User Documentation: Library system

The library system is interface through a command line terminal environment.

The library system operates on three authority levels: student, librarian, and manager.

Through the student menu a user can check out a book, return a book, extend the due date of a currently checked out book, reserve a book, view their current checkouts, and search for books in the library.

Through the librarian menu a user can check a book out and check a book in for any student account.

Through the manager menu a user can display the month by month revenue of all books that have been checked out ever, a list of books that are currently checked out, and a list of all overdue books.

All input assumes the use of the current date for checkout and check-in.

---Student Menu---

1. Checking out a book allows the user to first search for a book so that they can see the serial of the book to input when finalizing the checkout.

2. Returning a book shows the user a list of their currently checked out books for ease of access to serial of the book they wish to return when finalizing the check in.

3. Reserving out a book allows the user to first search for a book so that they can see the serial of the book to input when finalizing the reservation.

4. Extending a due date for a book shows a list of currently checked out books to the user so that they have ease of access to the serial for input.

5. Searching for a book allows for partial search of any book in the library by title, author, serial, or genre. Search for a book is used in the reservation and checkout process.

6. Viewing checkouts for the user shows a list of ALL previously checked out books, a list of books that are currently checked out, and warns the user if they have any overdue books (due date is before current date.)

---Librarian Menu---

1. Book checkout allows the user to choose a student by student id and check a book out for them, before inputting a book serial to check out the system asks for a book search for the user to have access to a serial for input.

2. Book return allows the user to return a book for a student by student id, after the id is inputted the system displays a list of books checked out by the user that currently haven’t been turned in.

---Manager Menu---

1. Displaying a month by month overview of how many times a book was checked out during those months, we allow the user to enter the year of interest to see the books checked out for that year.

2. Displays all the books that are currently checked out but not overdue, and the student that the book is checked out by

3. Displays all books that are currently overdue in the system.