

MINI –PROJECT ON

SUPER MARKET MANAGEMENT

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ABSTRACT:

This software project is a traditional supermarket billing system with some added functionality. This system is built for fast data processing and bill generation for supermarket customers. The billing database is a vast collection of product name, price and other product specific data. A product when billed is searched from the database and its price is added to the bill based upon the product quantity. The system also contains discounts on various products so that the product is offered at discounted price while billing. The supermarket billing system is built to help supermarkets calculate and display bills and serve the customer in a faster and efficient manner. This software project consists of effective and easy GUI to help the employee in easy bill calculation and providing an efficient customer service.

1. INTRODUCTION:

A supermarket is a self-service of shop offering a wide variety of food and house hold products Organized into sections and shelves. It is larger and has wider selection than grocery stores, but Is smaller and more limited in range of merchandise than a hypermarket or big-box market. The Super market system is built to help supermarkets calculate and display bills and serve the customer. In faster and efficient manner .Here customer comes to the super market and buy the required product he want and the shop keeper/administrator will calculate the bill of the total products of the customer.

MODULES:

MODULE -1

2.1 ADMINISTRATOR:

2.1.1.OBJECTIVE:

Administrator should maintain the report of all products that are available in super market. Administrator can add, edit, remove items (name of item , cost of the item, tax,.....).

Administrator should store the following for each and every product i.e.,

product name,manufactured date ,cost of the product and no. of products

CONCEPTS:

Files and structures

2.1.2.OPERATIONS:

Add the new product,Edit the product and delete the products

2.1.3.REQUIREMENTS:

Structure to store product details,File to store the product details,Function for adding the products and Function for editing the products

2.1.4.CONCEPTS:

Files and structures

MODULE -2

2.2.. CUSTOMER :

2.2.1. OBJECTIVE:

User is allowed to select and buy different items present in that shop. User should be able to see the items that he/she has bought and Program should not end until the user specifies it to end.

2.2.2.Requirements

File that consists of product details

2.2.3.CONCEPTS:

Files and structures.

2.2.4.OPERATIONS:

User should enter the product no.s that they wish to buy,Quantity in number and the no.of the products

MODULE -3

2.3 .VIEW BILLS:

2.3.1.OBJECTIVE:

It shows the bill report of all the items added by the customer into his/her cart.

2.3.2.OPERATIONS:

calculates the cost of total products that customer buy

The bill should consists of

Product no, No.of products, Cost of the product/products GST and Total after adding GST

2.3.3.CONCEPTS:

Files and Structures

HARDWARE AND SOFTWARE REQUIREMENTS

MINIMUM HARDWARE REQUIREMENTS

Processor-I7 , 64 Bit operating system RAM (8GB)

MINIMUM SOFTWARE REQUIREMENTS

Linux environment – virtual box, Editor-vi editor

3.PROJECT CODE

```
#include<stdio.h>
#include<string.h>
struct product
{
    int pno;
    char pname[10];
    float cost;
    int nop;
}p;
struct bill
{
    char name[10];
    float booked;
    float cost;
}b;
struct view
{
    char cname[10];
    float total;
}v;
void administrator();
void customer();
void viewbill();
void billing();
int main()
{
    int ch;
    do{

        printf("1.Administrator\n2.customer\n3.viewbills\n9.exit\n");
        printf("enter your choice : ");
        scanf("%d",&ch);
        switch(ch)
        {
            case 1:
                administrator();
                break;
            case 2:
                customer();
                break;
            case 3:
                viewbill();
                break;
```

```

        default:
            printf("\nthank you");
            break;
    }
} while(ch!=9);
}
void administrator()
{
    FILE *fp,*temp;
    int ch,y,x,a, yes,id;
    long c;
    while(a!=0)
    {
        printf("1.add\n2.edit\n3.delete\n4.view products\n0.exit(0)\n");
        printf("enter your choice : ");
        scanf("%d",&ch);
        switch(ch)
        {
            case 1:
                fp=fopen("product.txt","a+");
                while(y!=0)
                {
                    printf("enter product id : ");
                    scanf("%d",&p.pno);
                    printf("enter product name : ");
                    scanf("%s",p.pname);
                    printf("enter cost : ");
                    scanf("%f",&p.cost);
                    printf("enter no. of products : ");
                    scanf("%d",&p.nop);
                    fwrite(&p,sizeof(p),1,fp);
                    printf("Do you want to add 1 more (1.yes
0.no) : ");

                    scanf("%d",&y);
                }
                fclose(fp);
                break;
            case 2:
                fp=fopen("product.txt","r+");
                //rewind(fp);
                do{
                    printf("enter product no. that u want to edit : ");
                    scanf("%d",&x);

                    while((fread(&p,sizeof(p),1,fp))>0)
                    {
                        if(x==p.pno)
                        {
                            printf("enter details of product
:::\n");

