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## About

Electronic Point of Sale (EPOS), as the name suggests, is a software system that performs all business tasks such as checkouts, payments, handling accounts, inventory management, etc.. The system is developed on the .NET framework using C# for its backend and Winforms for GUI. This project is set up for a different type of home clothing shop right now for user testing. EPOS has a built in payroll system, inventory management system, order system.

## Prerequisites

A Visual studio IDE has to be set up to allow EPOS to Run. Just open "Assignment 4.sln" file in the visual studio IDE and you will be ready to go. The forms that need to be updated with the DB source connection string are, InventoryMeny.cs, NewUser.cs, OrderScreen.cs, and Payroll.cs. The email system will also need to be updated with a valid email address and password.

1. Install .NET 4.5 Framework

2. Install Visual Studio IDE

2. Open Assignment4.sln

3. Press f5 to run the application in debug mode.

4. Run exe in "...\\Epos-system\\EPOS system  
project\\Assignment5\\bin\\Debug\\Assignment4.exe"

5. Run the release build exe in "...\\Epos-system\\EPOS system  
project\\Assignment5\\bin\\Release\\Assignment4.exe"

# Usage

The system can run on any windows system.

## Built Using

- Visual Studio - IDE
- .NET Framework - Framework
- C# - C# backend language

## User Interface

### Landing page

The landing page of the system will consist of different choices. it consists of a list available for a customer to purchase(if they are in the stock), list of sizes for that item, you can also choose the quantity of item you want to purchase. A list of items you have added to the cart to proceed. With the order or transaction.

The 2nd part of the landing page consists of 3 buttons and and textbox showing the total value of order.

only close by END button otherwise stock wont be updated

END

Items Summary Search

**Goods Available**

- Shirt
- Jeans
- T-shirt
- Trousers
- Skirt
- Vest
- Shorts
- Jackets
- SweatShirts
- Sportswear
- Sweaters
- Jersies
- Towels
- Kitchen Napkins
- Blankets
- Curtains

**Size**

- Small
- Medium
- Regular
- Large
- Extra Large

**Quantity**

0

ADD TO CART

Proceed with the selected items

DELETE

Clear

Price for one :

Collective Price :

|    | Commodities | Sizes | Quantity | Individual Price | Collective Price |
|----|-------------|-------|----------|------------------|------------------|
| ▶▶ |             |       |          |                  |                  |

< >

EPOS

only close by END button otherwise stock wont be updated

Clear END

Items Summary Search

Total Price : 7.10

Complete Order

Cancel Order

New Order

## Summary Page

Summary page shows the daily sales of items such as Number of commodities sold, total sales, total number of transactions etc.

only close by END button otherwise stock wont be updated

END

Items Summary Search

Summary

*Daily Sales*

Number of Commodities sold:

Total sales :

Total number of transactions :

Average sales:

## Search Page

Search page consists of a form in which you can add your orderId and can search for the previous transactions or order details etc.

EPOS

only close by END button otherwise stock wont be updated

END

Items Summary Search

Search Orders

Enter Order Id:

