

ASSUMPTIONS

1. Borrowers should have unique SSN
2. A book can be lent for only 15 days after which fine will be calculated

SYSTEM DESIGN

The database consists of the following tables

1. BOOK
2. BOOK_AUTHORS
3. AUTHORS
4. BOOK_COPIES
5. BORROWER
6. BOOK_LOANS
7. FINES

The application is built in HTML, JavaScript and php along with MySQL.

The functionality of each page is as described below:

Home Page

1. This is just a combination of links to all pages and the display catalog of the library

Search Page

1. On this page search for either one or a combination of ISBN, Book Title or Author. Key in the values and click the Search Button.
2. The values will be filtered in the table. Check the desired book and click on the 'Check Out' button.
3. This page will redirect to the checkout page with ISBN of the book populated in the field.

Check Out Page

1. Enter the ISBN of the book and Card No. of the user and click the Checkout button.
2. This will check out the book for the borrower.
3. If the book is already checked out the system will throw an error.
4. A borrower can at a time have only maximum 3 books checked out. If the borrower tries to check out more than 3 books, the system will throw an error.

Check-In Page

1. Enter the Card No and ISBN of book, finally click the Search button to receive details of checked out books.
2. Select the book to check in and press the Check in button.

Add borrowers page

1. Key In all the required values and click the ADD button.
2. A card Number will be assigned to the New User.
3. Duplicate Users with same SSN will not be allowed.

Fine Page

1. Click the Refresh button before checking the amount.
2. Key in the Card Number to check or pay fine.