

Library Management System

Project Presentation

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Introduction

- ▶ A Library Management System is software used to manage daily operations of a library.
- ▶ Helps track books, students, issue/return records
- ▶ Provides quick search for books and members
- ▶ Aim: Make the process fast, easy, and digital

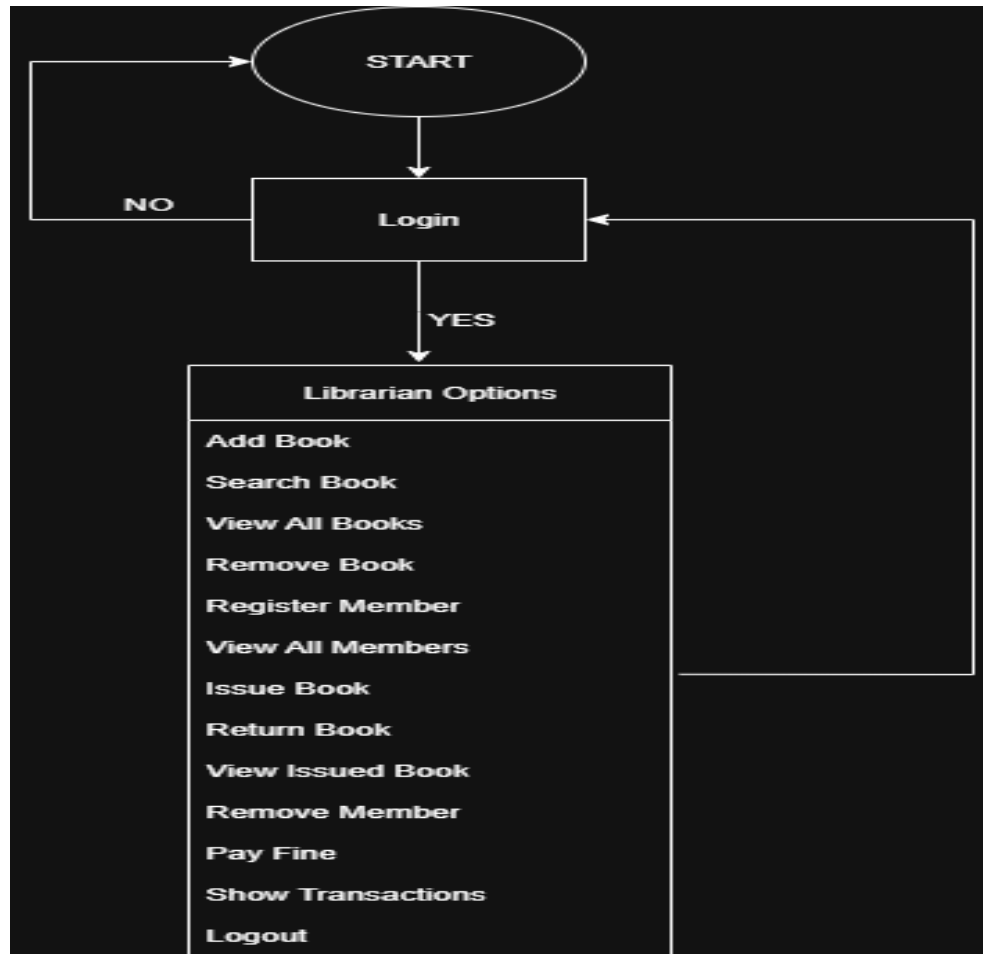
Objectives

- ▶ - Maintain records of books efficiently
- ▶ - Easy issuing and returning of books
- ▶ - Avoid manual errors
- ▶ - Save time for students and librarian

Tools & Technology Used

- ▶ - Programming Language: Python
- ▶ - Database: File Handling (Text files)
- ▶ - Concepts Used:
 - ▶ Validation
 - ▶ Exception Handling
- - Editor: VS Code

System Design / Flow



Features

- ▶ - Student registration
- ▶ - Add / Delete / Update Book or Member
- ▶ - Search books by book id
- ▶ - Issue and return book with due date
- ▶ - View All Books or Members Details
- ▶ - Pay Fine
- ▶ - Show Transactions

Results

- ▶ - Faster and efficient library work
- ▶ - Accurate records maintained
- ▶ - Easy to find available books or members
- ▶ - Time saving for librarian & students

Future Scope

- ▶ - Online access for students
- ▶ - Mobile app integration
- ▶ - Auto email/SMS reminders for due dates
- ▶ - Cloud Database Integration

Conclusion

- ▶ - Successfully manages library
- ▶ - Reduces manual work & increases efficiency
- ▶ - Provides a user-friendly interface

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Thank You