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

#### Students:

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## I. Task Description

## Student 1 (Store Manager):

- 1. Adding products to stock
- 2. Deleting products from stock
- 3. Modifying product price or quantity
- 4. Viewing placed orders

## Student 2 (Cart & Purchase):

- 1. Adding products to shopping cart
- 2. Modifying quantities in the cart
- 3. Deleting products from the cart
- 4. Creating an order by purchasing the cart

#### II. Data Structures Used

#### Product

- string barcode
- string name
- int quantity
- o double price

#### Date

- int day
- int month
- o int year

#### Order

- Product[] products
- Date date

#### **III. File Structure**

```
1. stoc.txt
```

## Stores stock product details:

```
<number of products>
```

<barcode> <name> <quantity> <price>

...

# 2. comenzi.txt

# Stores placed orders:

<order1 date (dd mm yyyy)>

<barcode1> <barcode2> ...

<order2 date>

<barcode1> <barcode2> ...

3. cos\_cumparaturi.txt

Stores shopping cart contents:

<barcode> <quantity>

<barcode> <quantity>

## IV. Executable Usage

## **Application 1 (Store Management)**

app1.exe view\_stock\_products

## View all products in stock

app1.exe add\_product <barcode> <name> <quantity> <price>

# Add a new product

app1.exe delete\_product <barcode>

## Delete a product by barcode

app1.exe modify\_product <price|quantity> <barcode> <new\_value>

# Modify price or quantity

app1.exe view\_orders

View all orders

# **Application 2 (Shopping Cart & Purchase)**

app2.exe view\_cart

View cart contents

app2.exe add\_product <barcode> <quantity>

Add item to cart

app2.exe modify\_product <barcode> <new\_quantity>

Change cart quantity

app2.exe delete\_product <barcode>

Remove item from cart

app2.exe purchase

Place an order and clear the cart