

[Zagazig University]

# Sales Application

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## Introduction

Sales App System is an innovative solution to help businesses streamline their sales process. It provides a comprehensive suite of tools that enable businesses to easily manage their customer data, track customer interactions, and optimize their sales process. With Sales App System, businesses can quickly identify potential leads and opportunities, generate more effective sales strategies, and maximize their return on investment. Additionally, the system offers powerful analytics to help businesses track performance and gain valuable insights into their customers' needs. By leveraging the power of AI and advanced analytics, Sales App System helps companies increase efficiency and improve customer satisfaction.

Project was made to Boost My Skills in Programming and it did what it was meant to do such as Boosting my skills in **Object Oriented Programming in C++** in such an important Topics Like [ **Classes & Objects & Constructors & Destructor & Class Members** ], Besides it Made me Search for More information about other Topics You will find my Resources and How I have written my programs in the other sections. [ Now, I'm Miles away ]

P.S : **Thanks For The Project**, Because You made me Implement & Search For the information and that is what I was missing to complete my Skills.

## Executive Summary

The Sales App is a Program Designed to help Sales Employee Keep Track of their Customers, Store their Phone Numbers and Email Address, and Easily Access This Information When they need it.

The project is sales Application that has the Ability to Add, Delete, Modify, Search and Displaying Customers and Products and Orders and Make Transactions . More Info, it has the Fastest and Smoothest and Efficient Process.

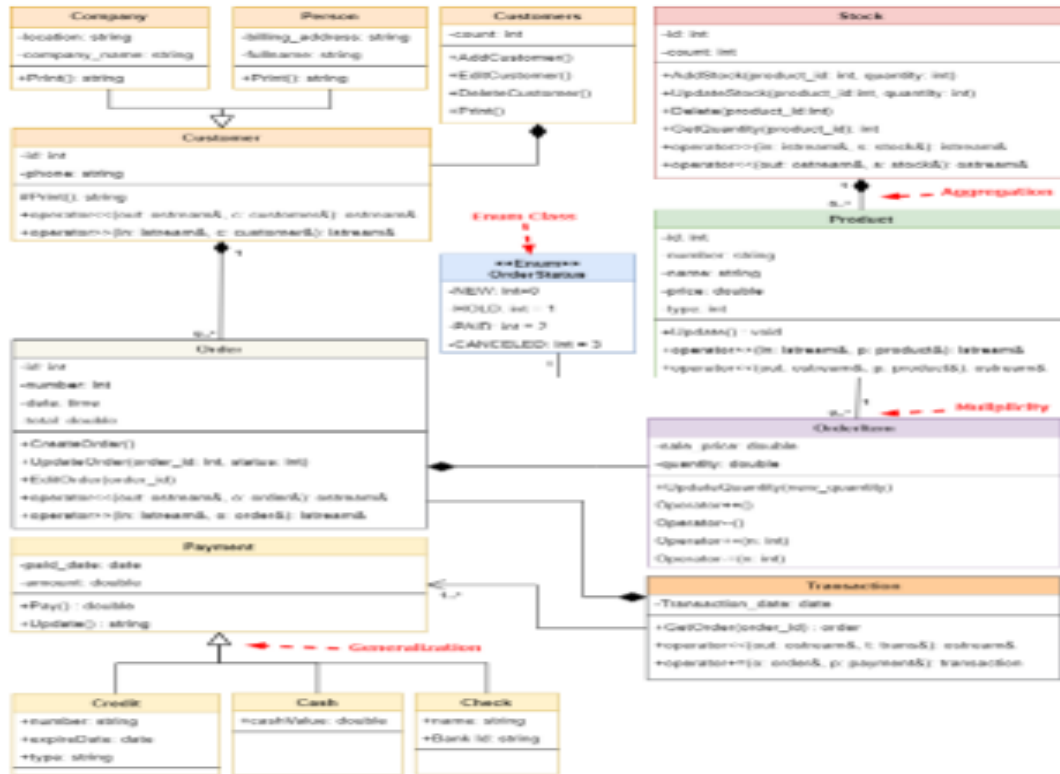
## Project Details

### Implementation :

[in this section will explain how the program works and the use of each method, function, variable and parameter]

### Design:

## Class Diagram



### Add Functions :

### MENU :

```

F:\Sales\bin\Debug\Sales.exe
[ Main ]
[ Welcome To Sales Application ! ]

[1] Customers
[2] Products
[3] Orders
[4] Data
[0] Exit
>>> 1

[1] Add Customer
[2] Update Customer
[3] Delete Customer
[00] Back..
>>> 1
    
```

```
F:\Sales\bin\Debug\Sales.exe
[ Main ]
[1] Customers
[2] Products
[3] Orders
[4] Data
[0] Exit
>>> 2

[1] Add Product
[2] Update Product
[3] Delete Product
[00] Back..
>>>
```

```
F:\Sales\bin\Debug\Sales.exe
[ Show Customers Data ]

[Show Customers]

[Customer] No.1

ID : 1

Company Name : MAQ

Company Location: Hurghada

Phone : 111000000

[ Main ]

[1] Customers
[2] Products
[3] Orders
[4] Data
[0] Exit
>>> 3

[1] Create Order
[2] Update Order
[3] Delete Order
[4] Pay Order
[00] Back..
>>>
```