```



```

        printf("enter product no. : ");
        scanf("%d",&p.pno);
        printf("enter product name : ");
        scanf("%s",p.pname);
        printf("enter product cost : ");
        scanf("%f",&p.cost);
        printf("enter no. of products : ");
        scanf("%d",&p.nop);
        c=ftell(fp)-sizeof(p);
        fseek(fp,c,0);
        fwrite(&p,sizeof(p),1,fp);

    }
    break;
}
printf("\ndo you want to edit 1 more (1:yes 0:no) : ");
scanf("%d",&yes);
}while(yes!=0);
    break;
case 3:

    fp=fopen("product.txt","r");
    temp=fopen("temp.txt","w+");
    printf("enter product id u wish to delete : ");
    scanf("%d",&id);
    rewind(fp);
    while((fread(&p,sizeof(p),1,fp)>0))
    {
        if(id!=p.pno)
        {
            fwrite(&p,sizeof(p),1,temp);
        }
    }
    fclose(fp);
    fclose(temp);
    remove("product.txt");
    rename("temp.txt","product.txt");
    break;
case 4:
    fp=fopen("product.txt","r");
    rewind(fp);
    while((fread(&p,sizeof(p),1,fp))!=NULL)
    {
        printf("\n-----");
        printf("\nproduct id : %d ",p.pno);
        printf("\nproduct name : %s ",p.pname);
        printf("\nproduct cost : %f ",p.cost);
        printf("\nno. of products available : %d ",p.nop);
        printf("\n-----");
    }

```

```

        fclose(fp);
        break;

        default :
            printf("thank u\n ");
            break;
    }
    printf("\ndo you want to continue 1.yes 0.no :");
    scanf("%d",&a);
}
}
void customer()
{
    int ch,item,x,i;
    FILE *fp;
    FILE *sp;
    fp=fopen("product.txt","r");
    sp=fopen("select.txt","a+");
    while((fread(&p,sizeof(p),1,fp)>0))
    {
        printf("\n-----");
        printf("\nproduct id : %d ",p.pno);
        printf("\nproduct name : %s ",p.pname);
        printf("\nproduct cost : %f ",p.cost);
        printf("\nn. of products available : %d ",p.nop);
        printf("\n-----");
        printf("\n Do you want to buy 1.yes 0.no : ");
        scanf("%d",&ch);
        if(ch==1)
        {
            printf("\n enter no. of items u want to buy : ");
            scanf("%d",&item);
            if(item>p.nop)
            {
                printf("\n these many items r not available ");
                printf("\nAvailable no. of items are : %d ",p.nop);
                do
                {
                    printf("\nenter no. of items u want to buy : ");
                    scanf("%d",&item);
                } while(item>p.nop);
            }
            b.booked=item;
            for(i=0;p.pname[i]!=NULL;i++)
            {
                b.name[i]=p.pname[i];
            }
            b.cost=p.cost;
            fwrite(&b,sizeof(b),1,sp);
        }
    }
}

