

Customer Billing System

A Project Report Submitted by

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In partial Fulfilment for the award of the degree of
BACHELOR OF TECHNOLOGY
in
COMPUTER SCIENCE ENGINEERING
With Specialization in Artificial Intelligence and Machine Learning
of
FACULTY OF ENGINEERING AND TECHNOLOGY



S.R.M.Nagar,Kattankulathur,Kancheepuram District
SRM UNIVERSITY
(under Section 3 of UGC Act,1956)

BONAFIDE CERTIFICATE

Certified that this project report titled Flight Ticket Booking is the bonafide work of Ravi Vamsi Krishna (RA211102 6010114), Cheedella S V Abhinava Sai (RA2111026010127)Kurella Chaitanya(RA2111026010132),who carried out the project work under Our supervision.Certified further,that to the best of our Knowledge the work reported herein does not form any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

SIGNATURE**HEAD OF DEPARTMENT****Signature of Internal Examiner****Signature of External Examiner**

ACKNOWLEDGEMENTS:

We,would like to express our deepest gratitude to our guide, Dr.M.Sindhuja Mam,for her valuable guidance,consistent encouragement,Personal caring,timely helping and providing us with an excellent atmosphere for doing research.All through the work, in spite of her busy schedule,she has extended cheerful and cordial support to us for completing this research work.

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OBJECTIVES:

A Supermarket has just purchased a computer for its new automated Customer Billing system. The owner has asked to program the new system in C.

It is required to write a program to print the bill for customers. The program should take the customer name, address and phone Number from the customer.

After, the system should print a receipt indicating the persons' name, address, phone number and by using items, quantity, and it should print total price, discount and price after discount clearly to the customer.

Along with this system should print Bill Number and date on the receipt.

Working of Our System:

```
#include <stdio.h>
int percent();
int manual();
int no_dis();

int a,qua[10],bill_id,i,n;
float tot,ipri,dis,rate[10];
char cname[20],cphone[10],cadd[300],item[20][20],date[10];
int main()
{
    printf("\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t*****HELLO!!*****");
    printf("\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t*****ENTER THE DETAILS HERE*****");
    printf("\n\n\n\t\t\t\t\t*)Enter the Bill id=");
    scanf("%d",&bill_id);

    printf("\n\t\t\t\t\t*)Enter the Date=");
    scanf("%s",date);

    printf("\n\t\t\t\t\t*)Enter the name of Customer=");
    scanf("%s",cname);

    printf("\n\t\t\t\t\t*)Enter the Address of customer=");
    scanf("%s",cadd);

    printf("\n\t\t\t\t\t*)Enter the Phone number of customer=");
    scanf("%s",cphone);
```

1)In this part of the code the variables are globally declared such that they can be accessed at any point while writing a code.

2)This part of the code is particularly used for the intake of customer details.

```

for(i=1;i<=n;i++)
{
    printf("\n\n\n\t\t\t*name of the item %d:",i);
    scanf("%s",item[i]);

    printf("\n\t\t\t*price of the item %s:",item[i]);
    scanf("%f",&rate[i]);

    printf("\n\t\t\t*quantity of the item %s:",item[i]);
    scanf("%d",&qua[i]);
    ipri=ipri+(qua[i]*rate[i]);
}

```

1) This part of the code is used to enter the details like name, quantity and price of the items purchased.

2) Here we had to make the use of a for loop so that the process can be repeated based on the number of items purchased.

```

printf("\n\n\n\t\t\t\t\t*****DISCOUNT SECTION*****");
printf("\n\n\n\t\t\tDISCOUNT APPLICABLE: \t1)IN PERCENTAGE\n\t\t\t\t\t2)MANUAL DISCOUNT\n\t\t\t\t\t3)NO DISCOUNT\n\t\t\tEnter the choice:");
scanf("%d",&a);

```

1) This part of code is named as "DISCOUNT SECTION" it includes three options

- which are:
- 1) IN PERCENTAGE
 - 2) MANUAL DISCOUNT
 - 3) NO DISCOUNT.

Which resembles the functions percent(), manual(), no_dis();.

2) Based on the option selected the discount is applied.

3) switch case is used for this part.

1) If the user doesn't want to apply the discount, these functions get triggered.

2) Displays the bill without a discount.

Tools Used:

<https://app.diagrams.net/>

We used this website to Draw Flow charts for our Project.

Input,Output:

```
*)Enter the Date=03.02.2022
*)Enter the name of Customer=ABCD
*)Enter the Address of customer=India
*)Enter the Phone number of customer=74635374543875
*)Total no.of itmes purchsed=4

*****ITEM DETAILS*****

*)name of the item 1:Apple
*)price of the item Apple:40
*)quantity of the item Apple:6

*)name of the item 2:Banana
*)price of the item Banana:4
*)quantity of the item Banana:4

*)name of the item 3:Biscuit
*)price of the item Biscuit:1
*)quantity of the item Biscuit:10

*)name of the item 4:Coke
*)price of the item Coke:50
*)quantity of the item Coke:3
*)total price=416.000
```

With discount in %

```
*****DISCOUNT SECTION*****

DISCOUNT APPLICABLE:  1)IN PERCENTAGE
                      2)MANUAL DISCOUNT
                      3)NO DISCOUNT
Enter the choice:1

DISCOUNT TO BE APPLIED IS(in precentage):15

*****WELCOME*****

Bill id:123                                     Date: 03.02.2022
Name of Customer:ABCD
Address of customer:India
Phone number of customer:746353745438=99C0

    item name    price    quantity    total
    Apple       40.000        6      240.000
    Banana       4.000         4       16.000
    Biscuit       1.000        10       10.000
    Coke        50.000         3      150.000

Overall discount=62.400002
price after the discount:353.600

*****Thank You*****
```

With discount in Rupees

```
*****DISCOUNT SECTION*****

DISCOUNT APPLICABLE:  1)IN PERCENTAGE
                      2)MANUAL DISCOUNT
                      3)NO DISCOUNT
Enter the choice:2

DISCOUNT TO BE APPLIED IS(in manual):80

*****WELCOME*****

Bill id:123                                     Date: 03.02.2022
Name of Customer:ABCD
Address of customer:India
Phone number of customer:746353745438

      item name      price      quantity      total
      Apple         40.000         6         240.000
      Banana         4.000         4         16.000
      Biscuit         1.000        10         10.000
      Coke           50.000         3        150.000

Overall discount=80.000000
price after the discount:336.000

*****Thank You*****
```

With No discount

```
*****DISCOUNT SECTION*****

DISCOUNT APPLICABLE:  1)IN PERCENTAGE
                      2)MANUAL DISCOUNT
                      3)NO DISCOUNT
Enter the choice:3

*****WELCOME*****

Bill id:123                      Date: 03.02.2022
Name of Customer:ABCD
Address of customer:India
Phone number of customer:74635374543875

      item name      price      quantity      total
      Apple         40.000         6         240.000
      Banana         4.000         4         16.000
      Biscuit        1.000        10         10.000
      Coke           50.000         3        150.000

total price=416.000

*****Thank You*****
```

Conclusion:

The Customer Billing system is designed for the owner to Print the Bills easily to the customers by using the system. A formula is included in the function to calculate the discount for the items applicable in the Supermarket. Pseudocode is written for some important codes. A few flow charts are also created for explaining the process of the Customer Billing system. From this assignment, We have learnt to implement a few C concepts in the future projects in the program. We have also learnt to create flow charts for explaining the program using <https://app.diagrams.net/>