Search

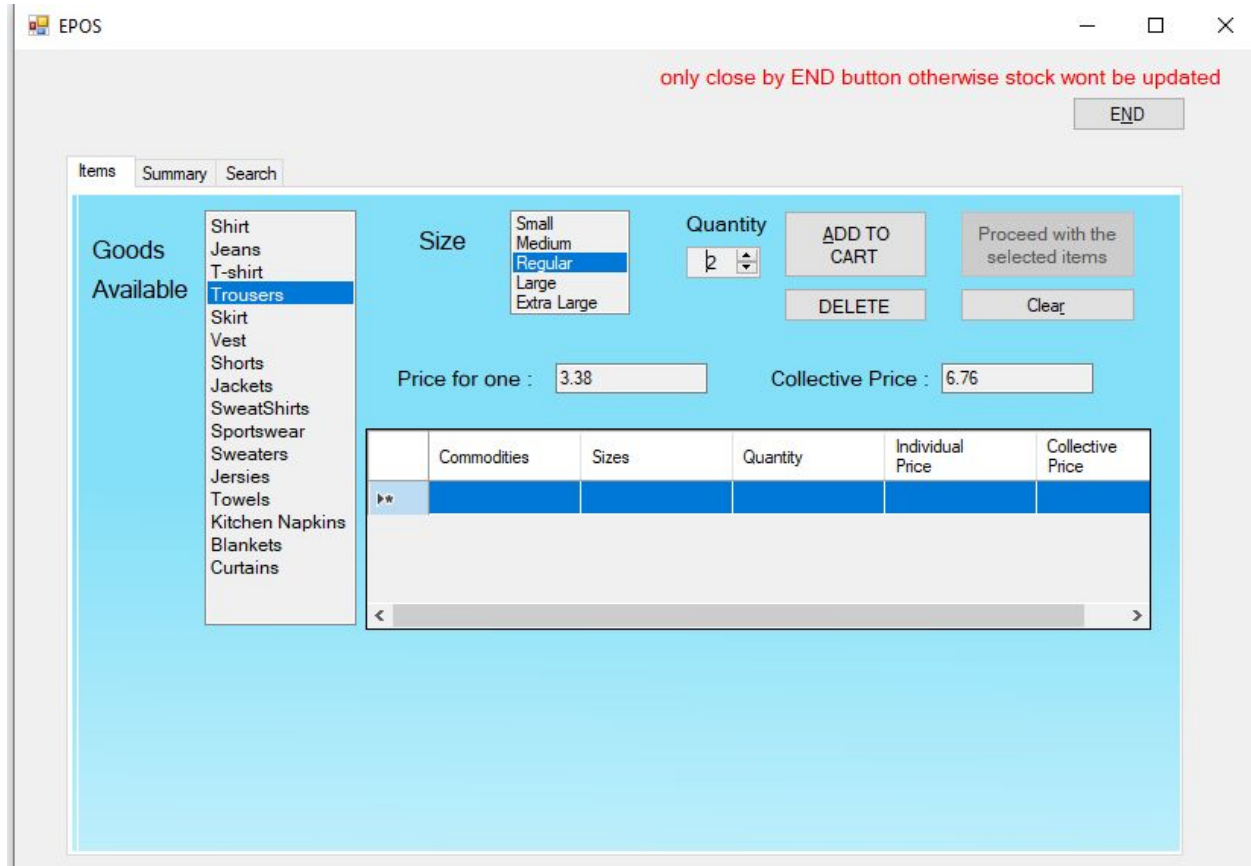
Results

The end user UI will look like the above screenshot which is a combination of different options, different buttons etc.

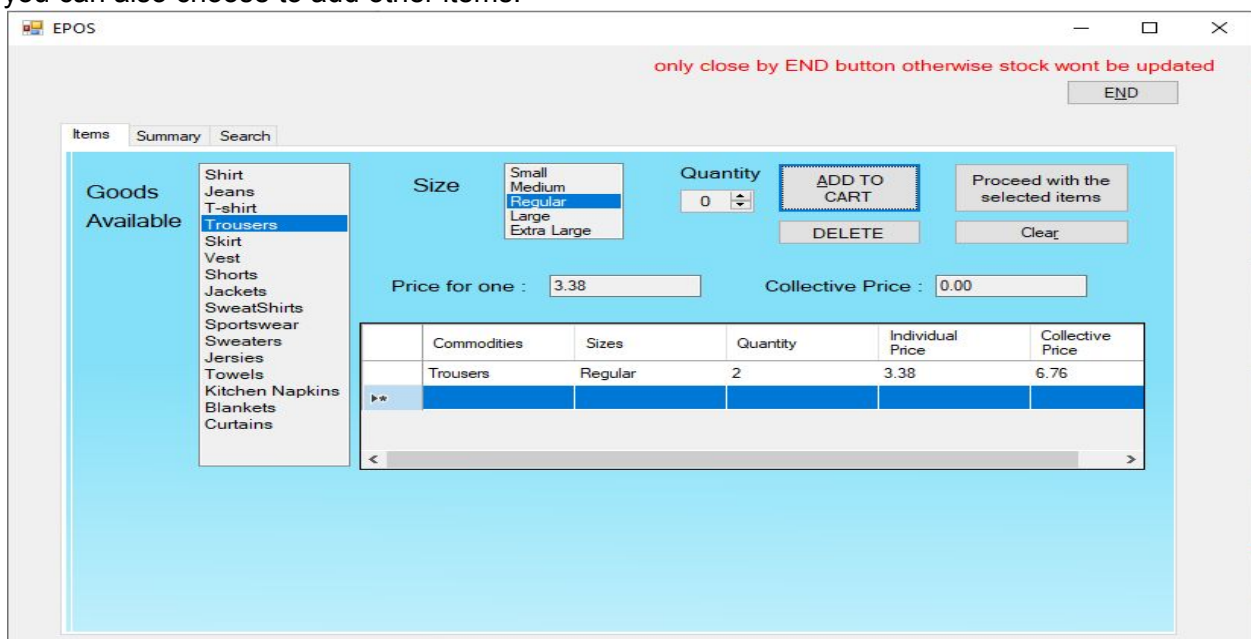
## Functionality

This section will show the functionality or working of the system by explaining every aspect of the system.

When you will start an application on the landing page there are two lists of goods available and a size list. Choose the item you want to add, choose the size and then quantity. Proceed button will be disabled at this time. You can also sell the price for one and the collective price of the items chosen will change according to the items you have chosen for the order.



Press the Add button to add the chosen items in the cart. Now the proceed button gets enabled, quantity and collective price will become zero so that you can proceed to complete the order or you can also choose to add other items.



The Delete button will delete the selected row of the item added to the cart.

EPOS

only close by END button otherwise stock wont be updated

Clear END

Items Summary Search

Goods Available

- Shirt
- Jeans
- T-shirt
- Trousers
- Skirt
- Vest
- Shorts
- Jackets
- SweatShirts
- Sweaters
- Jersies
- Towels
- Kitchen Napkins**
- Blankets
- Curtains

Size

- Small
- Medium
- Regular**
- Large
- Extra Large

Quantity

0

ADD

DELETE

Proceed with the selected items

Price for one : 6.0 Collective Price : 0.0

|   | Commodities            | Sizes   | Quantity | Individual Price | Collective Price |
|---|------------------------|---------|----------|------------------|------------------|
|   | Trousers               | Regular | 2        | 3.38             | 6.76             |
| ▶ | <b>Kitchen Napkins</b> | Regular | 2        | 6.0              | 12.0             |
| * |                        |         |          |                  |                  |

After clicking the delete button the selected item i.e. sportswear will be removed from the list.

