UI

+ Add New Book

### **Screenshot 1: Dashboard Overview**

- Shows a welcome banner and statistics boxes.
- "Total Books", "Members", and "Books Issued" are dynamically updated.

### **Screenshot 2: Recently Added Books + Features**

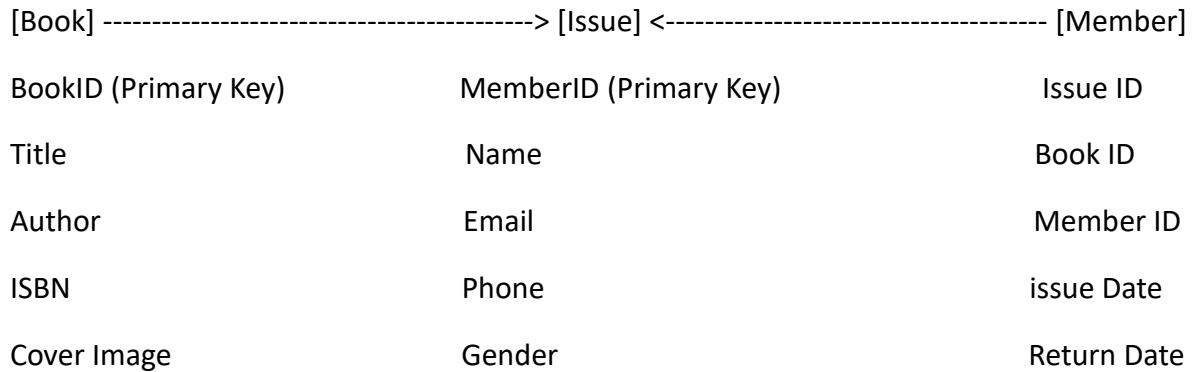
- Lists books like *Atomic Habits*, *Harry Potter, 1984*, etc.
- Highlights system features such as search, add, issue/return books, and register members.

## **6. New Contributions:**

- Added visual book covers to enhance book discoverability.
- Search and filter integration for easy navigation.
- Gradient UI design for the sidebar and statistics panel.
- Separated file structure (HTML, CSS, JS, PHP) for modular coding and maintainability.

## **7. UML/ER Diagram:**

### **Entity Relationship Diagram (ERD):**



## **8. Technologies Used:**

- **Frontend:** HTML, CSS, JavaScript
- **Backend:** PHP

- **Database:** MySQL
- **Server:** XAMPP / Localhost

## **9. Conclusion:**

The Library Management System provides a structured and modern solution to traditional library challenges. It saves time, reduces manual work, and enhances user satisfaction with its user-friendly design. Future improvements could include login authentication, role-based access, overdue notifications, and cloud integration.