Programming Project / C++ – Book Store Management & Interaction System –

Student 1: Razvan Nagiu

Student 2: Andrei Miroiu

I. Task Description

Student 1 is responsible for managing the book store:

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

Student 2 is responsible for interacting with the store:

- Adding, modifying, deleting books 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 bookName, string author, 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:

stock.txt

orders.txt

A file where details about placed orders will be stored:

<order1 date>
<order1 product barcode list>
<order2 date>
<order2 product barcode list>
...

cart.txt

A file where Student 2 will store the shopping cart details: <pre

...

IV. Interacting with Executables

Application 1 will offer the following options: ./bookstore_admin.exe view_stock_products
To view all available products in stock

./bookstore_admin.exe add_product <barcode> <name> <quantity> <price> To add a product to stock

./bookstore_admin.exe delete_product <barcode>
To delete a product from stock

./bookstore_admin.exe modify_product <price | quantity> <barcode> <new_value> To modify either the quantity or price of a product

./bookstore_admin.exe view_orders
To view placed orders

Application 2 will offer the following options: ./bookstore_ cart.exe view_cart

To view the shopping cart

./bookstore_ cart.exe add_product <barcode> <quantity> To add a product to the shopping cart

./bookstore_ cart.exe modify_product <barcode> <new_quantity> To modify the quantity of an existing product in the cart

./bookstore_ cart.exe delete_product <barcode>
To remove a product from the cart

./bookstore_ cart.exe purchase
To place an order based on the shopping cart