EPOS

only close by END button otherwise stock wont be updated

END

Items Summary Search

Goods Available

- Shirt
- Jeans
- T-shirt
- Trousers
- Skirt
- Vest
- Shorts
- Jackets
- SweatShirts
- Sportswear
- Sweaters
- Jersies
- Towels
- Kitchen Napkins**
- Blankets
- Curtains

Size

- Small
- Medium
- Regular**
- Large
- Extra Large

Quantity

0

ADD TO CART

DELETE

Proceed with the selected items

Clear

Price for one : 6.0 Collective Price : 0.0

|   | Commodities            | Sizes   | Quantity | Individual Price | Collective Price |
|---|------------------------|---------|----------|------------------|------------------|
|   | Trousers               | Regular | 2        | 3.38             | 6.76             |
| ▶ | <b>Kitchen Napkins</b> | Regular | 1        | 6.0              | 6.0              |
| * |                        |         |          |                  |                  |

On proceeding further to complete the order the stock will be updated and you will be able to see the 2nd portion of the landing page which is complete order portion. In which

you can see 3 buttons 2 enables complete order and cancel order, and one disabled new order and a textbox with the total amount of items.

On clicking cancelling the order the order will be cancelled and you will again see the portion 1 of the landing page like initially.

only close by END button otherwise stock wont be updated

END

Items Summary Search

Goods Available

Shirt  
Jeans  
T-shirt  
Trousers  
Skirt  
Vest  
Shorts  
Jackets  
SweatShirts  
Sportswear  
Sweaters  
Jersies  
Towels  
Kitchen Napkins  
Blankets  
Curtains

Size

Small  
Medium  
Regular  
Large  
Extra Large

Quantity

0

ADD TO CART

Proceed with the selected items

DELETE

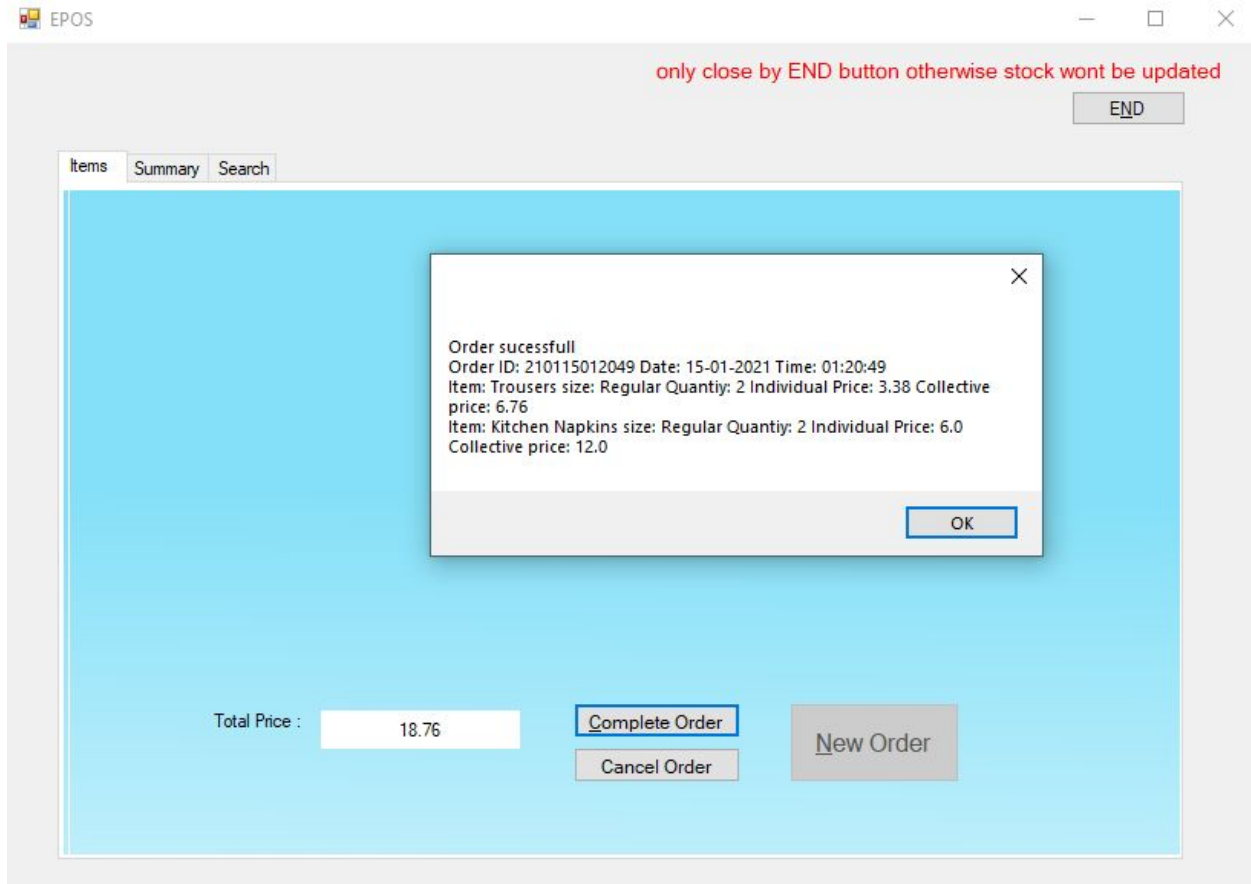
Clear

Price for one :

