***A***

***PROJECT***

***On***

***BILLING SYSTEM of MOBILESHOP***

**SUBMITTED TO: SUBMITTED BY:**

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***ROLL NO.***

**SHRI DAULAT RAM PUBLIC SENIOR SECONDARY**

**SCHOOL**

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**INFORMATIoN**

**This project aims at developing into software that can be used at places like shops and malls to easily maneuver the daily tasks of making handmade bill of each customer and checking whether he/she has really buy a product when they came to return it or etc.**

**This project is time saving as it saves the time of the shops or malls owner as well as customer. Modification of the details of the bill in the stock, addition of more product in shop and keeping up of the details of the shop is much more convenient.**

**In the development of the project, selection of an appropriate programming language and a platform is of primary importance. The major part of the credit goes to the software environment chosen by the developer. Selection of a language from the ocean of languages is very difficult, a developer has to consider various features and functionalities that a particular language can provide.**

**In this project c++ language is used to maintain all the data. It provides many features like file handling, data can be easily maintained and many features that are required while doing a project.**

***CERTIFICATE***

**This is to certify that *VAIBHAV GOEL* student of 12th Non Medical of Shri Daulat Ram Public Secondary Public School prepared project file of BILLING SYSTEM OF MOBILE SHOP under my supervision.**

**This project work is testimony of work done by him.**

**Ms. NEETU**

**(Incharge of C.Sc.)**

**Acknowledgement**

**My foremost and profound gratitude goes to Ms. Neetu for her proficient and enthusiastic guidance and encouragement. The suggestions given undoubtedly helped in supplementing my thoughts in the right direction for attaining the desired objective.**

**My heartfelt gratitude also goes to all the faculty members and Staff of Shri Daulat Ram Public Senior Secondary School who have contributed directly or indirectly towards the successful completion of the project.**

**-Vaibhav goel**

**REQUIREMENTS**

**HARDWARE REQUIREMENT**

1. **Keyboard**
2. **Monitor & CPU**
3. **512 Megbyte RAM**
4. **50 Megabyte Hard Disk**

**SYSTEM REQUIREMENT**

**WINDOWS XP, vista, 7, 8, 10**

**HEADERFILES**

1. **<fstream.h> for using cout, cin, open() and close() functions.**
2. **<conio.h> for using getch(), clrscr() functions.**
3. **<stdlib.h> for using randomize() and random() function.**
4. **<stdio.h> for using removed(), rename(), gets() and puts() functions.**
5. **<string.h> for using strcmp() functions.**
6. **<process.h> for using exit() function.**

***SOURCE CODE*  
//HEADER FILES**

**#include<iostream.h>**

**#include<fstream.h>**

**#include<conio.h>**

**#include<process.h>**

**#include<stdlib.h>**

**#include<stdio.h>**

**#include<string.h>**

**//PASSWORD**

**#define Password 9910425**

**//CLASS CONTAIN MEMBERS**

**class BILLING**

**{**

**//ARRAY OF INT TYPE CONTAIN CODE NO OF ELEMENT**

**int A[20];**

**//CONTAIN NO OF ITEM PURCHASE OF INT TYPE**

**int L;**

**//BILL NO OF INT TYPE CONTAIN BILL NO**

**int Billno;**

**// ARRAY OF LONG TYPE CONTAIN NO OF ITEM PURCHASE**

long Noofitems[20];

**//STRING TO STORE CUSTOMER NAME**

char Cname[20];

**//STATIC STRING CONTAIN NAME OF ITEMS**

static char\* Itemsname[20];

**//ARRAY OF DOUBLE TYPE CONTAIN PRIZE OF ALL ITEM PURCHASE**

double Itemsprize[20];

**// ARRAY OF DOUBLE TYPE CONTAIN PRIZE OF ALL ITEM PURCHASE**

double oneitemprize[20];

**//CONTAIN TOTAL PRIZE OF ITEM PURCHASE**

double Totalprize;

**//CONTAIN MOBILE NO OF CUSTOMER**

char Mobileno[10];

**//CONTAIN DISCOUNT PERCENTAGE**

int Discount;

**//CONTAIN DISCOUNT PRIZE**

double Discountprize;

