

Super-Market Billing System

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BACHELOR OF ENGINEERING

IN

AIML

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Outline

- Introduction to Project
- Problem Formulation
- Objectives of the work
- Methodology used
- Results and Outputs
- Conclusion
- Future Scope
- References

Introduction to Project

Supermarket is the place where customers come to purchase their daily using products and pay for that.

There is a need to calculate how many products are sold and to generate the bill for the customer.

In our project and implementation we have 2 users.

The first one is the customer who will get access to the purchase portal In which the customer is allowed to view the product menu and hence he/she can place an order .

- The second one the administrator portal which consists of 7 different segments :
 1. Create Product –In this we can create a product which is purchased by supermarket from the dealers.
 2. Display all products - The products which are feed into the system are displayed by this option.
 3. Query – If the administrator is unsatisfied with the product details, then he/she can refer to this option for clearance.

4. Modify Product – This option allows the administrator to modify or change their product details for future references.
5. Delete Product – The option used for deleting unnecessary products from the system's data.
6. View product menu – This option allows administrator to display the product menu which is accessible to the customer.
7. Back to Main menu

Problem Formulation

- Many Supermarkets use this type of billing system for a decade. It is also improved many times according to requirements of sellers and customers. It does the same work that is calculating the bill, gives it to the customer and maintain proper database. They are accurate in calculation and printing, they also generate records.
- A new concept is also added in the billing system is that they also maintain relationships with the customers who purchase more products from the store regularly. System also concerns their requirements and gives them more commission. It also shows the overall profit and profit on a particular product and give reports which items are required and which have cross their expiry date.

Objectives

- The objective “Supermarket Billing System” is to produce a new software which manages sales activity done in the supermarket, maintaining the stock details. By using this software the user will consume less time in calculation and the sales activity will be completed with very less time as compared to the manual system. Because of “Supermarket Billing System” project paper work will be reduced and admin can focus on monitoring the supermarket.

