

Software Documentation

Introduction:

This is a library assistant called LYHF-LibAssist, it can help librarians manage common library management tasks, including user registration, book searching, shelving books, checking out books, and returning books. Users can also browse the books in the library and see detailed information about each book selected.

Installation & Configuration:

Link to webapp: <http://127.0.0.1:5000/>

Link to repository: <https://github.com/Haydes/LYHF-LibAssist>

For 127.0.0.1:5000, 127.0.0.1 is localhost, The port number is 5000. The IP just be available when the whole program run. Others' samples set up the server, but we use local. If the port number conflicts with others, you can modify the port on line 135 of the main function.

Usage for different types of users

Registered Users

Checkout

Users can checkout book using title or ISBN. When we click the checkout button, the interface will turn to the page that show the book's information including Title, Author, Publication Date and ISBN.

Registration

In order to a user of this LYHF-LibAssist, you need to create a new account. You can click the Register button in Login interface. For account creation, you need to provide username and password. If the username is already exist, it will show that the account is exist. Some of the sign and symbol are not available.

Login

In the Login Page, you can see the login button. If you already have user account, you can fill in username and password to login.

Logout

Logout button is showed on the Library Assistant Main Page, it is under the button "list available books". If you want to logout, you can click "logout" button to return to the login page.

Return book

If user already borrow a book, you will see the sentence "You have a checked out book" in Library Assistant Main Page. The "Return Book" button is in the first line of buttons. You can click the button to complete the process of return book.

Librarians

Librarians have access to all the functionalities of general registered users. And besides that librarians have more privileges, such as adding on the shelves. (Notice that Librarians account is different from user's account.) Librarian's Library Assistant Main page is similar to User's Main Page. The only different now is "librarian control panel" button.

Add books

If librarian need to add a new book. Librarian can use Librarian account to login and click “librarian control panel” button to transfer to “Add Book” page. The page show the information about title, author, ISBN and publication date. Librarian can fill these four blanks to complete “Add Book ” process. Then you can click “Add Book” button to return to the book list, you can find the updated book in list. “Return to Mian Page” button can make sure you return to the main page if librarian don’t want to add a new book. Notice that ISBN number must be the 10 digit number.

Misc Notes

1. Currently, librarians can only add book to list but they cannot remove book from list.
2. In the completed function, there are some details need to improve like interface optimization and restriction about creating account and book information(like Publication Date must be number , it cannot be other symbols.)
3. Some use case functionalities such as messaging, search and more detail will be implemented in the next iteration.

To test User Features:

Username: Jack

Password: ilovefruits

Username: Jill

Password: iloveapples

To test Librarian Features:

Username: Haydes

Password: 111

Test website : <http://127.0.0.1:5000/> (Before click the website, you need to make sure the code already run!)