CS 6360 DATABASE DESIGN

LIBRARY MANAGEMENT SYSTEM

QUICK START GUIDE

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User Manual

The Library Management system supports the following features.
1. Book Search
2. Add Borrower
3. Book Loan
    1. Checkout
    2. Check-in
4. Fines

Book Search:

Books can be searched by the librarian based on either the Book Id (10 character ISBN) or the Title of the book or the author/s of the book. If no input is given in any of the text input fields, The system prompts the user to enter at least one data.

On clicking submit, the book availability results will be displayed. For displaying books which doesn't have authors, **ISBN** should be entered compulsorily. Otherwise the system won't display the book(s) without author name in the search result.

If a book without author name is searched using ISBN number, then the publisher name of the book will be displayed in the **Author Name Publisher** column.

Add Borrower:

A new borrower can be added to the database using this page. Details such as Social Security Number (SSN), Name, Address, City and State are mandatory to add a borrower. All fields are mandatory in for creating a borrower in to the system. A unique **Card Id** is generated after successful addition of the borrower. If the borrower is already registered in the system, an error message will be displayed.

Book Loan:

Book Loan supports two features – Check-in and Check-out

Check Out:
- Any book can be checked out against a borrower provided, the ISBN, Branch Id and Card No. Limitations for checking out books are as follows
- Each borrower is permitted to borrow at most three books.
- Books can only be checked out if they are available. Books are present in multiple branches and each branch may have many copies for a particular book. If a book is not available in a particular branch, the librarian can search for the same book in other branches.
- The borrower can only check-out books only if he doesn't have any outstanding fines against his Card No.
- For searching the books, a link has been provided in this page to navigate through the search page.

Check In:

- A book can be checked in back to the library using this page. Book Id, card no and the name of the borrower are the details provided. At-least one field is enough to list the books checked out by the borrower. Librarian can check-in multiple books at a time using the check boxes provided in the page.

- The system will not allow the librarian to check-in if the borrower has any outstanding fines in his account. Refresh fine button can be used to double check the fines associated with the borrowers.

Fines:

Users should pay the fines if they check in at a later date than the due date. Card Id and/ or name should be provided for paying the fine. The user can also pay part of the fine amount, it isn't necessary to pay the complete amount at one shot, for he might not want to return one of his books before checking out other books. On searching the fine, a radio button asking whether the user is willing to pay will be displayed. If yes, the user can give the necessary details to pay the bill

Refresh Fine:

This is a periodic task provided to refresh the database to calculate the fine and update the status of the database on a regular basis.