

Sabath Rodriguez
April 21, 2024
CSC500: PRINCIPLES OF
PROGRAMMING

Portfolio Milestone 2

This assignment was quite challenging and far more challenging than previous assignments. A lot of the complexity came from the amount of hidden detail in the functions. For example, in the `get_num_items_in_cart()`, I almost missed the fact that we are supposed to iterate through all items in the cart and count the quantities of each item and not just return the numbers of items in your cart array. Remembering how to modify items in lists or dictionaries was hard to remember so I had to reference the textbook quite a bit during this assignment (Lysecky & Vahid, 2019, section 6). There was also much more complexity in writing out the menu for the user. Lastly, the biggest challenge was all the minute details in checking for the validity of values being used before using them, an example of this would be the constructor, we want the user to be able to input their name, but the problem arises when they leave the input as blank. That is a simple example but there were many more. Overall, I really enjoyed this assignment, it really made me think and be careful about what I was doing.

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Output:

```
Choose an option:a
Enter the item name:apple
Enter the item description:honey crisp
Enter the item price:2
Enter the item quantity:4
MENU
    a - Add item to cart
    r - Remove item from cart
    c - Change item quantity
    i - Output items' descriptions
    o - Output shopping cart
    q - Quit

Choose an option:a
Enter the item name:water
Enter the item description:spring water
Enter the item price:2
Enter the item quantity:10
MENU
    a - Add item to cart
    r - Remove item from cart
    c - Change item quantity
    i - Output items' descriptions
    o - Output shopping cart
    q - Quit

Choose an option:o

OUTPUT SHOPPING CART
sabath's Shopping Cart - april 21, 2024
Number of Items: 14

apple 4 @ $2.00 = $8.0
water 10 @ $2.00 = $20.0

Total: $28.0

MENU
    a - Add item to cart
    r - Remove item from cart
    c - Change item quantity
    i - Output items' descriptions
    o - Output shopping cart
    q - Quit

Choose an option:█
```

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References

Lysecky, R., & Vahid, F. (n.d.). Module 6: List and Dictionaries in CSC500: Principles of Programming. essay, ZyBooks.