Database Systems Lab

SESSION 6

Library Management System Application

In this lab session, you will be delivering a complete library management system. The application should support following functionality in menu driven approach :

1.Add book
2.Add student
3.Delete Book
4.Delete Student
5.Issue Book
6.Search Book by isbn
7.Search Book by title
8.Search student by rollno
9.Search student by name
10.Exit

Constraints :

1.All the above functionalities related to Book and Student should use indexing.
2.delete_book must check the issue data. If the book is already issued then you can not perform delete operation.
3. search_book by isbn and search book by title should print following details :
book details
issue status
and if book is issued then student details holding that book.
4.Issue_book must ensure the book and student both values are available.

General Instructions :

- You can use your previous lab files as a reference to create this application.
- Use given testcase.in file to test your application.
- Your code must support menu-driven functionality.
- You can use simple_tester.c referring to sample_output.pdf to test your functions.
- You must implement libsys_tester.c referring to testcase.in to test your code.

Submission Instructions :
You are expected to upload following files :
1. rollno_libsys.c : This should support only libsys.h implementations
2. rollno_menu.c : This file should support menu driven functionality calling functions from roll_libsys.c

You are expected to demo this project along with your mid term exam for database labs.