

Graded Mini Project: Part A: City Library Management System

Problem Statement

A community library wants a small program to manage its daily operations. Your task is to create a system that can store books, track members, and generate useful insights.

Requirements

1. Book Records

- Each book has: Book ID, Title, Author, Genre, Availability (Available/Issued).
- The system should allow adding new books and updating availability when issued/returned.

2. Member Records

- Each member has: Member ID, Name, Age, Contact Info.
- A member can borrow multiple books, but only if the book is available.

3. Borrow & Return System

- When a member borrows a book:
 - Update book availability.
 - Record the transaction in a borrow log.
- When a book is returned:
 - Update availability again.

4. Reports & Queries

- Show all available books in a given genre.
- List of members who have borrowed books.
- Search for a book by title or author.
- Display the most popular genre (based on issued books).

5. Functions & Logic

- The system should be broken into reusable parts (for example: adding a book, issuing a book, searching, etc.).
- Include clear conditions (e.g., prevent issuing a book if already borrowed).