## Add Customer :

```
F:\Sales\bin\Debug\Sales.exe
[ Add Customer ]

Enter ID : 1

Enter Phone : 0111000000

Choose 1- Company , 2- Person : 1

Enter Company Name: MAQ

Enter Company Location: Hurgada

Do You want to Add Another Customer ? (y,n): n
Press any key to continue . . .
```

## Show Customer :

```
F:\Sales\bin\Debug\Sales.exe
[ Show Customers Data ]

[Show Customers]

[Customer] No.1

ID : 1

Company Name : MAQ

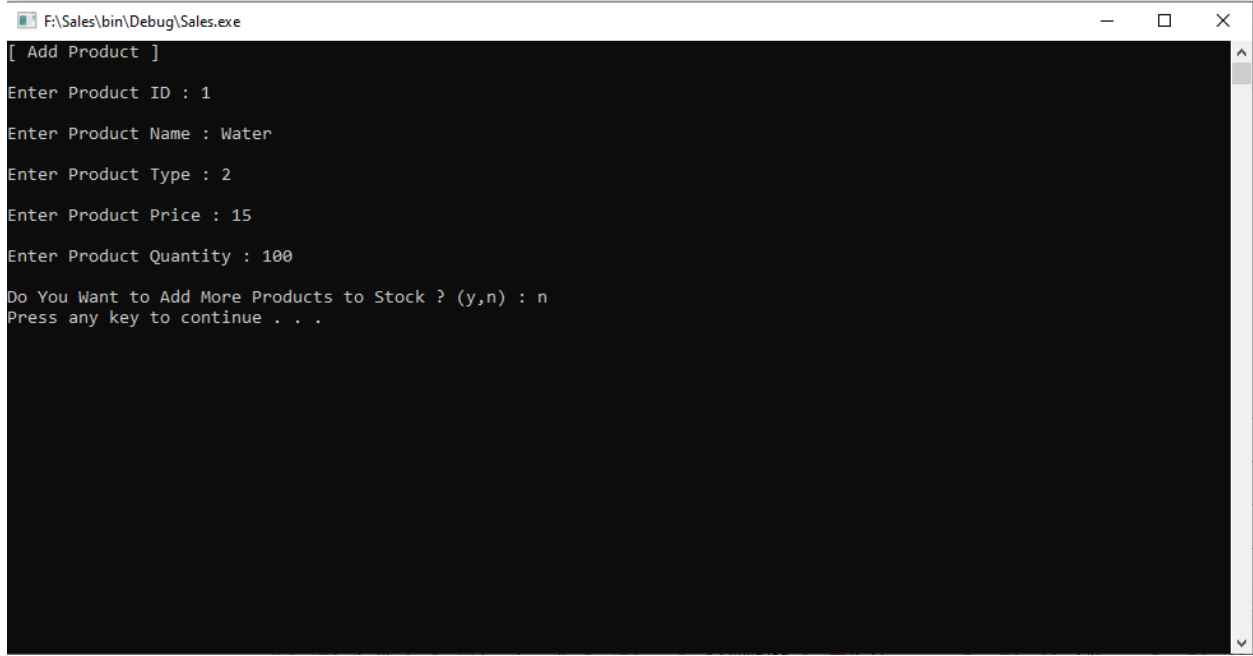
Company Location: Hurghada

Phone : 111000000

[ Main ]

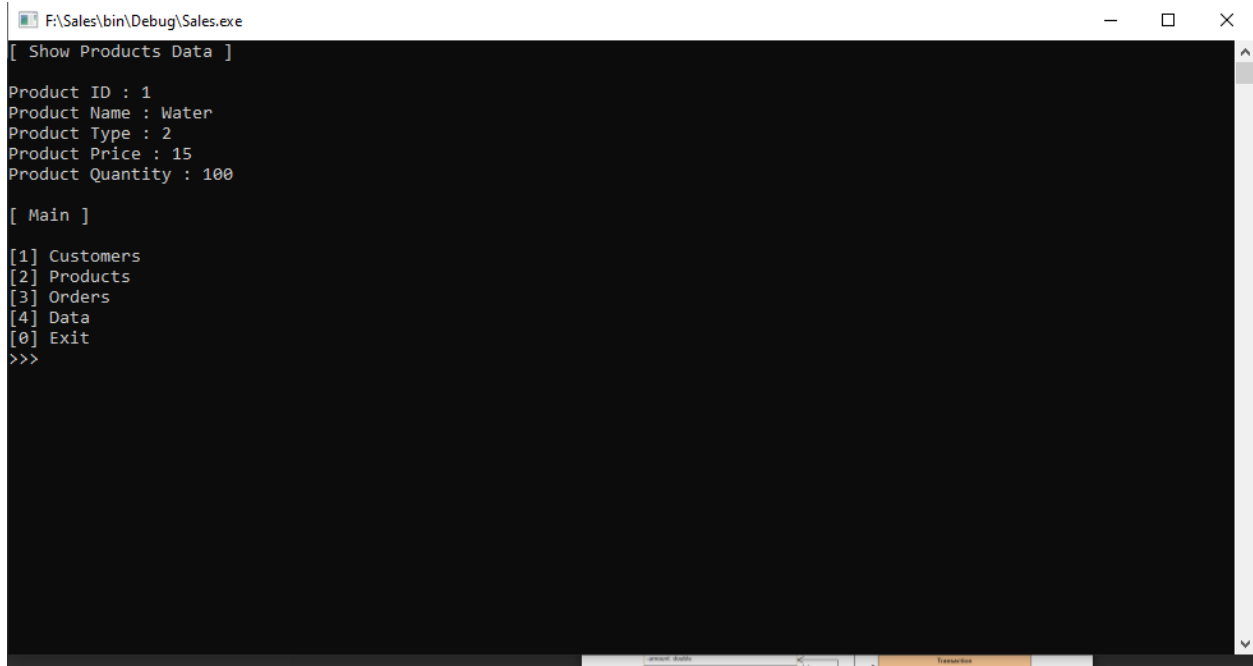
[1] Customers
[2] Products
[3] Orders
[4] Data
[0] Exit
>>>
```

