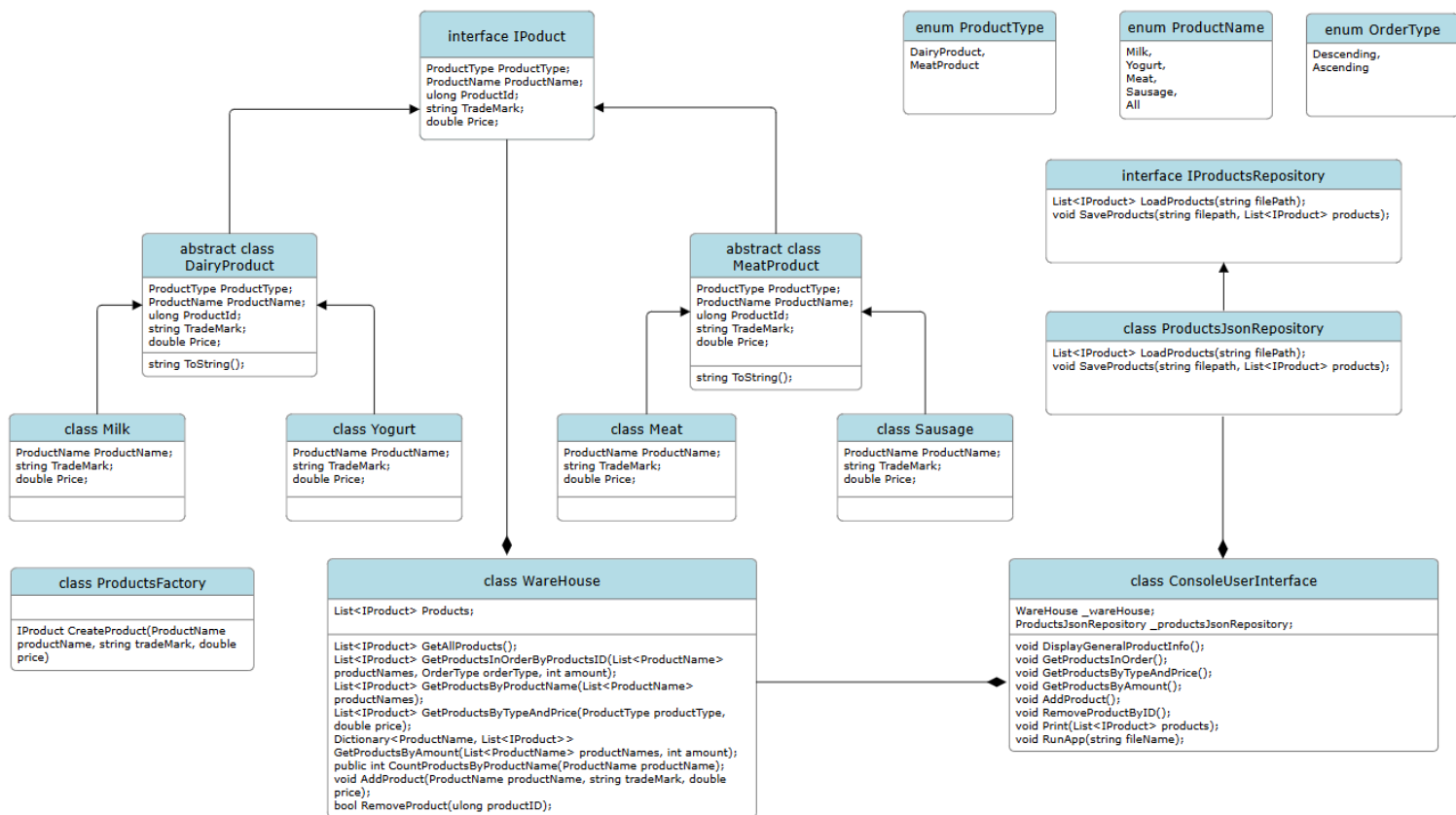


# WAREHOUSE OF DAIRY AND MEAT PRODUCTS

## Overview

The “WAREHOUSE” application is an application that works with different types of products. It stores and manages information about products in the warehouse. It can add new products, delete products, save and load products from the file, and sort and display product information depending on the condition.

## 1. Class Diagram:



## **2. Application workflow**

The application starts with loading and displaying on the main screen general information about all the products we stored in the warehouse. The information should be read from the file if it exists and has any products in it.