Collective Price :

| Commodities | Sizes | Quantity | Individual Price | Collective Price |
|-------------|-------|----------|------------------|------------------|
| *           |       |          |                  |                  |

On clicking on complete order the transaction will be complete and updated in the "Orders.txt" file with order id date time and details items you have chosen. The stock will be updated accordingly. Cancel order will be disable and new order will be enables You will see a Message box with all the details.





On Clicking new order you will be able to process a new order following the same above mentioned steps.

The screenshot shows the 'Items' tab of the EPOS system. At the top, a red warning message reads: "only close by END button otherwise stock wont be updated". Below this is an 'END' button. The interface is divided into several sections: a 'Goods Available' list on the left, a 'Size' selection box, a 'Quantity' input field, and buttons for 'ADD TO CART', 'DELETE', and 'Proceed with the selected items'. Below these are input fields for 'Price for one' and 'Collective Price'. At the bottom is a table with columns for 'Commodities', 'Sizes', 'Quantity', 'Individual Price', and 'Collective Price'. The table currently shows a single row with an asterisk in the 'Commodities' column.

only close by END button otherwise stock wont be updated

END

Items Summary Search

Goods Available

- Shirt
- Jeans
- T-shirt
- Trousers
- Skirt
- Vest
- Shorts
- Jackets
- SweatShirts
- Sportswear
- Sweaters
- Jersies
- Towels
- Kitchen Napkins
- Blankets
- Curtains

Size

Small  
Medium  
Regular  
Large  
Extra Large

Quantity

0

ADD TO CART

Proceed with the selected items

DELETE

Clear

Price for one :

Collective Price :

|   | Commodities | Sizes | Quantity | Individual Price | Collective Price |
|---|-------------|-------|----------|------------------|------------------|
| * |             |       |          |                  |                  |

On switching to the summary tab you can see the summary of the daily sales page.

The screenshot shows the 'Summary' tab of the EPOS system. At the top, a red warning message reads: "only close by END button otherwise stock wont be updated". Below this is an 'END' button. The interface features a 'Summary' button and a 'Daily Sales' title. Below the title are four rows of summary data, each with a label and a corresponding input field: 'Number of Commodities sold:', 'Total sales:', 'Total number of transactions:', and 'Average sales:'.

only close by END button otherwise stock wont be updated

END

Items Summary Search

Summary

Daily Sales

Number of Commodities sold:

Total sales :

Total number of transactions :

Average sales:

The page consists of a summary button which will generate the summary of sales on that particular day.

The screenshot shows the EPOS application window with the 'Summary' tab selected. At the top, a red warning message reads 'only close by END button otherwise stock wont be updated'. Below this are 'Clear' and 'END' buttons. The main content area has a light blue background and is titled 'Daily Sales'. It contains a 'Summary' button and four data entries, each with a label and a text input field:

| Label                          | Value |
|--------------------------------|-------|
| Number of Commodities sold:    | 4     |
| Total sales :                  | 13.6  |
| Total number of transactions : | 1     |
| Average sales:                 | 13.6  |

It will show the number of items sold, total sales, total number of transactions and average sales.

Now switching to the search tab you will be able to see a form where you can enter the order id and get the details of that transaction.

