PF PROJECT REPORT LIBRARY MANAGEMENT

Project development is not an easy task. It requires corporation and help of various people. We are really thankful to our teacher Syed Zain and Anam Qureshi and sincerely want to inspire feelings of gratitude towards the ones who helped in the completion of this project.

Objective: The objective of this project is to make an easy-to-use and well functioned library management system that can guide, access and work well no matter who the user is.

Functionalities

- 1) Create student, admin and librarian accounts.
- 2) Data and records of students and books can be manually added, updated, deleted and accessed.
- 3) Search for desired books through different methods.
- 4) Stock check
- 5) Fine for late return of the book.
- 6) Display books issued, student records etc.

Concepts and Libraries:

Libraries:

- <iostream>
- <iomanip>

- <string.h>
- <fstream>
- <conio.h>

OOP Concepts included:

- Classes
- Inheritance
- Arrays & Passing
- Set-Get functions
- Objects
- Classes
- Filings
- Pointers

Workflow

There are 3 users in this system, each have different functionalities. Admin can log in for different purposes and is the supreme head able to access, manage, create and delete books & students. Students will be able to make their ids and login to issue & return books plus face fines if exceeding limit of 15 days. Librarian is able to control stock & see student details.

Future Work

Import books from other libraries.

Save data for previously logged in student so that they can save efforts and time needed for accessing the library.

Screenshots

PRESS 1) STUDENT PRESS 2) LIBRARIAN PRESS 3) ADMIN PRESS 4) EXIT ENTER USER:

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ADMIN MENU

PRESS 1) BOOK MENU
PRESS 2) STUDENT MENU
PRESS 3) EXIT

OPTION: 1

Press 1) CREATE BOOKS
Press 2) DISPLAY ALL BOOKS
Press 3) DISPLAY ALL BOOKS
Press 4) MODIFY BOOKS
Press 5) DELETE BOOKS
Press 5) DELETE BOOKS
Press 6) BACK TO MAIN MENU

Option:
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BOOK RETURNED IN HOW MANY DAYS?: 18
YOU HAVE TO PAY A FINE OF: 150

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STUDENT MENU

PRESS 1) ISSUE BOOK
PRESS 2) RETURN BOOK
PRESS 3) EXIT

OPTION:
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PRESS 1) BOOK MENU
PRESS 2) STUDENT MENU
PRESS 3) EXIT

OPTION: 2

Press 1) CREATE STUDENT RECORD
Press 2) DISPLAY ALL STUDENTS RECORD
Press 3) DISPLAY SPECIFIC STUDENT RECORD
Press 4) MODIFY STUDENT RECORD
Press 5) DELETE STUDENT RECORD
Press 6) BACK TO MAIN MENU

Option: 2
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MEMBERS:

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