**CANTEEN**

**MANAGEMENT**

**SYSTEM**

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**PROJECT DESCRIPTION**

This project CANTEEN MANAGEMENT SYSTEM includes some facilities of customer's and products search, display, modification, delete etc. This software searches the client data which is store in the record and then gives permission to place the order by the customer. The software used for small scale canteens which have limited customers and products and wants to maintain the records.

**CLASS DIAGRAM**

**CLASS CUSTOMER**

**CUSTOMER**

**DATA MEMBER**

* **cust\_id**
* **cname**
* **address**
* **phno**

**MEMBER FUNCTIONS**

* **modifycust\_data()**
* **getcustid()**
* **getcust\_nm()**
* **getcust\_add()**
* **getphno()**
* **cust\_input()**
* **show\_cust()**
* **showallcust**
* **showcustdatamulti**

**s**

**DATA MEMBER**

* **prodid**
* **name**
* **company**
* **qty**
* **price**
* **dis**

**MEMBER FUNCTIONS**

* **modifydata()**
* **showdatamulti()**
* **show\_prod()**
* **showall()**
* **retpno()**
* **retprice()**
* **getcompany()**
* **getname()**
* **getqty()**
* **retdis()**
* **setqty()**

**CLASS PRODUCT**

**SOURCE CODE**

#include<iostream>

#include<iomanip>

#include<string>

#include<cstring>

#include<cstdlib>

#include<cstdio>

#include<iostream>

#include<fstream>

#include<sstream>

#include<typeinfo>

#include<windows.h>

using namespace std;

struct order

{

int prodid1;

char pname1[50];

char compy1[50];

int qty1;

float price1,dis1;

}o1[50];

int orderk=0;

void mainMenu();

void write\_customer1();

void middleadminmenu();

void copyme(int k,order order1[],int q1,int &c2);

void intromain();

int getproduct();

int getcustomers();

void display\_all();

void display\_all\_cust();

void prod\_tabular();

void admin\_menu3();

void admin\_menu4();

void admin\_menu5();

void modify\_record(int n);

void delete\_record(int n);

void againopenandclose();

void againopenandclosecust();

int search(int p);

void changeqty(int pr1,int q11);

//CUSTOMER INFO

class customer

{

int cust\_id;

char cname[100];

char address[100];

char phno[15];

public:

void modifycust\_data(int n1,char nm[15],char add[15],char q[15]);

int getcustid()

{

return cust\_id;

}

char \*getcustnm()

{

return cname;

}

char \*getcustadd()

{

return address;

}

char \*getphno()

{

return phno;

}

//function for taking input from customer

void cust\_input(int custid)

{

cout<<"-------------------------------------------------------------------------"<<endl;

cout<<"CUSTOMER NO: ";

cust\_id=custid;

cout<<cust\_id<<endl;

cout<<"NAME OF CUSTOMER:"<<endl;

cin>>cname;

cout<<"ADDRESS:"<<endl;

cin>>address;

cout<<"PHONE NO.:"<<endl;

cin>>phno;

cout<<"-------------------------------------------------------------------------"<<endl;

}

//function to show customer details

void show\_cust()

{

cout<<"-------------------------------------------------------------------------"<<endl;

cout<<"CUSTOMER NO:"<<endl;

cout<<cust\_id<<endl;

cout<<"NAME OF CUSTOMER:"<<endl;

cout<<cname<<endl;

cout<<"ADDRESS:"<<endl;

cout<<address<<endl;

cout<<"PHONE NO.:"<<endl;

cout<<phno<<endl;

cout<<"-------------------------------------------------------------------------"<<endl;

}

void showallcust(int c)

{

cout<<" "<<cust\_id<<setw(15)<<cname<<setw(23)<<address<<setw(27)<<phno<<endl;

}

void showcustdatamulti()

{

cout<<"-------------------------------------------------------------------------"<<endl;

cout<<"CUSTOMER NO:"<<endl;

cout<<cust\_id<<endl;

cout<<"NAME OF CUSTOMER:"<<endl;

cout<<cname<<endl;

cout<<"ADDRESS:"<<endl;

cout<<address<<endl;

cout<<"PHONE NO.:"<<endl;

cout<<phno<<endl;

cout<<"-------------------------------------------------------------------------"<<endl;

