

# **Individual Project #2**

Store Front

CSC-17B

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## **Introduction**

[Please note, this project is not complete. I ran into a huge bug with binary file operations in my Admin class and have not progressed much since then, the project is missing the Admin class, User class, and Cart class. My intention is to address this bug and create the rest of the classes so the project is complete and has all the required admin and user login features.]

My Store Front project utilizes OOP and binary file operations to allow admins to create/read/update/delete items from a store and users to read/update/delete items from the store in a shopping cart. The project has a login feature so multiple users are able to have their own shopping cart which is saved to their own unique file that only they have access to.

This project was a lot easier to get started on since I had already worked on the Survey Engine project, I was able to think about how these two projects were similar and went from there.

Where I created a Survey class that contained a vector of pointers to Question objects, this time I created a Store class that contains a vector of pointers to Item objects. Then the Admin object would use binary file input to create a Store object that contains a vector of pointers to Item objects. The User class contains pointers to Item objects which are created from binary file input for the user's own shopping cart.

## **Summary**

### [Github](#)

#### Project Files

1 main.cpp

3 class files: Admin.h, Item.h, Store.h (missing User.h, Cart.h)

1 binary file: Store.dat (missing AdminInfo.dat, UserInfo.dat)

1 binary file per user: userCart.dat

## **Sample Input/Output**

*View Items*

#### STORE ITEMS CURRENTLY IN STOCK

1)  
Item: Black T-Shirt  
Price: \$50.00/each  
In Stock: 300

2)  
Item: White T-Shirt  
Price: \$50.00/each  
In Stock: 400

3)  
Item: Black Hoodie  
Price: \$120.00/each  
In Stock: 200

Total Items in Stock: 3/3

#### *Add an Item*

##### ADD ITEMS

Enter Number of Items: 1  
Item Name: Digital Download  
Item Price: \$2.99  
Number in Stock: 500

1)  
Item: Black T-Shirt  
Price: \$50.00/each  
In Stock: 300

2)  
Item: White T-Shirt  
Price: \$50.00/each  
In Stock: 400

3)  
Item: Black Hoodie  
Price: \$120.00/each  
In Stock: 200

4)  
Item: Digital Download  
Price: \$2.99/each  
In Stock: 500

#### *Update an Item*

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Enter Name of Item to Update: Black T-Shirt
    Item: Black T-Shirt
    Price: $50.00/each
In Stock: 300

Enter What You Would Like to Update for This Item
1) Name
2) Price
3) Number in Stock
0) Cancel Item Updates
2

UPDATE PRICE
Enter New Price: 45
Enter What You Would Like to Update for This Item
1) Name
2) Price
3) Number in Stock
0) Cancel Item Updates
0

CANCEL SURVEY UPDATES
1)
    Item: Black T-Shirt
    Price: $45.00/each
In Stock: 300

2)
    Item: White T-Shirt
    Price: $50.00/each
In Stock: 400

3)
    Item: Black Hoodie
    Price: $120.00/each
In Stock: 200

4)
    Item: Digital Download
    Price: $2.99/each
In Stock: 500

```

## Description

### Flowcharts