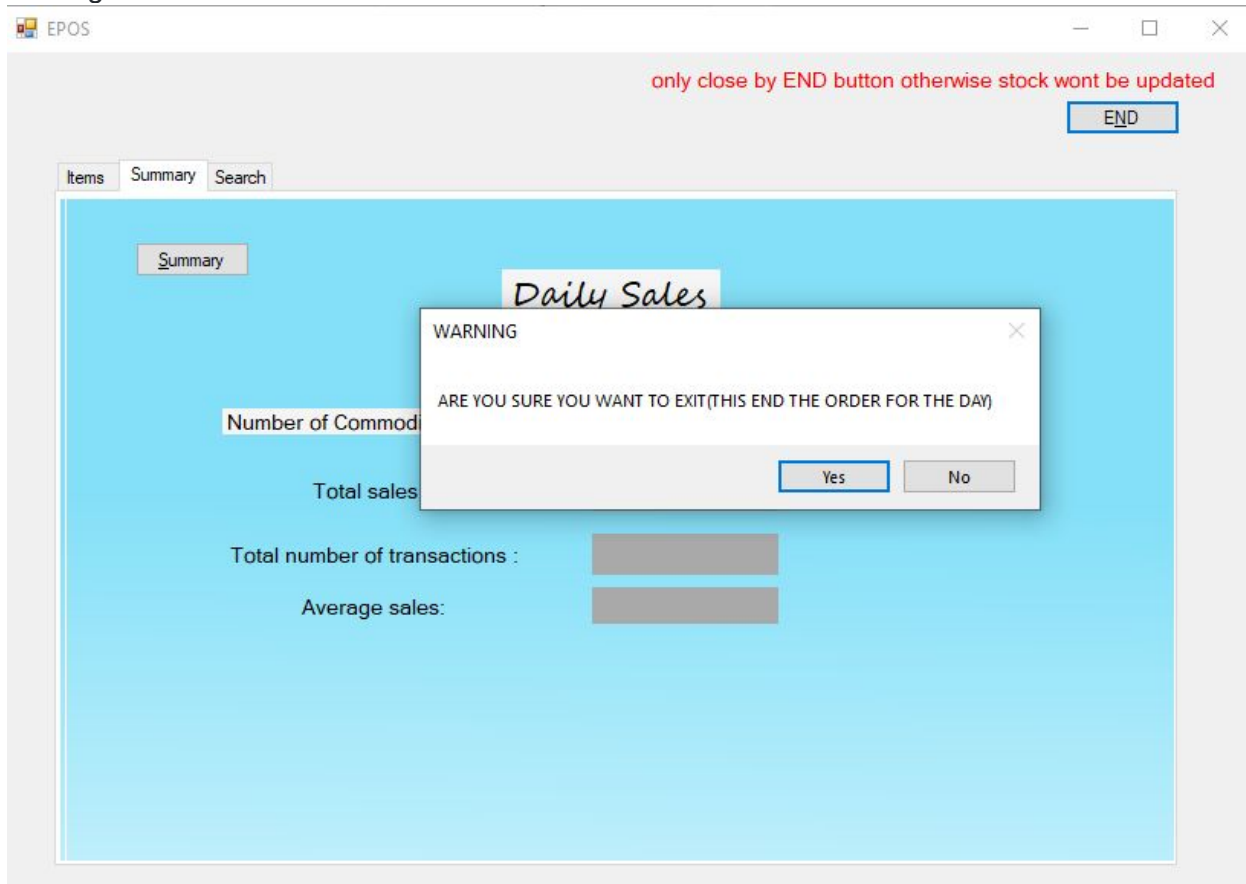
The screenshot shows the EPOS application window with the 'Search' tab selected. At the top, the same red warning message and 'Clear'/'END' buttons are present. The main content area has a light blue background and is titled 'Search Orders'. It features an 'Enter Order Id:' label followed by a text input field containing '210115004338' and a 'Search' button. Below this, a white box displays the following order details:

Order ID: 210115004338 Date: 15-01-2021 Time: 12:43:38  
Item: Trousers size: Regular Quantiy: 2 Individual Price: 3.38 Collective price: 6.76  
Item: Kitchen Napkins size: Regular Quantiy: 2 Individual Price: 6.0 Collective price: 12.0  
Item: Kitchen Napkins size: Regular Quantiy: 2 Individual Price: 6.0 Collective price: 12.0

## End button

On clicking end button will result in termination of application

If you haven't completed any order then the clicking end button will directly terminate the application otherwise a dialogue box will appear on clicking yes the stock will be updated in "closing stock.txt" file.



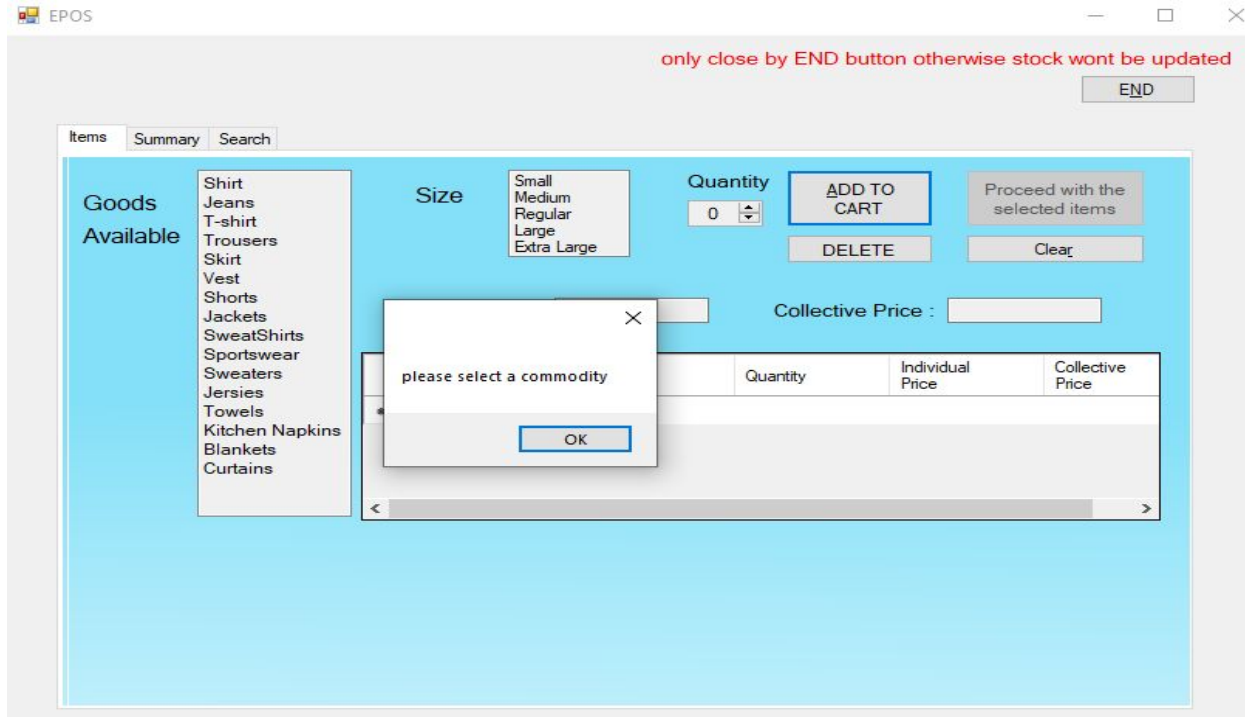
If you click NO it will take you to the landing page for a new order.

