LIBRARY MANAGEMENT SYSTEM

Users - Librarians

Functionalities:

1. **Book Search and check out** –
   - To search for or check-out a book, navigate to 'Book Search' tab. (Default tab selected on load)
   - Enter a keyword in the search box and press enter or click on GO button.
   - Select a book.
     - Note: If a book is already checked out, the select will be disabled.
     - Enter the card id of the borrower.
       - Note: "Card Id" textbox remains disabled until you select a book
     - Click on "Check-out" button to check out
       - Note: "Check-out" button remains disabled until there is a valid book selection and content in "card Id" text box.
   - On success, book will be checked out, result will be refreshed showing that the book is checked out disabling the selection button
   - On failure, an appropriate error message will be displayed.

2. **Book Checkin** –
   - To check-in books, navigate to 'Book Checkin' tab.
   - Enter keywords to search for a book loan.
   - Enter a keyword in the search box and press enter or click on GO button.
   - Select one or more book loans and click on "Check In" button
     - Note: "Check In" button remains disabled until you make a valid selection.
   - On success, books will be checked in, result will be refreshed and checked in books will be removed from the display.
   - On failure, an appropriate error message will be displayed.

3. **Fines** –
   - To manage fines, navigate to 'Fines' tab.
   - Whenever you navigate to fines tab, fines data will be refreshed automatically and becomes up-to date.
   - Alternatively there is a "Refresh Fines" button that you can use to refresh fines data.
   - Loans which are already paid are not included in the results
   - Select a card_id and click on "Show Overdue Loans". Unsettled loans for the selected card_id will be displayed.
     - Note: The 'Show Overdue Loans' remains disabled until a valid selection is made.
   - Select one or more loan ids to settle. Click on "Settle".
     - Note: Loans where the books are not returned are disabled for selection.
     - Note: "Settle" button remains disabled until a valid selection is made.
   - On success, fines will be settled, result will be refreshed and settled loans be removed from the display.

- On failure, an appropriate error message will be displayed.

4. **Borrower Management** –
   - To add a borrower, navigate to "Borrower Management" tab.
   - Enter name, ssn, address and phone number.
   - Validation:
     - All attributes except phone number are mandatory.
     - Ssn should be in a proper format (only 9 digits) and unique.
     - Phone number should be in proper format(only 10 digits)
   - Click on "Add"
   - On success, borrower will be added to the system.
   - On failure, an appropriate error message will be displayed.