

Project Report

Library Management System

Submitted By:

Saifullah Mumtaz (2312397)

Ali Imtiaz (2312103)

Course: Database System (DBS)

Instructor: Sir Abid Ali

Submission Date: 11-06-2025

Project Report

Introduction

Library Management System that simplifies book tracking, member management, and loan processes for seamless library operations.

Project Objective

The main goal of this project is to efficiently manage library operations, including book cataloging, member registrations using a custom-built API for seamless data handling.

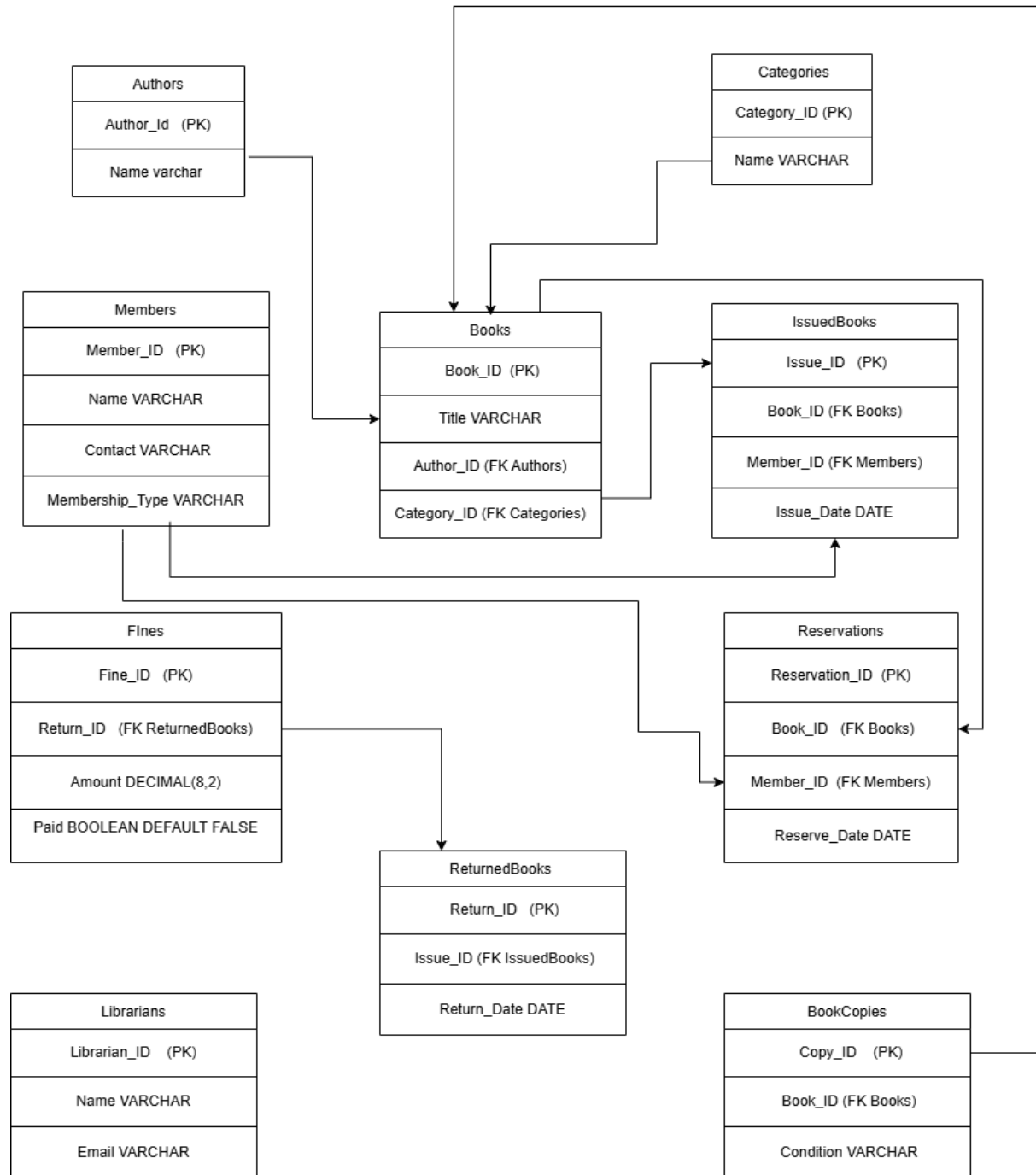
Tools and Technologies

HTML5 & CSS3

- Bootstrap 5.3.2
- JavaScript
- Node.js
- Express.js
- PostgreSQL (Neon.tech)
- Chart.js
- GitHub
- draw.io