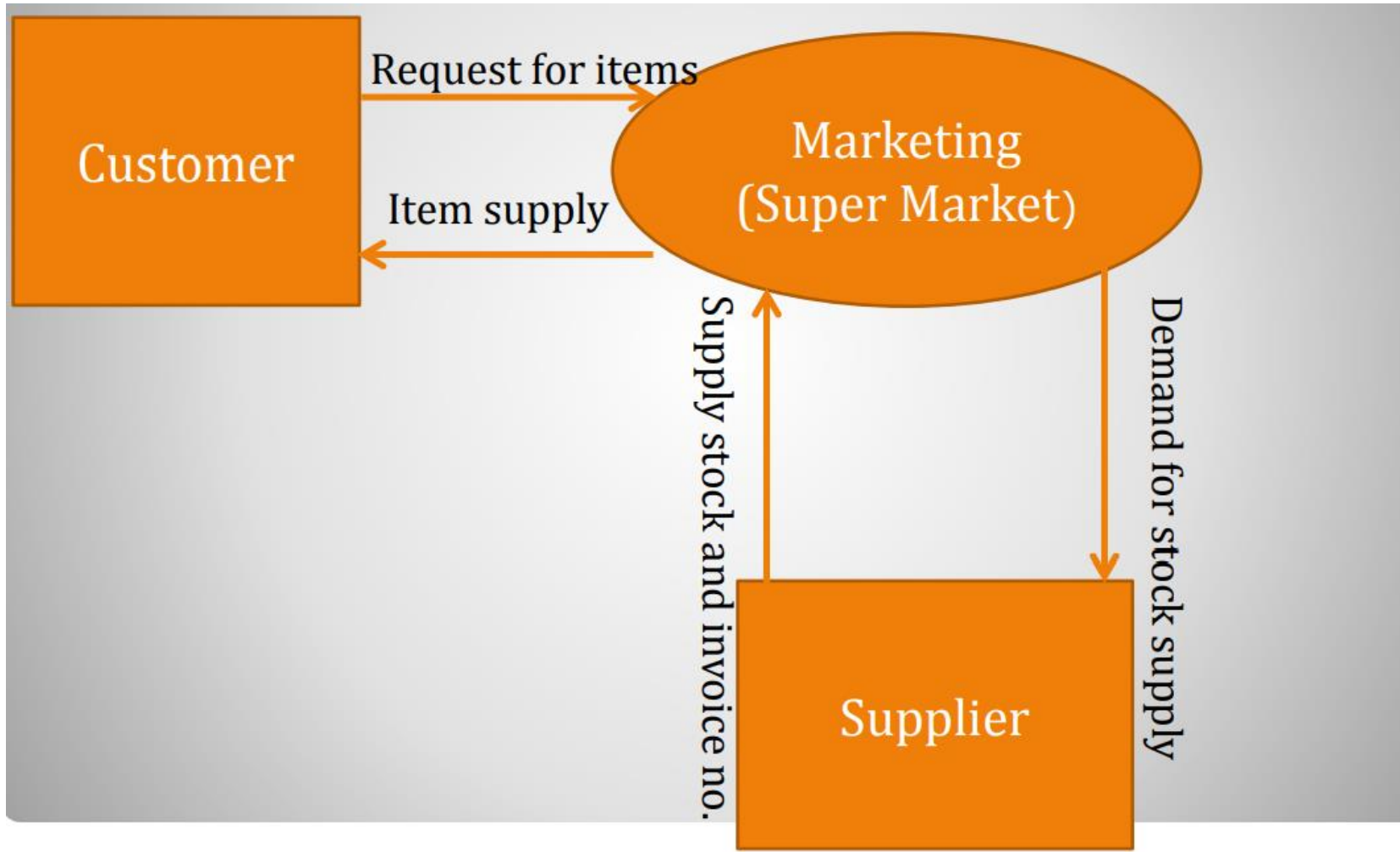
Methodology used

Work in the Supermarket will be done in the following way:.

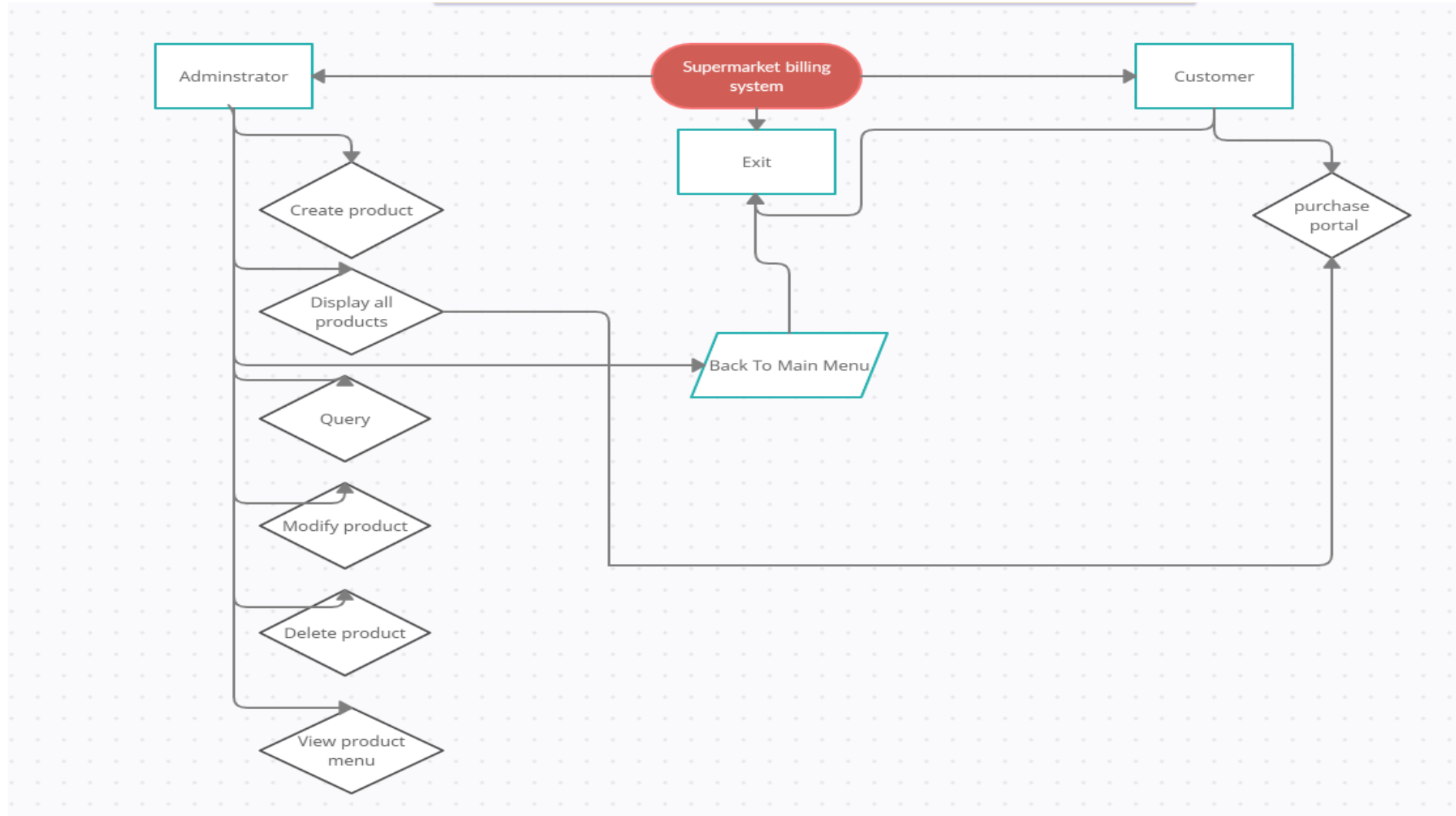
1. The product which will be purchased from the dealer is delivered to the store .
2. Administrator will enter the information of the product in database and enter the taxes and discount for each product.
3. The customer will seek to the product menu and hence will place the order.

