Introduction

This paper aims to guide the reader through proper utilization of the library management system.

Book Search
- To search for a book within the library system, enter a keyword into the search field and click the "Search" button. This keyword can be an author name, book name, or ISBN number. The search feature also allows you to search for books through substrings - so entering "Will" as the keyword will result in all books with a title or author containing "Will".
    - Keywords are case insensitive, so "Will" can return "William Shakespeare" and "Freewill".
- The output table will show a book's ISBN, title, author(s), availability and borrowerID (if the book is currently checked out)

Book Check Out

Follow the steps below in sequential order
1. Enter the ISBN number for a book in the system to check out.
2. Enter the Card ID of the borrower checking out the book.
3. A successful checkout is denoted by a success message to indicate a successful book loan.

Book Check In
- Once on the "Check-In Books" page, there will be a textbox for the user to type in to search for a specific book loan.
- User can search book loan with 1 of 3 different attributes:
    - Book ISBN (ISBN-10)
    - Borrower Card ID (format: ID###### or a number)
        - Example: ID000001 or 1
    - Borrower Name (including any substring/part of a name)
- Each search can include either 1 of the above attributes or include all 3 (each separated by a single space) to have a more specific search.
1) Enter the search attribute(s) in the text box, then click the "Search" button or press Enter on the keyboard
    - If there are book loans that exist for the search, a table of book loans will appear below the search bar.
    - Each row will have a select on on the left, corresponding to the 'Select' column.
2) Click on each checkbox to select the book loans that are being checked into.
3) Click the "Check In Selected Loans" button below the table.

4) Page will display the loan ids and check-in time for each newly checked in book loan.

Create a Borrower
- Fill out the respective fields on the page
  - Name [ex. "John Doe"]
  - SSN [ex. "123456789"]
  - Address [ex. "123 Fake Street"]
  - Phone (optional) [ex. "(123) 456-7890"]
- Clicking the "Create Borrower" button will create a new borrower into the database and display a success message to indicate so.
  - Should any conflicts with adding a new borrower occur, the system will display a red error message with the issue.

Manage Fines
- Enter Card ID of borrower to look up
  - A dashboard will be presented for viewing and managing current loans and accumulated fines.
- Current loans
  - Any books that haven't been checked back in will be listed in this table.
  - Books can be checked in through this panel using the "Check in" button on the side.
- Borrower's fines
  - Books with accumulated fines will appear within this panel to view and pay overdue loans.
- Paying a fine
  - Ensure that the overdue book is checked in, and then click the "Pay" button to clear the outstanding fines for that loan.
  - Fines can be cleared all at once for the borrower by navigating to the *Pay Fines* panel and clicking on the "Pay outstanding fines" button.
    - All overdue books must be checked back in.