}

};

//function to modify

void customer::modifycust\_data(int n1,char nm[15],char add[15],char q[15])

{

char tmpnm[40],tmpnm2[40],tmpnm3[15];

char yes1,yes2,yes3;

cust\_id=n1;

strcpy(cname,nm);

cout<<"NAME OF CUSTOMER:"<<endl;

cout<<cname<<endl;

cout<<"Want to change the name of customer ? (Yes[ y or Y ] or NO [n or N])"<<endl;

int flag=0;

while(1)

{

cin>>yes1;

if(yes1== 'Y' || yes1== 'y')

{

cout<<"Enter new name\n";

cin>>tmpnm;

flag=1;

break;

}

if(yes1== 'N' || yes1== 'n')

{

flag=0;

break;

}

}

if(flag==1)

{

strcpy(cname,tmpnm);

}

strcpy(address,add);

cout<<"CUSTOMER ADDRESS:"<<endl;

cout<<address<<endl;

cout<<"Want to change the address ? (Yes[ y or Y ] or NO [n or N])"<<endl;

flag=0;

while(1)

{

cin>>yes2;

if(yes2== 'Y' || yes2== 'y')

{

cout<<"Enter new address\n";

cin>>tmpnm2;

flag=1;

break;

}

if(yes2== 'N' || yes2== 'n')

{

flag=0;

break;

}

}

if(flag==1)

{

strcpy(address,tmpnm2);

}

strcpy(phno,q);

cout<<"CUSTOMER PHONE NO.:"<<endl;

cout<<phno<<endl;

cout<<"Want to change the phone no. ? (Yes[ y or Y ] or NO [n or N])"<<endl;

flag=0;

while(1)

{

cin>>yes3;

if(yes3== 'Y' || yes3== 'y')

{

cout<<"Enter new phone no.\n";

cin>>tmpnm3;

flag=1;

break;

}

if(yes3== 'N' || yes3== 'n')

{

flag=0;

break;

}

}

if(flag==1)

{

strcpy(phno,tmpnm3);

}

if((yes3== 'Y' || yes3== 'y') || (yes2== 'Y' || yes2== 'y') || (yes1== 'Y' || yes1== 'y'))

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* NEW CUSTOMER RECORD SAVED \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

else

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* NO CUSTOMER RECORD CHANGED \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

}

//Function to add the records in (convert to csv) file

void write\_customer()

{

ofstream objoff;

customer cobj;

objoff.open("customer.csv",ios::out|ios::app);

//intromain();

int r=getcustomers();

if(r>100) //1000

{

r=1; // r=100

}

cobj.cust\_input(r);

objoff.write((char\*)&cobj,sizeof(customer));

objoff.close();

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* CUSTOMER RECORD SAVED \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cin.ignore();

cin.get();

}

//function to add the record in a file ends here

//Function to check the customer number already given or not

int getcustomers()

{

ifstream objiff;

customer cust;

int count=0;

objiff.open("customer.csv",ios::binary);

objiff.seekg(0,ios::beg);

if(!objiff)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

}

while(objiff.read((char \*) &cust, sizeof(customer)))

{

count++;

}

//\*\*\*\*\*\*\*\*\*\*\*jump to the last line

objiff.seekg(count-sizeof(cust),ios::beg);

objiff.read((char \*) &cust, sizeof(customer));

count=cust.getcustid();

count++;

objiff.close();

return count;

}

//Check the customer number ends here

// Function to read specific record from file

void display\_cust\_sp(int n)

{

ifstream objfp;

customer cust;

int flag=0;

objfp.open("customer.csv",ios::binary);

if(!objfp)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

return;

}

while(objfp.read((char\*)&cust,sizeof(customer)))

{

if(cust.getcustid()==n)

{

intromain();

cust.show\_cust();

flag=1;

}

}

objfp.close();

if(flag==0)

cout<<"\n\nrecord not exist"<<endl;

cin.get();

}

//Customer record sepecific

//FUNCTION TO DISPLAY ALL THE CUSTOMER TABULAR FORM

void cust\_tabular()

{

int r=0,col=10;

customer cust;

ifstream inFile;

inFile.open("customer.csv",ios::binary);

if(!inFile)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

return;

}

display\_all\_cust();

while(inFile.read((char \*) &cust, sizeof(customer)))