4. The administrator will check the product ID in the system and then it will show it's information and price as well as bill will be calculated and total payment will be shown.
5. Customer will pay for the products.
6. All the products will be packed and delivered to the customer.

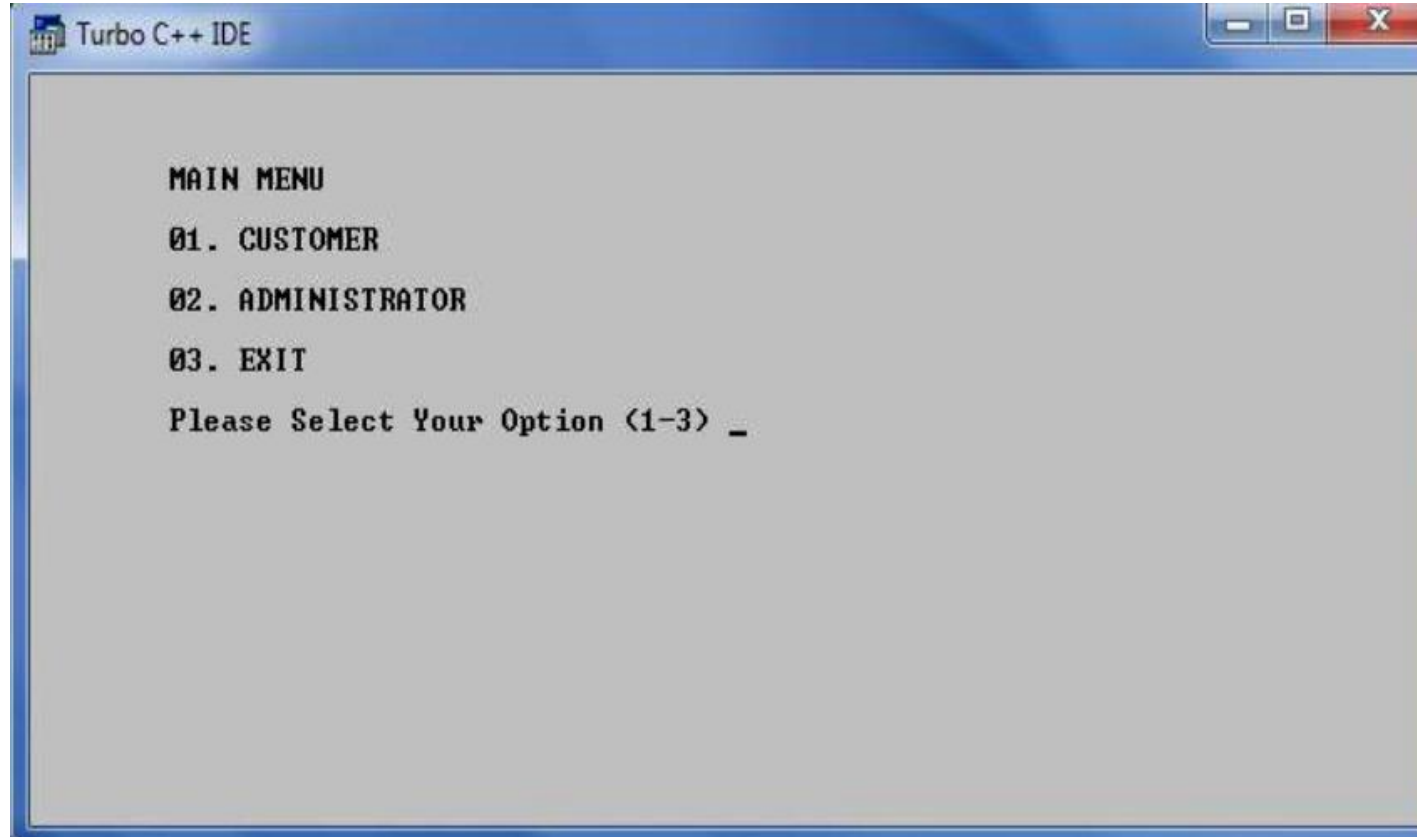
Data Flow Diagram(DFD)