## Add Product :



```
F:\Sales\bin\Debug\Sales.exe
[ Add Product ]
Enter Product ID : 1
Enter Product Name : Water
Enter Product Type : 2
Enter Product Price : 15
Enter Product Quantity : 100
Do You Want to Add More Products to Stock ? (y,n) : n
Press any key to continue . . .
```

## Show Product:



```
F:\Sales\bin\Debug\Sales.exe
[ Show Products Data ]
Product ID : 1
Product Name : Water
Product Type : 2
Product Price : 15
Product Quantity : 100
[ Main ]
[1] Customers
[2] Products
[3] Orders
[4] Data
[0] Exit
>>>
```

## Add Order:

```
F:\Sales\bin\Debug\Sales.exe
[ Create Order ] Min : 2 Orders

[ Order No. 1 ]

Note : Order Must be Less Than Product Quantity or it will Throw an Exception !!

[ Order ID ][ 1000002 ]
Enter Customer ID : 1

Enter Product ID : 1

Enter Quantity : 3

Enter Order Status (New : 0 (Default) , HOLD : 1 , Paid : 2 , Canceled : 3 ) : 2

Enter Date (DD/MM/YYYY ) : 11111111
Order ID :1
Press any key to continue . . .
```

## Show Order ;

```
F:\Sales\bin\Debug\Sales.exe
[ Show Orders/Transactions Data ]

[ Order No. 1 ]

Order ID : 1000002
Product ID : 1
Quantity : 3
Order Status: Paid
Paid By : None
Date : 11111111
Total : 0
[ Main ]

[1] Customers
[2] Products
[3] Orders
[4] Data
[0] Exit
>>>
```

## Pay Order:

```
F:\Sales\bin\Debug\Sales.exe
[ Pay Order ]
Enter Order ID : 1000002
[ Payment Info ]
1- Pay By Credit Card
2- Pay By Check
3- Pay Cash On Delivery 3
Press any key to continue . . .
```

## Order Paid Successfully :

```
F:\Sales\bin\Debug\Sales.exe
[ Show Orders/Transactions Data ]
[ Order No. 1 ]
Order ID : 1000002
Product ID : 1
Quantity : 3
Order Status: Paid
Paid By : Cash on Delivery
Date : 11111111
Total : 45
[ Order No. 2 ]
Order ID : 1000003
Product ID : 2
Quantity : 2
Order Status: Paid
Paid By : None
Date : 2
Total : 0
[ Main ]
[1] Customers
[2] Products
[3] Orders
[4] Data
[0] Exit
>>>
```

## And there is More Fuctions in the App Such As :

- 1- Add/Edit/Update/Delete **Customers**
- 2- Add/Edit/Update/Delete **Products**
- 3- Add/Edit/Update/Delete **Orders**



## **Testing :**

As I said before, this Project has gone through a lot of testing in order to get to the final result, at a specific time of the project, I was doing tests every second to make sure that the program was running successfully and been through debugging process, every class was made and done with approximately 12 tests and was optimized with more tests to get to the best solution and the most efficient, finally the project was a success based on other people's opinion and Testing Results at a Specific Time.

## **Conclusion**

In conclusion, the project implementation yielded positive results in terms of My Colleagues participation and test result. While the main goal of the project is to Help Users Save their Contacts and Keep Track of them, they were also able to Save, Edit, Delete, Display Them.

The Main Purpose of the Book was a success based on other's opinion and Test Results.

## **Upgrade :**

After the big amount of testing cases and my colleagues opinion about the Project, I decided to make More Features in the Program (if the Professor approved the idea) Such as:

1. Add Save and Open File.
2. Make a good interface with Users.
3. Optimize the Execution.

## **Resources :**

<https://www.geeksforgeeks.org/>

<https://stackoverflow.com/>

<https://www.w3schools.com/cpp/default.asp>

DR. Mahmoud El-Mahdi Slides and Videos.

one more resource but off-record : Having Inspiration from other People's Projects.