

CptS 583 Software Quality

Spring 2021

Project Deliverable 2-2

LA583

1. Introduction

This system is a library assistant program that can be used on the online web. Members can search the books by title, author, subject, add to cart and check out books, reserve books, get book recommendations, and receive notifications to return. Librarians can search the book and add, update, and remove the book.

2. Installation & Configuration

Link to repository: <https://github.com/sqrlmn/LA583>

This software is designed for Windows. Installation is required before using it.

For our implementation it is a Visual Studio Web Form application. There is a .exe file in the debug folder to run it or if you open the solution file in the Library Assistant folder you can open the solution and run it from Visual Studio. The program will automatically connect to our amazon database.

The user just selects setup.exe and installs the application.

3. Usage for different type of users

User

New user can use only two functions registration and log in

Registration

Member registration is required to use the library assistant system. New users can do this through(click) the Create new account button at the bottom of the program. In order to register as member, guests need to write eight informations such as user name, password, confirm password, first name, last name, address, email address, and phone number

Login

Members and librarians are able to log in using their username and password. Then by selecting log in they are able to get to the main screen, where they are able search for a book, checkout, and edit their profile. (We have SHA512 for the password).

Member

Search

As a member you are able to search for books based on author, genre, or title. You are able to see details of the book by double clicking on it. In the book detail page you are able to add a book to your cart or reserve it if the book is currently not available.

Book Details

As a member you can see all the information of a book including author, genre, amount of pages, copies available, title, and the rating.

Checkout

As a member when you checkout at the library, the system removes the cart from the database and the member will have to go physically pick up the books.

Reservation

As a member you are able to reserve a book when the book is not available due to all the copies being rented already. This will create an alert for when the book is back in stock to notify the user.

Get alert

As a member when you checkout a book or reserve a book the alert system is called and will create reminders for you. When the due date of the book is the day of it will pop up a window to let you know. When the book you reserved is now available a window will pop up alerting you that the book is ready for pickup.

Edit account information

As a member you can change your information(password, full name, email, address, phone number)

This is available on the main form right after you login.

Add to cart

As a member they can select the book from main, a pop will display the book details. The user can press on the add to cart from the book details page. A pop up will indicate that the book had been added to the cart.

Rate book

As a member or a librarian, they can rate the book on the book detail page. This is done by selecting a value in the drop down and clicking the rate button, the user can rate the book. A message box "thank you for rating "book title" a ___ out of 5" to indicate the user have rated the book.

Librarian

Search

As a librarian you are able to search for books based on author, genre, or title. You are able to see details of the book by double clicking on it. In the book detail page you are able to add a book to your cart or reserve it if the book is currently not available.

Book Details

As a librarian you can see all the information of a book including author, genre, amount of pages, copies available, title, and the rating.

Add/Update/Remove Book

As a librarian you can add new books, update book information, and remove book information from the system.

Return Book

As a librarian you are able to return a book. The librarian will input the ISBN and the username of the user that had the book checked out. The librarian has to manually input the data into the system.

Edit account information

As a librarian you can change your informations (password, full name, email, address, phone number)

Misc Notes

- **The user will be notified by a popup window when a book reservation they had becomes available for pick up.**
- **The user will be notified by a popup window the day that a book they checked out is due.**
- **Some functionalities that are not currently implemented are book recommendation and book conditions,review book and availability. These will be implemented in the next iteration.**

Test User features:

ID : a

PW : a

Test Librarian features:

ID : b

PW : b