UML Diagram

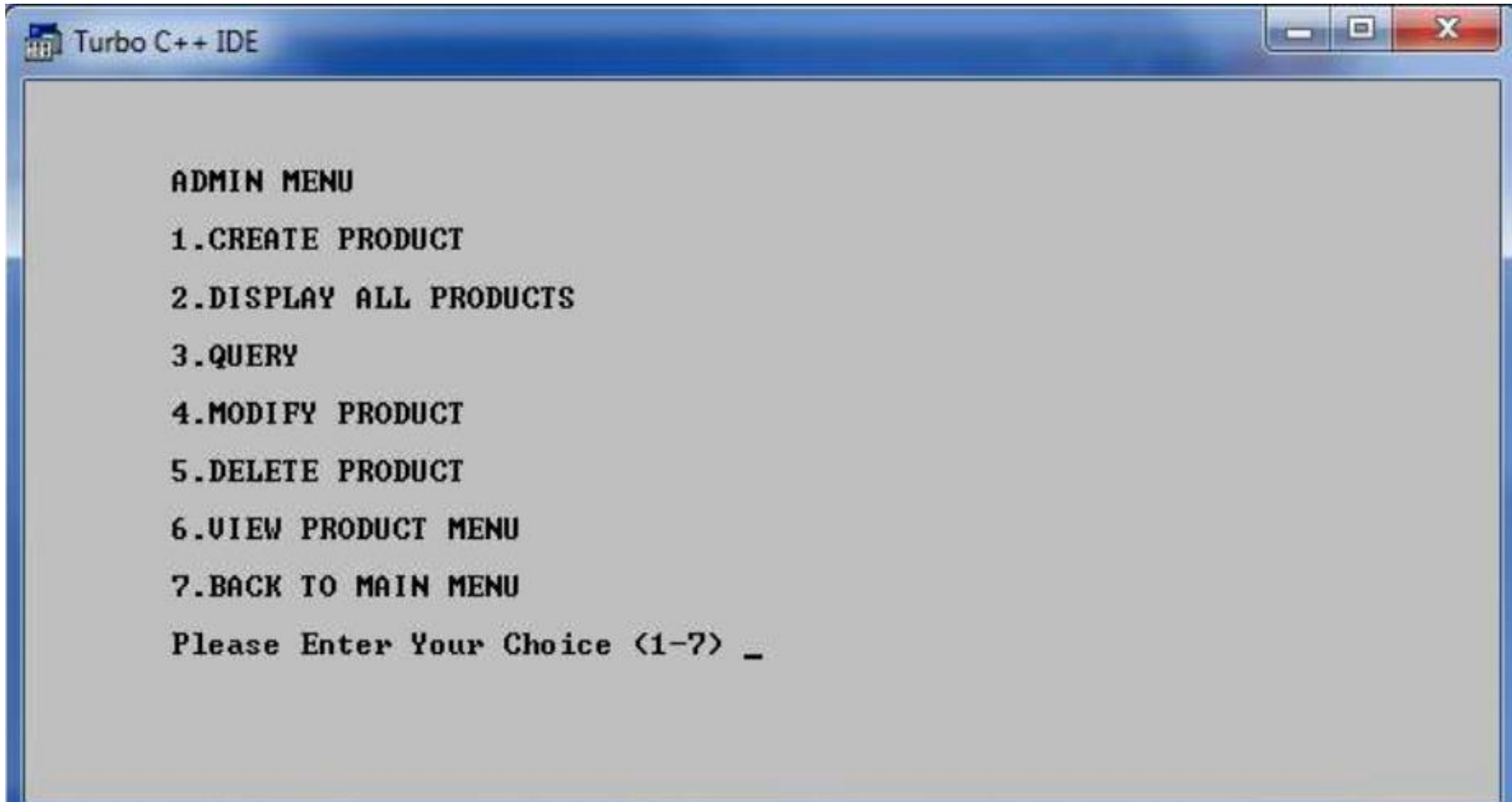


Output



```
Turbo C++ IDE

MAIN MENU
01. CUSTOMER
02. ADMINISTRATOR
03. EXIT
Please Select Your Option (1-3) _
```



```
Turbo C++ IDE

ADMIN MENU
1.CREATE PRODUCT
2.DISPLAY ALL PRODUCTS
3.QUERY
4.MODIFY PRODUCT
5.DELETE PRODUCT
6.VIEW PRODUCT MENU
7.BACK TO MAIN MENU
Please Enter Your Choice <1-7> _
```