{

if(r<=12)

{

r++;

cust.showallcust(col);

col++;

}

else

{

cout<<"----------------------------- Press any key -----------------------------"<<endl;

cin.get();

display\_all\_cust();

col=10;

r=0;

}

}

inFile.close();

cin.get();

}

//tabular forms ends

//function to display all the records of product

void display\_all\_cust()

{

intromain();

cout<<"========================================================================="<<endl;

cout<<" \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* CUSTOMER DETAILS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* "<<endl;

cout<<"========================================================================="<<endl;

cout<<"CUST.NO"<<setw(13)<<"NAME"<<setw(23)<<"ADDRESS"<<setw(27)<<"PHONE NO"<<endl;

cout<<"-------------------------------------------------------------------------"<<endl;

}

//DISPLAY ALL ENDS HERE

//FUNCTION TO MODIFY customer RECORD

void modify\_cust\_record(int n)

{

customer cust,temp;

char tmpnm[50],tmpaddress[50];

ifstream inFile;

int fpos1=-1;

inFile.open("customer.csv",ios::binary);

if(!inFile)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

return;

}

int flag=0;

while(inFile.read((char \*) &cust, sizeof(customer)))

{

if(cust.getcustid()==n)

{

cust.showcustdatamulti();

flag=1;

}

}

inFile.close();

if(flag==0)

cout<<"\n\nrecord not exist"<<endl;

else

{

//modifying the records starts here

fstream File;

File.open("customer.csv",ios::binary|ios::in|ios::out);

if(!File)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

return;

}

while(File.read((char \*) &cust, sizeof(customer)))

{

if(cust.getcustid()==n)

{

fpos1=(int)File.tellg();

break;

}

}

File.seekp(fpos1-sizeof(customer),ios::beg);

strcpy(tmpnm,cust.getcustnm());

strcpy(tmpaddress,cust.getcustadd());

char q1[15];

strcpy(q1,cust.getphno());

cout<<"============ ENTER NEW VALUES FOR THE RECORDS GIVEN ABOVE ============="<<endl;

temp.modifycust\_data(n,tmpnm,tmpaddress,q1);

File.write((char \*) &temp, sizeof(customer));

File.close();

}

}

//FUNCTION TO DELETE THE RECORD OF THE CUSTOMER AVAILABLE

void deletecust\_record(int n)

{

customer cust;

ifstream inFile;

inFile.open("customer.csv",ios::binary);

if(!inFile)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

return;

}

int flag=0;

while(inFile.read((char \*) &cust, sizeof(customer)))

{

if(cust.getcustid()==n)

{

intromain();

cust.showcustdatamulti();

flag=1;

}

}

inFile.close();

char ch;

if(flag==0)

cout<<"\n\nrecord not exist"<<endl;

else

{

//Deletion of the records starts from here

cout<<"DO YOU WANT TO DELETE THE RECORDS GIVEN ABOVE [YES(Y or y) OR NO(N or n)]"<<endl;

cin>>ch;

if (toupper(ch)=='Y')

{

ofstream outFile;

outFile.open("Temp2.csv",ios::binary);

ifstream objiff("customer.csv",ios::binary);

objiff.seekg(0,ios::beg);

while(objiff.read((char \*) &cust, sizeof(customer)))

{

if(cust.getcustid()!=n)

{

outFile.write((char \*) &cust, sizeof(customer));

}

}

outFile.close();

objiff.close();

remove("customer.csv");

rename("Temp2.csv","customer.csv");

againopenandclosecust();

cout<<"---------------------------Record Deleted--------------------------------"<<endl;

}

}

cin.get();

}

//Delete record ends

void againopenandclosecust()

{

ifstream inFile;

customer cust;

inFile.open("customer.csv",ios::binary);

if(!inFile)

{

cin.get();

return;

}

while(inFile.read((char \*) &cust, sizeof(customer)))

{

}

inFile.close();

}

//Search the customer

int searchcust(int p)

{

customer cust;

int tmprt=0;

ifstream inFile;

inFile.open("customer.csv",ios::binary);

if(!inFile)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

return -1;

}

int flag=0;

while(inFile.read((char \*) &cust, sizeof(customer)))

{

if(cust.getcustid()==p)