**//CONTAIN PRIZE TO PAY**

double Prizetopay;

**//CALCULATION FUNCTION TO CALCULATE DISCOUNT PRIZE BY TOTAL PRIZE**

void Calculation()

{

for(int i=0;i<20;i++)

{

Itemsprize[i]=(Noofitems[i]\*oneitemprize[i]);

Totalprize+=Itemsprize[i];

}

if(Totalprize<=25000)

{

Discount=0;

}

else if((Totalprize>25000)&&(Totalprize<=5000))

{

Discount=10;

}

else if((Totalprize>50000)&&(Totalprize<=100000))

{

Discount=12;

}

else

{

Discount=15;

}

Discountprize=(Totalprize\*Discount)/100;

Prizetopay=(Totalprize-Discountprize);

}

public:

void ENTER();

void Display();

void Modification();

int ReturnBillno();

char\* ReturnCname();

char\* ReturnMobileno();

**//CONSTRUCTOR TO ENTER VALUE OF ONE ITEM PRIZE AND SO OTHER**

BILLING()

{

Totalprize=0;

for(int i=0;i<20;i++)

{

Noofitems[i]=0;

}

//1 item prize

oneitemprize[0]=10000;

oneitemprize[1]=70000;

oneitemprize[2]=30000;

oneitemprize[3]=9500;

oneitemprize[4]=60000;

oneitemprize[5]=6000;

oneitemprize[6]=24500;

oneitemprize[7]=5000;

oneitemprize[8]=2000;

oneitemprize[9]=10000;

oneitemprize[10]=11000;

oneitemprize[11]=7999;

oneitemprize[12]=8999;

oneitemprize[13]=70999;

oneitemprize[14]=30000;

oneitemprize[15]=6999;

oneitemprize[16]=10000;

oneitemprize[17]=12000;

oneitemprize[18]=13000;

oneitemprize[19]=20000;

}

};

**//GLOBALE VARIABLE OF CLASS BILLING**

BILLING BILL;

**//STORE ITEM NAME IN STRING( ITEMS NAME)**

char\*BILLING::Itemsname[]={"SAMSUNG","APPLE","MICRO","NOKIA",

"SONY","LG","HTC","MOTO",

"HUAWEI","LEONOVO","XIAOMI",

"ACER","ASUS","OPPO","ONEPLUS","MEIZU",

"BERRY","ALCATEL","ZTE","GIONEE"};

**//FUNCTION TO ENTER INFORMATION ABOUT BILL**

void BILLING::ENTER()

{

L=0;

for(int k=0;k<20;k++)

{

A[k]=0;

}

randomize();

Billno=random(20000)+1000;

cout<<" ";

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Create a Bill\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\n\n Billno\t\t "<<Billno;

gets(Cname);

cout<<"\n Enter code of the item customer purchase(1-20):\n";

cout<<"\*\*\*Enter 0 To leave\*\*\*\n";

for(int i=0;i<20;i++)

{

cout<<" ";

cin>>A[i];

if(A[i]==0)

{

break;

}

L++;

}

cout<<"\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\n\t\t ";

cout<<" Enter no of items purchase";

cout<<"\n\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\n\n\t\Name of items \tNo of item purchase\n";

for(i=0;i<20;i++)

{

for(int j=0;j<L;j++)

{

if(i+1==A[j])

{

cout<<"\t\t";

cout<<Itemsname[i];

cout<<"\t\t\t";

cin>>Noofitems[i];

break;

}

}

}

cout<<"\n Enter Mobileno ";

gets(Mobileno);

void Calculation();

for(k=L;k<20;k++)

{

A[k]=0;

}

}

**//FUNCTION TO DISPLAY BILL**

void BILLING::Display()

{

clrscr();

cout<<"\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\n\t\t\t\ Bill no: "<<Billno;

cout<<"\n\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\n\n Customer name :";

puts(Cname);

cout<<"\ncode of item \t Name of item\tNo of item purchase\tItem prize\n\n";

for(int i=0;i<20;i++)

{

for(int j=0;j<L;j++)

{

if(i+1==A[j])

