PROJECT 5: READIFY – Mini Library Tracker

Description

A smaller version of an advanced library system. Tracks books, members, issues, returns, fines, and popular titles.

 Scenario

Libraries often need a lightweight way to track basic operations and member borrowing limits.

Menu

===================================== READIFY - Simple Library Tracker =====================================

1. Add New Book
2. Register Member
3. Issue Book
4. Return Book
5. Calculate Fine
6. Add Member to Waitlist
7. View Member Summary
8. View Popular Books
9. View All Books in Library
10. Exit

Enter your choice:

Functions Needed

def add_book(isbn, title, author, genre, copies) def register_member(member_id, name) def issue_book(member_id, isbn) def return_book(member_id, isbn, return_date) def calculate_fine(issue_date, return_date) def add_to_waitlist(member_id, isbn) def view_member_summary(member_id) def get_popular_books() def view_all_books()

Sample Output

=== MEMBER SUMMARY === Member: John (LM01) Books Issued: 2 Pending Fines: 50 Favorite Genre: Fiction Most Borrowed Book: "The Alchemist"

Edge Cases

Issuing book when no copies left Returning before issuing Multiple waitlist entries Fine not clearing properly