Project Report

Database Design



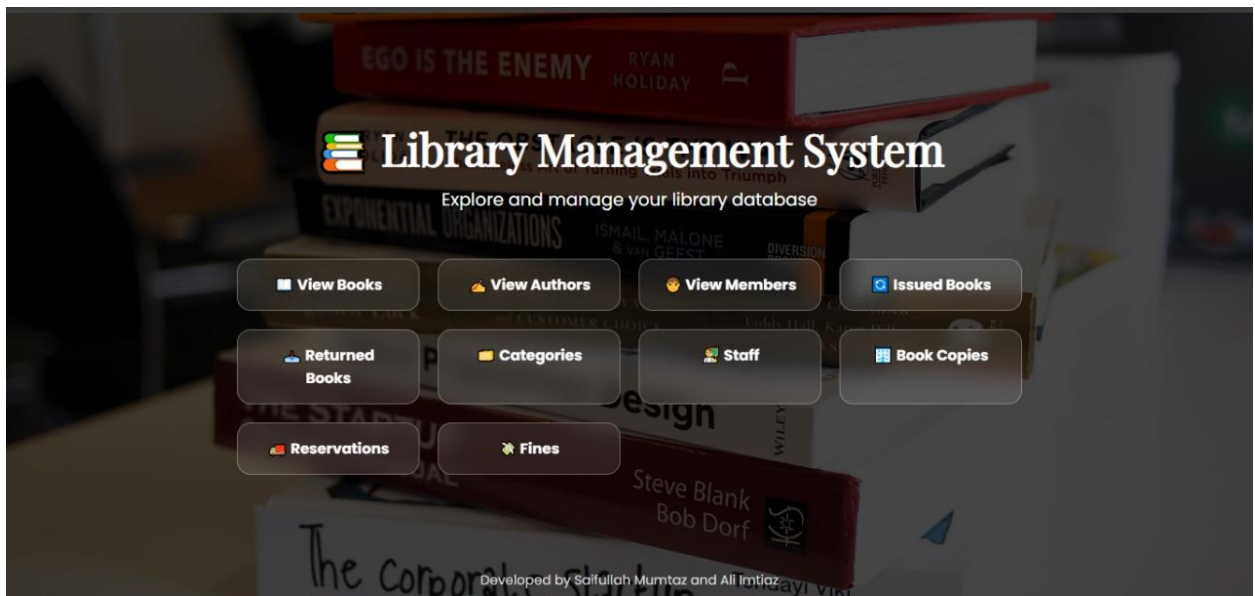
Project Report

Features Overview

- Responsive design
- API-based data handling
- Chart visualization
- Form insertion

Screenshots

HOME PAGE (index.html)



(user.html)

BOOKS TABLE

Book Details

[Show Chart](#)

book_id	title	author_id	category_id
1	Harry Potter and the Chamber of Secrets	1	1
2	1984	2	2
3	The Hobbit	3	1
4	Murder on the Orient Express	4	3
5	The Da Vinci Code	5	4
6	tanoli	2	1
7	the world war	2	2

Project Report

USER FORM TO INSERT NEW DATA

Add New Book

Book ID

Title

Author ID

Category ID

Add Book

USER CHART



Project Report

Conclusion

This project enhanced our understanding of database management, system integration, and user-friendly interface design for efficient library operations.

Future Scope

- User Login & Roles (Librarian/Student)
- Admin Control Panel
- Book Management (Add/Edit/Remove)

References

- Bootstrap Docs
- Chart.js Docs
- W3Schools
- Draw.io