{

cout<<""<<A[j]<<"\t\t";

cout<<Itemsname[i];

cout<<"\t\t"<<Noofitems[i]<<"\t\t\t"<<Itemsprize[i];

cout<<"\n";

}

}

}

cout<<"\n\n Total prize: \t"<<Totalprize;

cout<<"\n\n Discount: \t\t"<<Discount<<"%";

cout<<"\n\n Discount Prize: \t"<<Discountprize;

cout<<"\n\n Prize to pay: \t"<<Prizetopay;

cout<<"\n\n Mobile no: \t";

cout<<Mobileno;

getch();

}

**//FUNCTION TO MODIFY A BILL**

void BILLING::Modification()

{

int cho;

do

{

clrscr();

cout<<" 1.Modify Customer name:";

cout<<"\n\n 2.Modify item purchase";

cout<<"\n\n 3.ModifyMobile no";

cout<<"\n\n 0.return";

cout<<"\n\n Enter choice";

cin>>cho;

switch(cho)

{

case 0:return;

case 1:clrscr();

cout<<" Enter Customer name:";

gets(Cname);

getch();

break;

case 2:clrscr();

int C;

do

{

cout<<" 1.Change no of item purchase:";

cout<<"\n\n 3.Delete item";

cout<<"\n\n 0.return";

cout<<"\n\n Enter choice:";

cin>>C;

clrscr();

switch(C)

{

case 1:

clrscr();

cout<<"\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\n\t ";

cout<<" Enter no of items purchase:";

cout<<"\n\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\n\n\t Name ofitem\tNo of";

cout<<"item purchase\n";

for(int i=0;i<20;i++)

{

for(int j=0;j<L;j++)

{

if(i+1==A[j])

{

cout<<"\t ";

cout<<Itemsname[i];

cout<<"\t\t\t";

cin>>Noofitems[i];

break;

} }

}

getch();

break;

case 2:

clrscr();

int lo;

lo=L;

if(L<20)

{

cout<<"\n Enter cord of the item:\n";

for(int i=L;i<20;i++)

{

cout<<" ";

cin>>A[i];

if(A[i]==0)

{break;

}

L++;

}

cout<<"\n\n\t Nmae ofitem \tNo of";

cout<<"item purchase\n";

for(i=0;i<20;i++)

{ for(int j=lo;j<L;j++)

{

if(i+1==A[j])

{

cout<<"\t";

cout<<Itemsname[i];

cout<<"\t\t\t";

cin>>Noofitems[i];

break;

}

}

}

}

else

{

cout<<"Sorry all item";

cout<<"is addedin your bill";

}

getch();

break;

case 3:

clrscr();

L=0;

int B[20];

for(int k=0;k<20;k++)

{

B[k]=A[k];

A[k]=0;

}

int b;

int a=0;

cout<<"Enter the cord noof";

cout<<"the item:\n";

cin>>b;

for(int w=0;w<20;w++)

{

if(B[w]!=b)

{

A[a]=B[w];

a++;

if(B[w]==0)

{

break;

}

L++;

}

}

getch();

break;

default:

cout<<" Wrong choice";

getch();

}

BILL.Calculation();

}

while(C!=0);

break;

case 3:

clrscr();

cout<<" Enter the mobile no ";

cin>>Mobileno;

getch();

default:

cout<<"Wrong choice";

}

}while(cho!=0);

}

**//FUNCTION TO RETURN VALUE OF BILLNO**

int BILLING::ReturnBillno()

{

return Billno;

}

**//FUNCTION TO RETURN VALUE OF CUSTOMER NAME**

char\* BILLING::ReturnCname()

{

return Cname;

}

**//FUNCTION TO RETURN VALUE OF MOBILE NO**

char\* BILLING::ReturnMobileno()

{

return Mobileno;

}

**//CALLING FUNCTION**

void choice(int C)

{

int Choice=0;

int flag=0;

int Bn;

long pass;

fstream f;

fstream f1;

switch(C)

{

case 1:

clrscr();

BILL.ENTER();

f.open("Bill.dat",ios::app);

f.write((char\*)&BILL,sizeof(BILL));

f.close();

break;

case 2:

clrscr();

cout<<"\n 1.Search by custome name";

cout<<"\n 2.search by Bill no";

cout<<"\n Enter choice";

cin>>Choice;

switch(Choice)

