USER MANUAL

Home Page:

Home Page is the first page that is displayed when the system is opened. This provides 5 options for the user namely Book Search and Availability , Borrower Management , Check- Out books , Check-In books, View and pay fines.

Book Search and Availability:

This page contains a single search box and a button. The user can enter any substring of title of the book, the name of the author or the ISBN number. It searches for the books that matches the given input and displays the results in a tabular form. The table displays information about the ISBN , book title, book authors, availability.

Borrower Management:

This is used to add the borrowers. Each borrower is required to provide a SSN number, name, email , address and the phone number. A borrower with the same SSN cannot be added more than once.

Check-Out books:

This page is used to search for a particular book in the same way as the book search and availability option and displays the result in tabular form . It provides an option to check-out one book at a time. If the book is available, then it asks for the card number of the borrower. If the borrower has borrowed less than 3 books, then the book will be issued. Otherwise, book will not be issued and an error would be displayed. In a similar way, an error would be displayed when attempted to check-out an unavailable book.

Check-In :

This allows user to the check-in the borrowed books. This can be done by searching using card number of the borrower, ISBN, title of the book, loan id or the name of the borrower. An option for check-in of one book at a time is provided.

View Fines:

This allows for the viewing and payment of fines for a user. It provides 4 options for the user. By default, this page displays the total fines of each individual card holder.

1. **View Fines**: This displays the total fine of the card holder that is given as an input(if provided). Otherwise it provides the total fine of all users.
2. **Update Fines**: This option is used to update the fines of the books which are over due and are not yet returned.
3. **View Fines by Book** : This displays the fine for each book for a given card holder.
4. **View Previously Paid fines** : This displays the fines which are paid by a given card holder.