\*\* if you close the application by red cross button on right corner the stock won't be updated in the "Closing Stock.txt" file

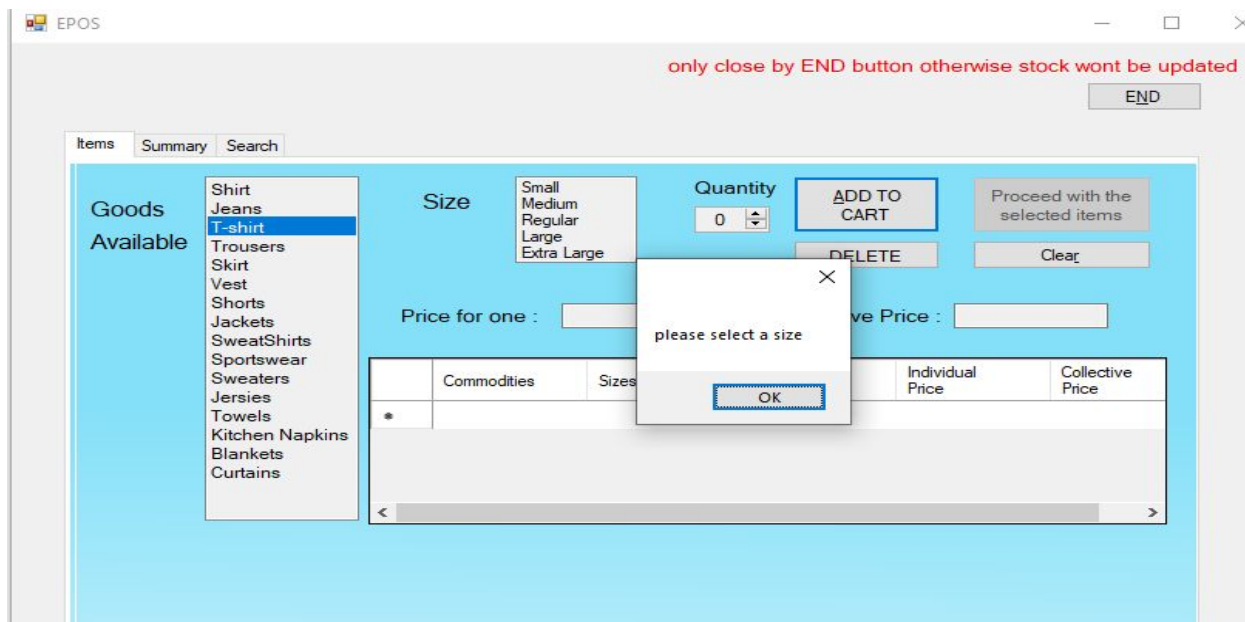
## Warnings on wrong input

Different types of warning pop-up will appear on entering or choosing the wrong input.

