**Java Library Management System**

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This is a simple Java library management system that allows librarians to manage books and members, and members to borrow and return books.

**Librarian Menu**

1. Add Book

2. Remove Book

3. Register Member

4. Remove Member

5. List Available Books

6. List Members

7. Back to Main Menu

**Member Menu**

1. Available Books

2. List My Books

3. Issue Book

4. Return Book

6. Back to main menu

I have made 4 classes in my code:

1)**Book class**

Represents a book with properties such as title, author, ID, total copies, available copies, and issued status.

2)**Member class**

Represents a library member with properties such as name, ID, age, phone number, and a list of borrowed books.

i)addBorrowedBook(Book book): Adds a book to the list of books borrowed by the member.

ii)removeBorrowedBook(Book book): Removes a book from the list of books borrowed by the member.

3)**library class**

i)addBook(Book book): Adds a book to the library's book list.

ii)removeBook(int bookId): Removes a book from the library's book list.

iii)registerMember(Member member): Registers a member in the library.

iv)removeMember(int memberId): Removes a member from the library.

v)findBookById(int bookId): Finds a book by its ID.

vi)findMemberById(int memberId): Finds a member by their ID.

vii)findMemberByPhoneNumber(String phoneNumber): Finds a member by their phone number.

4)**main class**

i)librarianMenu(): Displays the librarian menu and handles librarian-related actions.

ii)memberMenu(): Displays the member menu and handles member-related actions.

iii)addBook(): Allows a librarian to add books to the library.

iv)removeBook(): Allows a librarian to remove books from the library.

v)registerMember(): Allows a librarian to register new library members.

vi)removeMember(): Allows a librarian to remove library members.

vii)listAvailableBooks(): Displays a list of available books.

viii)listMembers(): Displays a list of all library members.

ix)issueBook(Member temp\_mem): Allows a member to borrow a book.

x)returnBook(Member temp\_mem): Allows a member to return a borrowed book.

xi)listMyBooks(Member temp\_mem): Displays a list of books borrowed by a member.