Programming Project / C++ - Store Management & Interaction System -

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I. Task Description

Student 1 is responsible for managing the store:

- Adding, deleting, modifying products (price, quantity)
- Viewing orders

Student 2 is responsible for interacting with the store:

- Adding, modifying, deleting products in/from a shopping cart
- Creating an order when purchasing the cart

II. Data Structures Used by the Team

- Store: vector stock, vector orders
- Cart: vector cart_products
- Product:
std::string barcode;
std::string name;
int quantity;
double price;
- Order:
std::vector products;
Date order_date;

III. File Structure

Stock.txt

A file where details about the stock products will be stored in the form:

<number of products>

oduct1 price>

Orders.txt

A file where details about placed orders will be stored:

<order1 date>

<order1 product barcode list>

<order2 date>

<order2 product barcode list>

Shopping_Cart.txt

A file where Student 2 will store the shopping cart details:

oduct1 barcode> oduct1 quantity>

oduct2 barcode> duct2 quantity>

IV. Interacting with Executables

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Application 1 will offer the following options:
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```
./app_1.exe view_stock_products
./app_1.exe add_product <barcode> <name> <quantity> <price>
./app_1.exe delete_product <barcode>
./app_1.exe modify_product <price | quantity> <barcode> <new_value>
./app_1.exe view_orders
```

Application 2 will offer the following options:

```
./app_2.exe view_cart
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./app_2.exe add_product <barcode> <quantity>

./app_2.exe modify_product <barcode> <new_quantity>

./app_2.exe delete_product <barcode>

./app_2.exe purchase