Then the application prints:

### Products in the Warehouse:

#### ❖ Dairy products

➤ Milk: 5

➤ Yogurt: 3

#### ❖ Meat products

➤ Sausage: 7

➤ Meat: 4

1. Display specific amount of Products in selected order of Product ID
2. Display a list of Products with a price higher than entered
3. Display a list of Products amount of which is bigger than entered
4. Add Product to the warehouse
5. Remove Product from the warehouse by ProductID

*Choose one of menu item, or type EXIT to save all changes and close the application*

After, the user can choose from the menu what he wants to do next.

If the user chooses 1 the app will display information about the specific amount of products in order of descending or ascending ProductID or or without sorting.

### Example:

1. Milk [Brand]. [amount]. [price]. [ID]
2. Sausage[Brand]. [amount]. [price]. [ID]
3. ...
10. Meat[Brand]. [amount]. [price]. [ID]

If the user chooses 2 the app will display information about the Dairy products or Meat products, with the price higher than entered. Before seeing that

information, the user has to choose what type of product he wants to see information about. After the user enters the price of the products.

```
Get products by product type and with the price lower than entered:

Select product type.

Available product's types:

1. Dairy products.
2. Meat Products.
1
Product type you have chosen is DairyProduct
Enter the price:57
Products that fit the condition:

Product Type: DairyProduct      Product:[Milk] Brand [Ferma]   Price [10.5]   ID [638700692165280671]
Product Type: DairyProduct      Product:[Milk] Brand [Pole]    Price [20.5]   ID [638700692165320776]
Product Type: DairyProduct      Product:[Milk] Brand [Korivka] Price [15]      ID [638700692165320793]
Product Type: DairyProduct      Product:[Milk] Brand [Korivka] Price [15]      ID [638700692165320796]
Product Type: DairyProduct      Product:[Yogurt] Brand [Pole]   Price [15]      ID [638700692165321221]
Product Type: DairyProduct      Product:[Yogurt] Brand [Korivka] Price [23.1]    ID [638700692165321537]
Product Type: DairyProduct      Product:[Yogurt] Brand [Vershkovy] Price [25.3]    ID [638700692165321539]
Product Type: DairyProduct      Product:[Milk] Brand [Milk1]   Price [34]      ID [638701605484394658]
Product Type: DairyProduct      Product:[Yogurt] Brand [yogurt1] Price [56]      ID [638701605728370498]

Press any key to continue...
```

If the user chooses **3** the app will display information about the specific products, with a specified amount. When you select this menu, it will show the next menu, where you select one, several, or all types of products to display. After you have to enter the amount of products, the app will display all the products with the amount bigger or the same as entered.

```
WAREHOUSE OF
DAIRY AND MEAT PRODUCTS
Display products amount of which is greater than entered.

Select one, several or all products:
Available products:

1. Milk
2. Yogurt
3. Meat
4. Sausage
5. All

If you entered all products you want to see information about, type Exit:

5
Enter the quantity to compare with the product's amount:
5
Products, the amount of which is greater than 5

Milk products:
Product Type: DairyProduct      Product:[Milk] Brand [Ferma]   Price [10.5]   ID [638700692165280671]
Product Type: DairyProduct      Product:[Milk] Brand [Pole]    Price [20.5]   ID [638700692165320776]
Product Type: DairyProduct      Product:[Milk] Brand [Korivka] Price [15]      ID [638700692165320793]
Product Type: DairyProduct      Product:[Milk] Brand [Korivka] Price [15]      ID [638700692165320796]
Product Type: DairyProduct      Product:[Milk] Brand [Milk1]   Price [34]      ID [638701605484394658]

Meat products:
Product Type: MeatProduct        Product:[Meat] Brand [Sviganyna] Price [200]     ID [638700692165322716]
Product Type: MeatProduct        Product:[Meat] Brand [Smakota] Price [250]     ID [638700692165322920]
Product Type: MeatProduct        Product:[Meat] Brand [Myasko] Price [300]     ID [638700692165322922]
Product Type: MeatProduct        Product:[Meat] Brand [Sviganyna] Price [300]     ID [638700692165322923]
Product Type: MeatProduct        Product:[Meat] Brand [Myasna hatka] Price [300]    ID [638700692165322925]
Product Type: MeatProduct        Product:[Meat] Brand [meat1]   Price [56]      ID [638701605882338568]

Press any key to continue...
```

**4** and **5** add and remove products from the warehouse respectively.

To add a product first of all you have to choose the name of the product you want to add, then you have to enter the trademark of the product, and lastly, you enter its price.

When you choose remove the product, the application will print all products in the warehouse, and let you enter the product ID. Since this is a unique field, we use it to indicate the product to remove.

Entering **Exit** will force the program to close and commit changes to the file which contains information about all products in the warehouse. The collection of products in the warehouse will be written in this file.

### 3. Sequence diagram

