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

I. Task Description

Andrei Herlo is responsible for managing the store:

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

Molete Denis 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

The following classes will be used:

- Product: string barcode, string name, int quantity, double price
- Date: int day, int month, int year
- Order: Product[] products, Date date

III. File Structure

The following files will be used:

• stoc.txt

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

iproduct1 barcode; iproduct1 name; iproduct1 quantity; iproduct1 price; iproduct2 barcode; iproduct2 name; iproduct2 quantity; iproduct2 price;

• comenzi.txt

A file where details about placed orders will be stored:

jorder1 date¿
jorder1 product barcode list¿
jorder2 date¿
jorder2 product barcode list¿

• cos_cumparaturi.txt

A file where Molete Denis will store the shopping cart details: product1 barcode; product1 quantity; product2 barcode; product2 quantity;

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IV. Interacting with Executables

Application 1 will offer the following options:

- ./app_1.exe view_stock_products
 To view all available products in stock
- ./app_1.exe add_product <barcode> <name> <quantity> <price> To add a product to stock
- ./app_1.exe delete_product <barcode>
 To delete a product from stock
- ./app_1.exe modify_product <price | quantity> <barcode> <new_value> To modify either the quantity or price of a product
- ./app_1.exe view_orders
 To view placed orders

Application 2 will offer the following options:

- ./app_2.exe view_cart
 To view the shopping cart
- ./app_2.exe add_product <barcode> <quantity> To add a product to the shopping cart
- ./app_2.exe modify_product <barcode> <new_quantity> To modify the quantity of an existing product in the cart
- ./app_2.exe delete_product <barcode>
 To remove a product from the cart
- ./app_2.exe purchase
 To place an order based on the shopping cart