INTRODUCTION

A customer billing system is a software application or program designed to manage the billing process for customers of a business or organization. The system typically includes features such as invoice creation, payment processing, and account management.

The system is usually designed to automate the billing process, reducing the amount of time and effort required to manage customer accounts and invoices. It can also help to reduce errors and improve accuracy, as the system is designed to perform calculations and generate invoices automatically.

MODULES REQUIRED

The customer billing system program consists of the following modules:

1. **Displaying Available Items:** This module displays the menu of items available in the cafe. The menu includes meals, drinks, snacks, desserts, and their respective prices.
2. **Adding Items to the Bill:** This module allows the user to select the items they want to purchase and add

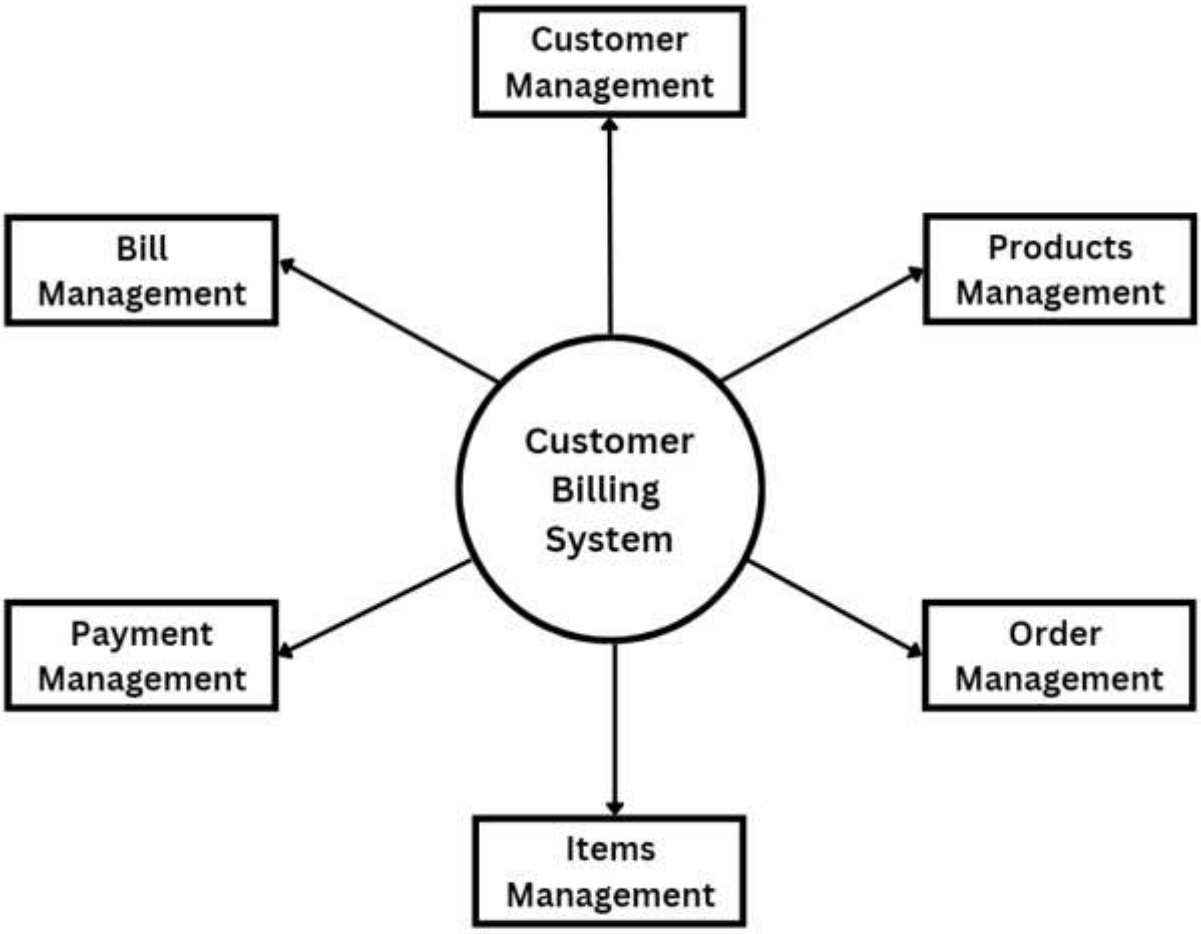
them to the bill. The module also displays the total price of the bill.

3. **Deleting Items from the Bill:** This module allows the user to delete any item from the bill that they do not want to purchase.

4. **Applying Discounts:** This module applies discounts to the total price of the bill based on the selected discount percentage.

5. **Selecting Payment Mode:** This module allows the user to select the payment mode for their bill. The payment modes available are cash, credit card, and debit card.

Data Flow Diagram



Level - 0 DFD of Customer Billing system

PROGRAMMING CODE :

```
#include<stdio.h>
#include<string.h>
struct list{
   int id;
   char itemName[30];
   int price;
};
// create fuction to display bill
void display(struct list l[] , int size , char cName[] , char cAddress[]){
   int total = 0;
   printf("\n\n\n\n");
   printf("\t WH SMITH \n");
   printf("\t---------- \n");
   printf("\n");
   printf("Name : %s \t Address : %s \n" , cName , cAddress);
   printf("\n");
   for (int i = 0; i < size; i++)
   {
      printf("Id : %d\t", l[i].id);
      printf("Name : %s\t", l[i].itemName);
```

```
        printf("Price : %d\n", l[i].price);
        printf("-----------------------------------------\n");
        total += l[i].price;
    }
    printf("\t\tTotal : %d" , total);
    printf("\n\n");
    printf("\t Thanks for visiting \n");
    printf("\n\n");
}

int main(){
    printf("Hello.....\n");
    char Name[30];
    char Address[30];
    int totalItems;
    printf("Enter your name: \t");
    scanf(" %s" , &Name);
    printf("Enter your address: \t");
    scanf(" %s" , &Address);
    printf("Enter total items: \t");
    scanf("%d" , &totalItems);
    printf("\n");
```

```
    //struct array
    struct list l[totalItems];
    //insert items
    for (int i = 0; i < totalItems; i++)
    {
        l[i].id = (i+1);
        printf("Enter %d item name \t" , i+1);
        scanf(" %s" , &l[i].itemName);
        printf("Enter price \t");
        scanf("%d" , &l[i].price);
    }
    //call display function
    display(l , totalItems , Name , Address);
}
```

Output Snapshot

```
Hello.......
Enter your name:    akshat
Enter your address:     phagwara
Enter total items:  2
Enter 1 item name   Icecream
Enter price     30
Enter 2 item name   choclate
Enter price     50
WH SMITH
    --------------

Name : akshat    Address : phagwara

Id : 1  Name : Icecream Price : 30
-------------------------------------------------
Id : 2  Name : choclate Price : 50
-------------------------------------------------
     Total : 80

     Thanks for visiting
```