1. If you don't select anything and hit button



## 2. On not choosing the size



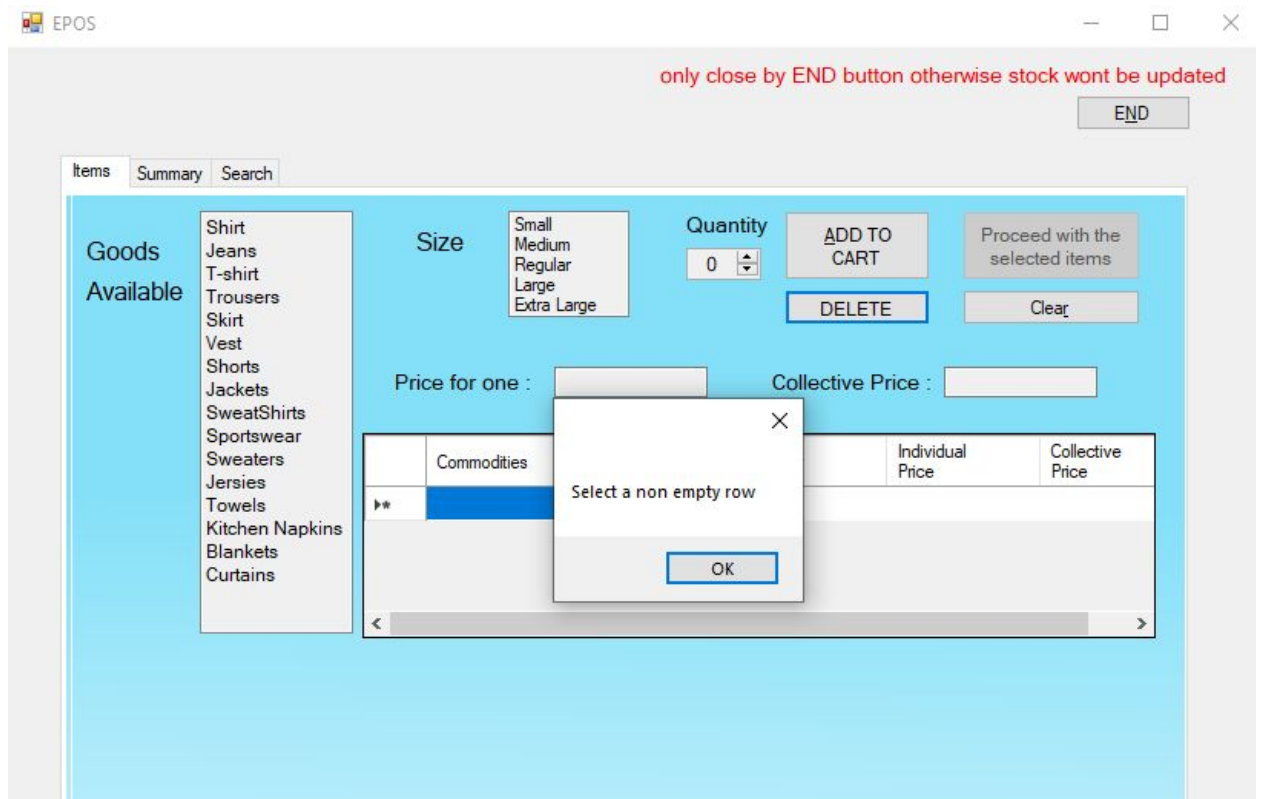
3. On entering the 0 as quantity.

The screenshot shows the EPOS system interface. On the left, a list of goods is visible, with 'T-shirt' selected. The 'Size' dropdown is set to 'Regular'. The 'Quantity' field contains '0'. A modal dialog box is displayed in the center with the text 'Please enter the valid input' and an 'OK' button. The background interface includes buttons for 'ADD TO CART', 'DELETE', 'Proceed with the selected items', and 'Clear'. The 'Collective Price' field shows '0.00'.

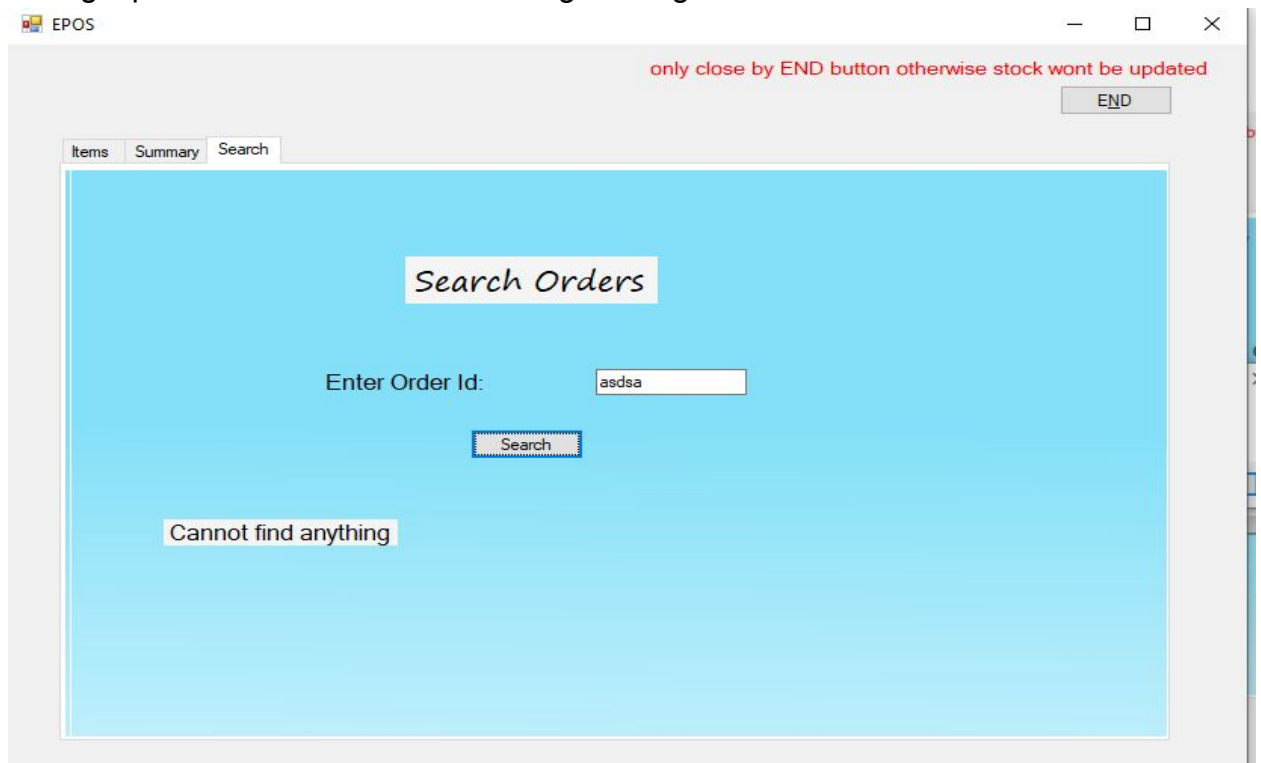
4. On entering more quantities than available.

