



PROJECT C++

SUBMITTED TO:

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PROJECT NAME:

Shopping Cart System

DEPARTMENT:

Software Engineering (SE-2024)

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PROPOSAL FOR SHOPPING CART SYSTEM

➤ INTRODUCTION:

Shopping has become a big part of our everyday life, especially with online stores. To make online shopping easy, a shopping cart system helps customers add, remove, and view items they want to buy. It also calculates the total price, applying discounts and taxes, to give the final amount to be paid.

This program is a simple shopping cart system built using C++. It allows users to perform important tasks like adding items to the cart, removing items, and checking the total price. It's designed to be easy to use and shows how basic programming concepts can solve real-world problems. This program is also a good starting point for building bigger and more advanced shopping applications

➤ METHODOLOGY:

1. Storing Items and Prices:

- The program uses two arrays: one to store the names of items and another for their prices.
- A constant (**max_item**) limits the cart to a maximum of 10 items to keep things simple

2. Simple Functions for Each Task:

The program is divided into small functions, each handling one task. This makes the program easy to read and manage. These functions include:

- **addItem:** Adds an item and its price to the cart (if there's space).
- **removeItem:** Deletes an item from the cart and adjusts the list.
- **displayCart:** Shows all items in the cart with their prices.
- **calculateTotal:** Adds up all the prices in the cart.
- **applyDiscount:** Applies a 10% discount to the total.
- **applyTax:** Adds a 7% tax to the total price.

3. User-Friendly Menu:

- A menu is displayed so users can choose what they want to do (like adding or removing an item).
- Users make their choice by entering a number, and the program performs the selected task.

4. Calculating Final Price:

- The program calculates the total price of all items in the cart.
- It subtracts a discount, then adds tax, and shows the final amount clearly.

5. Simple and Flexible:

- The program is easy to use and understand. It can be improved later, for example, by saving the cart data to a file or adding more features like item quantities or categories.

➤ CONCLUSION:

The Shopping Cart System is a simple yet practical program that demonstrates how basic programming concepts can be applied to solve real-world problems. By allowing users to add, remove, and view items, as well as calculate the total cost with discounts and taxes, it provides a realistic simulation of a core feature in e-commerce platforms.

In conclusion, this system showcases how straightforward programming techniques can create functional and meaningful applications, offering valuable insights for learners and serving as a stepping stone for more complex projects in the future.