

# Store Management & Interaction System

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## I. Task Description

This project implements a store management and customer interaction system using C++. The responsibilities were divided as follows:

- **Eduard Ciulpan (Student 1)** – Manages the store:
  - Add, delete, and modify products (price, quantity)
  - View placed orders
- **Alexandru Baba (Student 2)** – Interacts with the store:
  - Add, modify, and delete products in/from the shopping cart
  - Place an order from the cart

## II. Data Structures Used

The following C++ classes were defined and used:

- **Product:** string barcode, string name, int quantity, double price
- **Date:** int day, int month, int year
- **Order:** vector<Product> products, Date date

## III. File Structures

The system communicates using three files:

### **stoc.txt**

Stores the current stock of products:

```
<number of products>  
<barcode> <name> <quantity> <price>  
...
```

### **comenzi.txt**

Stores placed orders:

```
<date>  
<list of barcodes>  
...
```

### **cos<sub>c</sub>umparaturi.txt**

Stores the shopping cart before purchase:

```
<barcode> <quantity>  
...
```

## **IV. Application Commands**

### **Application 1 (Store Management) – Eduard Ciulpan**

- `./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 (Store Interaction) – Alexandru Baba**

- `./app_2.exe view_cart`
- `./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`