Programming Project / C++ – Vehicle Buying/Selling System-

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I. Task Description

Student 1 is responsible for managing the :

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

- Viewing orders

Student 2 is responsible for interacting with the store:

- Manage shopping cart (add, modify, delete products)

- Finalize and place orders based on cart contents

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>

<order2 product barcode list>

...

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