The screenshot shows the EPOS system interface. At the top, a red text warning reads 'only close by END button otherwise stock wont be updated'. Below this, a button labeled 'END' is visible. The 'Goods Available' list on the left has 'Shirt' selected. The 'Size' dropdown is set to 'Small'. The 'Quantity' field contains '3'. A modal dialog box is displayed in the center with the text 'There is only 2 available' and an 'OK' button. The background interface includes buttons for 'ADD TO CART', 'DELETE', 'Proceed with the selected items', and 'Clear'. The 'Collective Price' field shows '10.35'.

5. On selecting an empty row and deleting it.

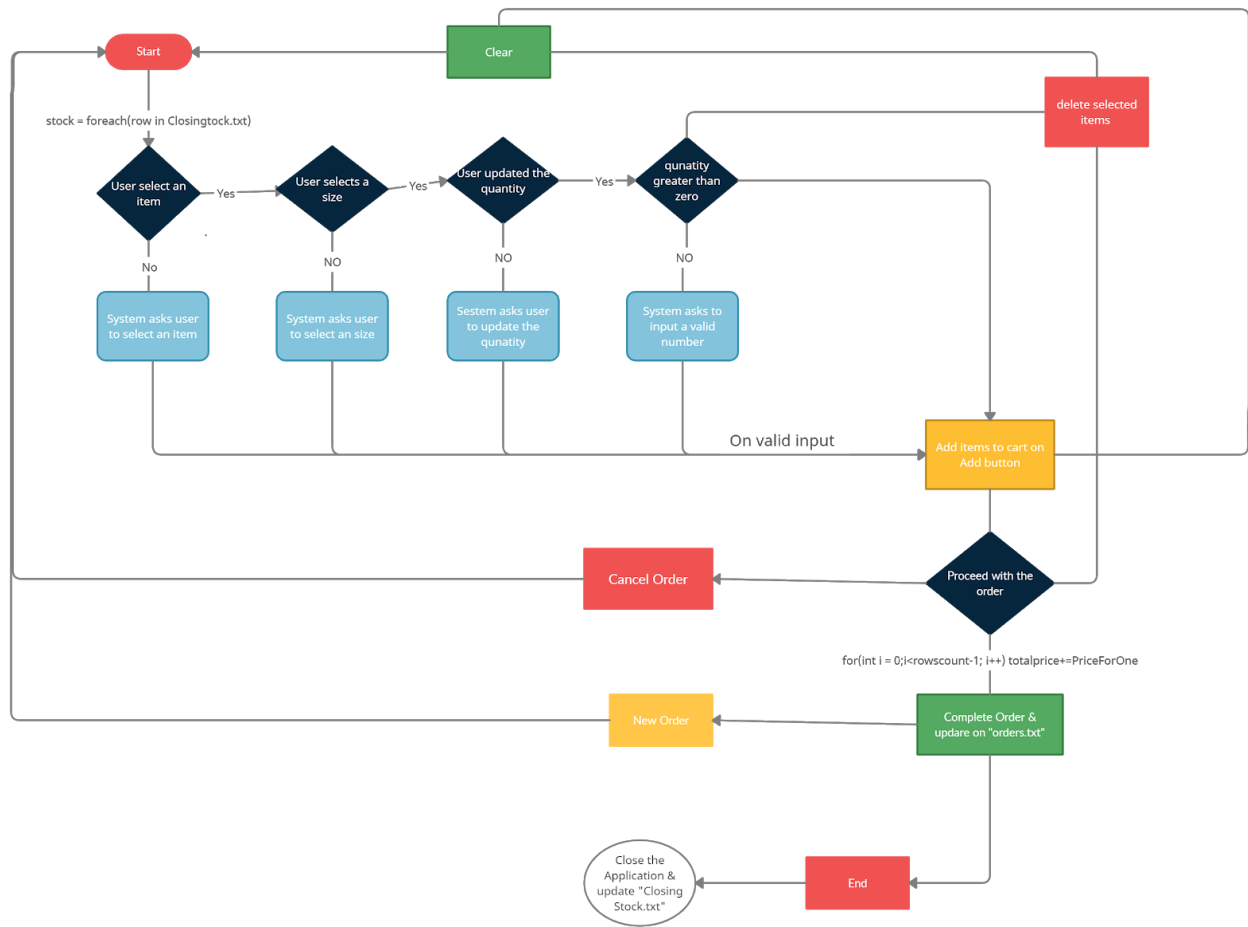


6. Wrong input in search will lead to finding nothing.



# Program flow

## Main flow



## Search flow