```

```

        printf("\ndo you want to continue shopping 1. yes 0.no : ");
        scanf("%d",&x);
        if(x==0)
            break;
    }
    fclose(fp);
    fclose(sp);
    billing();
}
void billing()
{
    FILE *sp,*xp;
    xp=fopen("view.txt","w");
    sp=fopen("select.txt","r");
    float total=0.0,cost;
    rewind(sp);
    printf("\nEnter ur name : ");
    scanf("%s",v.cname);
    while((fread(&b,sizeof(b),1,sp))>0)
    {
        cost=0.0;
        printf("ITEM NAME\tCOST\t\tNO.OF ITEMS\t\tTOTAL\n");
        cost=b.cost*b.booked;
        printf("%s\t\t%f\t\t%f\t\t%f\n",b.name,b.cost,b.booked,cost);
        total=total+cost;

    }
    v.total=total;
    fwrite(&v,sizeof(v),1,xp);
    fclose(xp);
}
void viewbill()
{
    FILE *xp;
    xp=fopen("view.txt","r");
    rewind(xp);
    while((fread(&v,sizeof(v),1,xp))!=NULL)
    {
        printf("\nCUSTOMER NAME : %s ",v.cname);
        printf("\nAmount : %f\n",v.total);} }

```

4. RESULTS

```
hari.sh: 167: hari.sh: list_tracks: not found
administrator@IT-SYS-VirtualBox:~$ gcc sm.c
administrator@IT-SYS-VirtualBox:~$ ./a.out
-----SREE VIDYANIKETHAN ENGG. COLLEGE -----

  MINI PROJECT ON
  SUPERMARKET MANAGEMENT SYSTEM
  BATCH NO.: 1
  ROLL NO.s :17121a1201-09
  ***** MAIN MENU*****
  1.administrator
  2.customer
  3.viewbills
  4.exit

enter ur choice : 1
1.add
2.edit
3.delete
4.view products
0.exit(0)
enter your choice:1
enter product id:1234
enter product name:ghee
enter cost:12
enter no of products:2
do you want to add 1 more (1.yes 0.no):0

do you want to continue (1.yes 0.no):1
1.add
2.edit
3.delete
4.view products
0.exit(0)
enter your choice:
```

Fig 4.1 when user selects administrator the following options appear

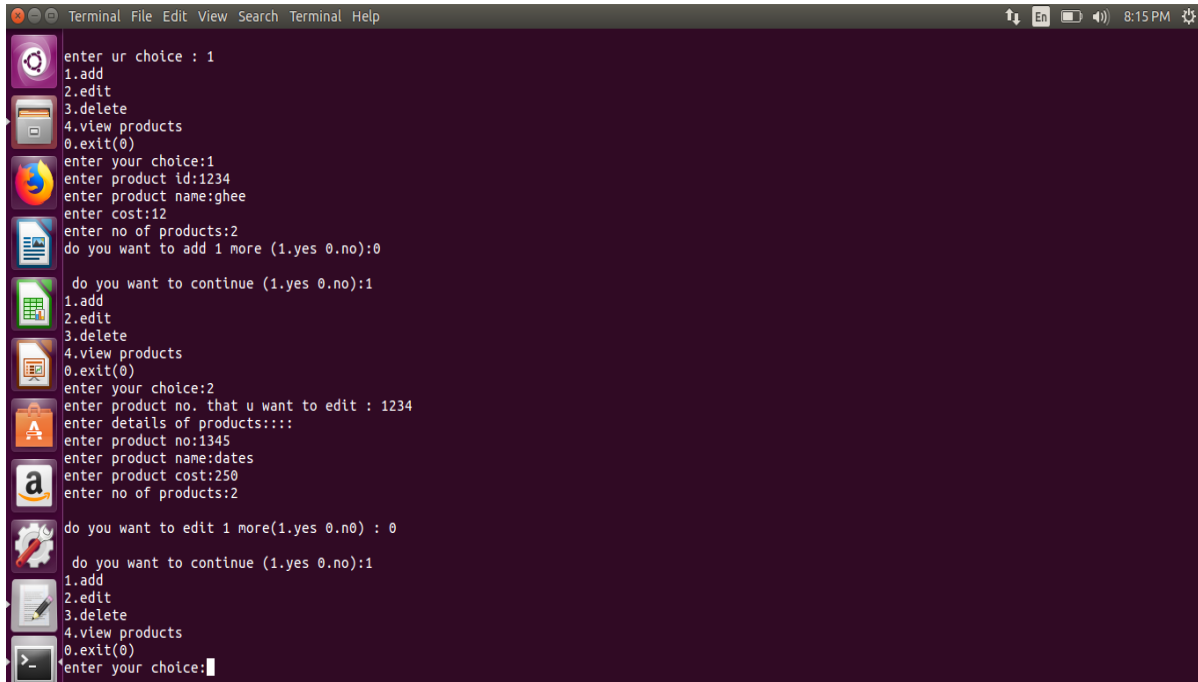
```
hari.sh: 167: hari.sh: list_tracks: not found
administrator@IT-SYS-VirtualBox:~$ gcc sm.c
administrator@IT-SYS-VirtualBox:~$ ./a.out
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  MINI PROJECT ON
  SUPERMARKET MANAGEMENT SYSTEM
  BATCH NO.: 1
  ROLL NO.s :17121a1201-09
  ***** MAIN MENU*****
  1.administrator
  2.customer
  3.viewbills
  4.exit

enter ur choice : 1
1.add
2.edit
3.delete
4.view products
0.exit(0)
enter your choice:1
enter product id:1234
enter product name:ghee
enter cost:12
enter no of products:2
do you want to add 1 more (1.yes 0.no):0

do you want to continue (1.yes 0.no):1
1.add
2.edit
3.delete
4.view products
0.exit(0)
enter your choice:
```

