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

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>
<product1 barcode> <product1 name> <product1 quantity> <product1 price>
<product2 barcode> <product2 name> <product2 quantity> <product2 price>
...

comenzi.txt
A file where details about placed orders will be stored:
<order1 date>
<order1 product barcode list>
<order2 date>

...

cos_cumparaturi.txt
A file where Student 2 will store the shopping cart details:
<product1 barcode> <product1 quantity>
<product2 barcode> <product2 quantity>

...

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