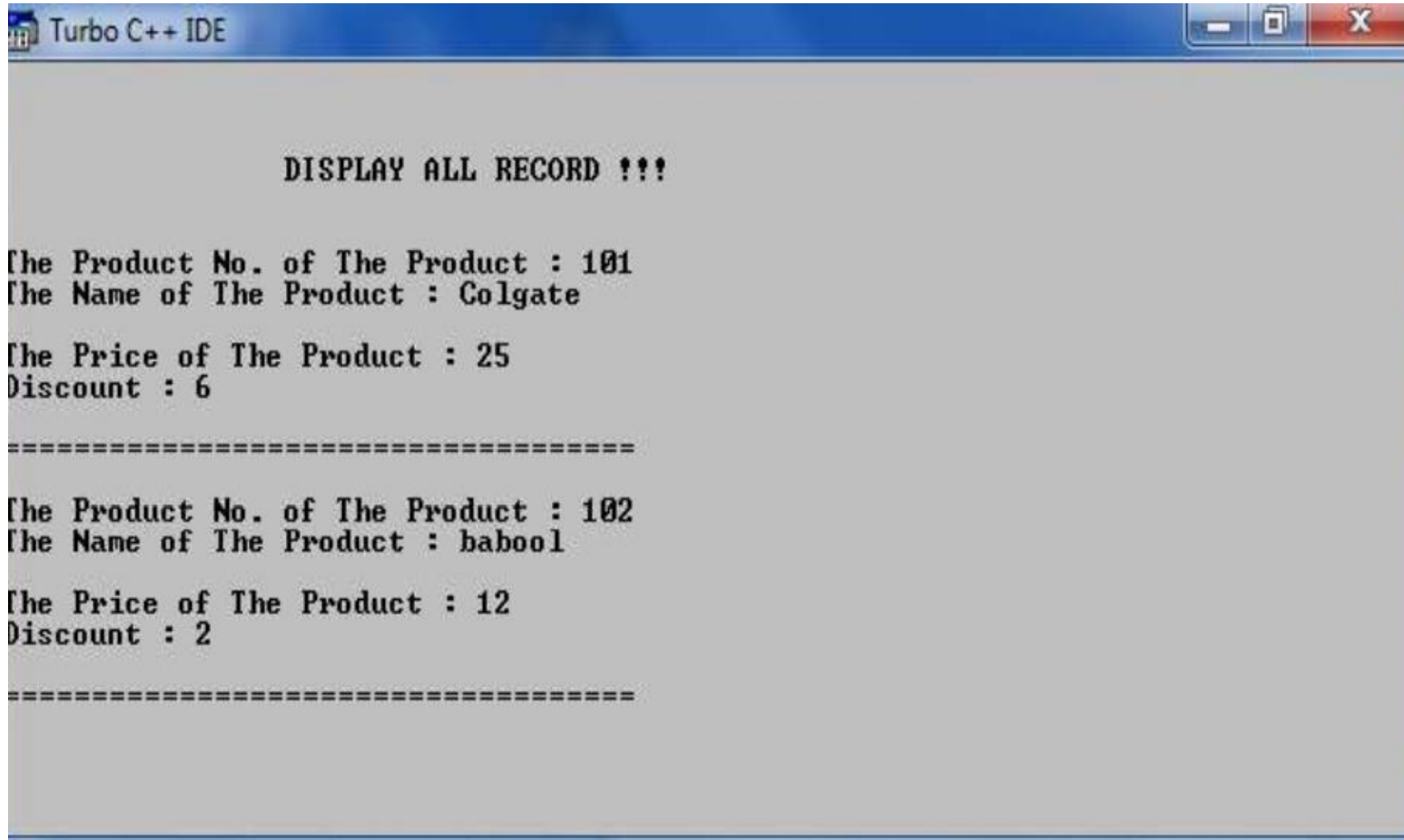
```
Turbo C++ IDE

Product MENU

=====
P.NO.      NAME      PRICE
=====
101        Colgate    25
102        babool     12
=====

PLACE YOUR ORDER
=====

Enter The Product No. Of The Product : 101
Quantity in number : 2
Do You Want To Order Another Product ? (y/n)_
```



```

                                DISPLAY ALL RECORD !!!

The Product No. of The Product : 101
The Name of The Product : Colgate

The Price of The Product : 25
Discount : 6

=====

The Product No. of The Product : 102
The Name of The Product : babool

The Price of The Product : 12
Discount : 2

=====

```

```
Turbo C++ IDE

*****INVOICE*****
Pr No.  Pr Name  Quantity      Price   Amount  Amount after discount
101     Colgate  2          25      50        47
102     babool   1          12      12       11.76
                        TOTAL = 58.760002_
```


Conclusion

Our project and implementation is on supermarket Billing System. We have successfully completed it. We take this opportunity to express our sense of indebtedness and gratitude to all those people who helped us in completing this project and implementation .

Benefit:

1. Saving in labor due to self-service system.
2. Supermarket has large turnover.
3. Low cost of operation.
4. Freedom of selection.
5. Shopping is very easy and quick.

Limitation:

1. There is lack of personal attention.
2. It require large and extensive premises.
3. Goods which require explanation by salesman cannot be sold in such markets.

Future Scopes

Various new approaches can be used in the project such as :

- Use of a QR code scanning system which makes the security and feasibility much better.
- Upgradation into GUI based software which allows more clean working logs .
- Insertion of password and security means like fingerprint print scanner or face detection so that data could not be breached.

References

1. www.github.com
2. www.stackoverflow.com
3. www.geekforgeeks.com
4. www.nevonprojects.com
5. https://circleci.com/integrations/github/?utm_source=gnb&utm_medium=SEM&utm_campaign=SEM-gnb-GitHub-Eng-idea&utm_content=SEM-gnb-GitHub-Eng-idea-GitHub&gclid=Cj0KCQjwl_SHBhCQARIsAFIFRVVIBgBBTHNB72KngKh4UBq5TQEZfQhpL9UIBmkKrJI0vesDQpo1