Fig 4.2 when user selects add a product



```
Terminal File Edit View Search Terminal Help
enter ur choice : 1
1.add
2.edit
3.delete
4.view products
0.exit(0)
enter your choice:1
enter product id:1234
enter product name:ghee
enter cost:12
enter no of products:2
do you want to add 1 more (1.yes 0.no):0

do you want to continue (1.yes 0.no):1
1.add
2.edit
3.delete
4.view products
0.exit(0)
enter your choice:2
enter product no. that u want to edit : 1234
enter details of products:::
enter product no:1345
enter product name:dates
enter product cost:250
enter no of products:2

do you want to edit 1 more(1.yes 0.no) : 0

do you want to continue (1.yes 0.no):1
1.add
2.edit
3.delete
4.view products
0.exit(0)
enter your choice:
```

Fig 4.3 user entering the details of the products

```

Terminal File Edit View Search Terminal Help
***** MAIN MENU*****
1.administrator
2.customer
3.viewbills
4.exit
enter ur choice : 2
-----
product id      : 23
product name    : def
product cost    : 34.000000
no. of products available : 1
-----
do you want to buy (1.yes 0.no) : 1
enter no. of items u want to buy : 1
Do ypu want to continue shopping (1.yes 0.no) : 0
Enter ur name : Divya
*****HELLO Divya *****
ITEM NAME      COST      NO. OF ITEMS      TOTAL
def            34.000000      1.000000      34.000000
TOTAL          34.000000
GST -2.5       0.850000
TOTAL BILL     34.849998

THANK YOU - VISIT AGAIN

***** MAIN MENU*****
1.administrator
2.customer
3.viewbills
4.exit
enter ur choice : 

```

Fig 4.4 when user selects customer

```

Terminal Terminal File Edit View Search Terminal Help
administrator@IT-SYS-VirtualBox: ~
TOTAL BILL      34.849998

THANK YOU - VISIT AGAIN

***** MAIN MENU*****
1.administrator
2.customer
3.viewbills
4.exit
enter ur choice : 3
CUSTOMER NAME   : Divya
AMOUNT         : 34.000000

***** MAIN MENU*****
1.administrator
2.customer
3.viewbills
4.exit
enter ur choice : 4
thank youadministrator@IT-SYS-VirtualBox:~$ 
echo "Enter a string to search for in the CD titles \c?"
read searchstr
if [ "$searchstr" = "" ]
then
    return 0
fi
grep "$searchstr" $title_file > $temp_file
set $(wc -l $temp_file)
linesfound=$1
case "$linesfound" in

```

Fig 4.5 when user selects vies bills

5. CONCLUSION AND FUTURE WORK:

This project will help the shopkeeper in fast billing, This project will reduce huge amount of paper work and human effort, Freedom of selection, Shopping is very easy and quick

This project helps in fast billing and This project reduces huge amount of paper work and human effort

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AUTHOR's: NEIL MATTHEW, RICHARD STONES

EDITION : FOURTH EDITION

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AUTHOR: E. BALAGURUSAMY

EDITION: SEVENTH EDITION