

Library Management System

User Guide.

1. Intro

Library Management System provides the basic functionalities of library like

1. Search
2. Check in, check out
3. Add borrower
4. Fines

The screenshot shows the main interface of the Library Management System. It features a header with five columns: ISBN, Book Title, Author, No. of Copies, and Available Copies. Below the header, there is a search section with a text input field labeled 'Enter ISBN/ Title/ Author' and three buttons: 'Search', 'Check In', and 'Check Out'. At the bottom, there are two tabs: 'Search' and 'Others'.

2. Book Search

Search Implementation is supported using substring match. The user can search the books by using a single search field which searches a book by ISBN, Title or Author.

The screenshot shows the search results interface of the Library Management System. It displays a table with the following data:

ISBN	Book Title	Author	No. of Copies	Available Copies
0060163402	The Perfect Murder: Five Gre...	Lawrence Block	0	0
0060198133	Five Quarters Of The Orange	Joanne Harris	1	1
0060929952	Five Fortunes	Beth Gutcheon	1	0
0060958022	Five Quarters Of The Orange	Joanne Harris	0	0
006104363X	The Five Red Herrings	Dorothy L. Sayers	1	0
0140043136	The Bride And The Bachelor...	Calvin Tomkins	1	1
014045022X	Pygmalion : A Romance In Fi...	Dan H. Laurence	1	1
0300080301	Five Days In London, May 19...	John Lukacs	1	1

Below the table, there is a search section with a text input field labeled 'Enter ISBN/ Title/ Author' containing the word 'five' and three buttons: 'Search', 'Check In', and 'Check Out'. At the bottom, there are two tabs: 'Search' and 'Others'.

3. Book Loans

The user can checkout the books based on the availability shown after the search. The user is allowed a checkout for a maximum of 3 books. If the borrow limit reaches 3, then the user needs to return the books that he checked out earlier and proceed for a new checkout. The due date is shown to the user for the books that are checked out by that particular user.

This screenshot shows the 'Check Out' form. On the left is a vertical menu with buttons: 'New User', 'Check Out' (highlighted), 'Check In', and 'Fines'. The main area contains two input fields: 'ISBN *' with the value '0060198133' and 'Card No. * ID' which is empty. A red asterisk with the text '* required' is positioned below the 'Card No. * ID' field. A 'Check Out' button is located below these fields. At the bottom, there is a 'Search' button and a tab labeled 'Others'.

This screenshot shows the 'Check In' form. The left menu is identical to the previous form, with 'Check In' highlighted. The main area has four input fields: 'ISBN', 'Card No. ID' (with the value '001002'), 'First Name', and 'Last Name'. Below the 'Card No. ID' field is a 'Show' button, and below the 'Last Name' field is a 'Check In' button. A table with five columns is shown below the input fields: 'ISBN', 'Card No', 'Borrower Name', 'Loan Id', and 'Fine Amt'. The table body is empty. At the bottom of the table area, the text 'No books pending to be checked-in or Entered Values are not valid' is displayed. The bottom navigation bar includes a 'Search' button and a tab labeled 'Others'.

4. Account Creation

A new borrower can create an account by providing the details like Name, SSN, Address, Phone number etc. When the user clicks the 'Add New Borrower' button, a new card number will be generated when a new borrower is registered successfully. Once a borrower is registered, he/she will not be allowed to register again in the system.

The screenshot shows a web application window with a sidebar menu on the left containing 'New User', 'Check Out', 'Check In', and 'Fines'. The 'New User' option is selected. The main area contains a registration form with the following fields: 'First Name *', 'Last Name *', 'SSN * (xxx-xx-xxxx)', 'Address *', 'City *', 'State *', 'Email', and 'Phone'. Each field is represented by a text input box. An 'Add' button is located at the bottom right of the form area. A red asterisk with the text '* required' is positioned near the 'Add' button. At the bottom of the window, there is a search bar with the text 'Search Others'.

5. Fines

The details of fines for different books for a particular borrower can be known by entering the Card no. and clicking the 'Get Details' button. The total fine that a particular borrower has to pay can be displayed by clicking the 'Total Fine' button. The user can pay the fine for a particular borrower and update the fines table by clicking the 'Pay Fine' button. Tick the 'Show Previously Paid' checkbox to get all the fines history for a particular user.

The screenshot shows a web application window with a sidebar menu on the left containing 'New User', 'Check Out', 'Check In', and 'Fines'. The 'Fines' option is selected. The main area contains a form for managing fines. It includes a 'Card No.' label, an 'ID' input field with the value '001002', a 'Get Details' button, and a checkbox labeled 'Show Previously Paid Fines'. Below this is a table with the following columns: 'Loan Id', 'ISBN', 'Fine Amt', 'Paid', and 'Book Returned'. The table is currently empty. Below the table are three buttons: 'Pay Fine', 'Total Fine', and 'Update'. At the bottom of the main area, the text 'You dont have any Book Loans' is displayed. At the bottom of the window, there is a search bar with the text 'Search Others'.