{

case 1:

char \*name;

cout<<"\n Enter customer name";

gets(name);

f.open("Bill.dat",ios::in);

while(f.read((char\*)&BILL,sizeof(BILL)))

{

if(!strcmp(BILL.ReturnCname(),name))

{BILL.Display();

flag =1;

}

}

break;

case 2:

int b;

cout<<"\n Enter Bill no";

cin>>b;

f.open("BILL.dat",ios::in);

while(f.read((char\*)&BILL,sizeof(BILL)))

{

if(BILL.ReturnBillno()==b)

{

BILL.Display();

flag=1;

}

}

break;

default:

cout<<"wrong choice\n Try again";

}

if(flag==0)

{

cout<<" Bill not found";

}

break;

case 3:

clrscr();

f.open("Bill.dat",ios::in);

while(f.read((char\*)&BILL,sizeof(BILL)))

{

BILL.Display();

}

f.close();

break;

case 4:

clrscr();

cout<<" Enter password:";

cin>>pass;

if(pass!=Password)

{

return;

}

clrscr();

f.open("bill.dat",ios::in);

f1.open("temp.dat",ios::out);

cout<<"\n\n\t Enter bBill no";

cin>>Bn;

while(f.read((char\*)&BILL,sizeof(BILL)))

{

if(BILL.ReturnBillno()==Bn)

{

BILL.Display();

BILL.Modification();

f1.write((char\*)&BILL,sizeof(BILL));

flag=1;

}

if(BILL.ReturnBillno()!=Bn)

{

f1.write((char\*)&BILL,sizeof(BILL));

}

}

f.close();

f1.close();

remove("BILL.dat");

rename("temp.dat","Bill.dat")

;

if(flag==0)

{cout<<" bill not found";

}

break;

case 5:

clrscr();

cout<<"\n\n Enter password:";

cin>>pass;

if(pass!=Password)

{

return;

}

clrscr();

f.open("Bill.dat",ios::in);

f1.open("temp .dat",ios::out);

cout<<"\n\n\n\t\t Enter Bill no";

cin>>Bn;

while(f.read((char\*)&BILL,sizeof(BILL)))

{

if(BILL.ReturnBillno()==Bn)

{

BILL.Display();

cout<<"\n\t\t\t\t\BILL IS DELETED";

flag=1;

}

if(BILL.ReturnBillno()!=Bn)

{

f1.write((char\*)&BILL,sizeof(BILL));

}}

f.close();

f1.close();

remove("Bill.dat");

rename("temp.dat","Bill.dat");

if(flag==0)

{

cout<<"\n\t\t\t BILL NOT FOUND ";

}

break;

case 6:

return;

default:

cout<<"\n Wrong choice";

}

getch();

}

**//MAIN FUNCTION**

void main()

{

clrscr();

cout<<" \n\n\n\n\n\n\n\n\t\t\t\t WELCOME\n\n";

cout<<"\t\t\t\t\TO PM MOBILE SHOP";

getch();

clrscr();

int cho=0;

do{

clrscr();

cout<<"\t\t\t\*\*\*\*\*\*\*\*\*\*\*MAIN MENU\*\*\*\*\*\*\*\*\*\*\*\*\n\n";

cout<<"\t\t\t 1...Create a Bill\n\n";

cout<<"\t\t\t 2...Display a specific Bill\n\n";

cout<<"\t\t\t 4...Modify a specific Bill\n\n";

cout<<"\t\t\t 5...Delete a bill \n\n";

cout<<"\t\t\t 6...EXIT\n\n";

cout<<"\n\n\n\n\n\n\n\n\t\t\t\t\t\tENTER YOUR CHOICE:::";

cin>>cho;

choice(cho);

}while(cho!=6);

clrscr();

cout<<"\n\n\n\n\n\n\n\n\n\n\n";

cout<<" ";

cout<<" \*\*\*\*\*\*\*\*\*THANK YOU\*\*\*\*\*\*\*\*\*\*\*";

getch();

}