Book Management System

ßAbstract

The book management system is a console based application developed using data structures in C++. This solution has a 2 user approach, customer and admin. Both the customer and admin have individual login or register pages and separate functionalities.

This system allows a customer to search for books sorted by a variety of attributes, purchase books ass well as add an unavailable item to their Wishlist.

The admin interface involves adding or deleting books, viewing catalog and editing book details.

Features

1. Login/Registration option for new users
2. Admin/User option, with different functionality for each.
3. Display of available catalog of books and their attributes such as Name, Author, Publication, Price, Edition, ISBN, etc.
4. Search books option
5. Sort option on the basis of criteria such as New Arrivals, Top-selling, Low-to-High Price, etc.
6. User can purchase multiple items at once, and Billing Summary will be displayed at checkout
7. If an item is unavailable. User can add the item to the Wishlist.
8. In addition, Admin can add new items to catalog/delete/edit description/update availability.

Data Structures

1. Arrays
2. Structures
3. List
4. Linked Lists
5. Map
6. Hashmap
7. Trie

References

1. C++
2. Data Structures in C++

Sources

1. StackOverflow
2. GeeksforGeeks

3. Youtube tutorials

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