Library Management System

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Data Structures Used:

1. Binary Search Tree

2. File Organisation

3. Hash Maps

Objective:

Our main objective in this project is to implement Library Management System wherein students (student's perspective)can issue & or return books . Admin/librarian (admin's perspective)can :

1.Add book

2.Print books

3.Delete book

4.Update book

5.Print books in Inorder

6.Display Tree

Flow of Program:

- Admin must login to handle the accounts where the username and password is already set.
- Admin can add ,delete,update books.
- A student can login by entering his Id and has a choice to issue or return a book.
- At a time student cannot issue more than 2 books
- If a student misses a due date for returning the book then he has to pay a particular amount of fine.

Applications:

- It enhances the efficiency of both the library and the librarians.
- It also enables librarians to easily catalogue books and keeps proper records of issued , reissued and returned.
- Automatic fine fees calculation is enabled.
- Inventory and stock management.