{

cust.showcustdatamulti();

flag=1;

tmprt=(int)inFile.tellg();

break;

}

}

inFile.close();

if(flag==0)

return 1;

//cout<<"\n\nrecord not exist";

else

{

return tmprt;

}

}

void write\_customer1()

{

ofstream objoff;

customer cobj;

objoff.open("customer.csv",ios::out|ios::app);

int r=getcustomers();

if(r>100) //1000

{

r=1; // r=100

}

cobj.cust\_input(r);

objoff.write((char\*)&cobj,sizeof(customer));

objoff.close();

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* CUSTOMER RECORD SAVED \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cin.ignore();

cin.get();

admin\_menu5();

}

//Function before place order and then call place order function

int before\_order()

{

int f=-1,num=0;

customer cust;

cout<<"ENTER THE CUSTOMER ID TO BILL:"<<endl;

cin>>num;

ifstream inFile;

inFile.open("customer.csv",ios::binary);

if(!inFile)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

return -1;

}

while(inFile.read((char \*) &cust, sizeof(customer)))

{

if(cust.getcustid()==num)

{

cust.showcustdatamulti();

f=1;

//tmprt=(int)inFile.tellg();

break;

}

}

inFile.close();

return f;

}

//Customer information ends

class product

{

int prodid;

char name[50];

char company[50];

int qty;

float price,dis;

public:

product()

{

qty=0;

price=0;

dis=0;

}

void modifydata(int n1,char snm[15],char companynm[15],int q);

void showdatamulti()

{

cout<<"-------------------------------------------------------------------------"<<endl;

cout<<"PRODUCT NO:"<<endl;

cout<<prodid<<endl;

cout<<"NAME OF PRODUCT:"<<endl;

cout<<name<<endl;

cout<<"COMPANY:"<<endl;

cout<<company<<endl;

cout<<"PRODUCT PRICE:"<<endl;

cout<<price<<endl;

cout<<"QUANTITY:"<<endl;

cout<<qty<<endl;

cout<<"DISCOUNT%:"<<endl;

cout<<dis<<"%"<<endl;

cout<<"-------------------------------------------------------------------------"<<endl;

}

void create\_prod(int rn1)

{

cout<<"-------------------------------------------------------------------------"<<endl;

cout<<"PRODUCT NO: ";

prodid=rn1;

cout<<prodid<<endl;

cout<<"NAME OF PRODUCT:"<<endl;

cin>>name;

cout<<"COMPANY:"<<endl;

cin>>company;

cout<<"PRODUCT PRICE:"<<endl;

cin>>price;

cout<<"QUANTITY:"<<endl;

cin>>qty;

cout<<"DISCOUNT%:"<<endl;

cin>>dis;

cout<<"-------------------------------------------------------------------------"<<endl;

}

void show\_prod()

{

cout<<"-------------------------------------------------------------------------"<<endl;

cout<<"PRODUCT NO: ";

cout<<prodid<<endl;

cout<<"NAME OF PRODUCT: ";

cout<<name<<endl;

cout<<"COMPANY: ";

cout<<company<<endl;

cout<<"PRODUCT PRICE: ";

cout<<price<<endl;

cout<<"QUANTITY: ";

cout<<qty<<endl;

cout<<"DISCOUNT%: ";

cout<<dis<<"%"<<endl;

cout<<"-------------------------------------------------------------------------"<<endl;

}

//Function shows data tabular form

void showall(int c)

{

cout<<" "<<prodid<<setw(15)<<name<<setw(11)<<company<<setw(11)<<"Rs."<<price<<setw(10)<<qty<<setw(13)<<dis<<"%"<<endl;

}

//ends here

int retpno()

{

return prodid;

}

float retprice()

{

return price;

}

char\* getcompany()

{

return company;

}

char\* getname()

{

return name;

}

int getqty()

{

return qty;

}

float retdis()

{

return dis;

}

void setqty(int q21)

{

qty=q21;

}

};

//class ends here

// global declaration for stream object, object

//modify product

void product::modifydata(int n1,char snm[15],char companynm[15],int q)

{

char tmpnm[40],tmpnm2[40];

char yes1,yes2;

cout<<"PRODUCT NO: ";

prodid=n1;

cout<<prodid<<endl;

strcpy(name,snm);

cout<<"NAME OF PRODUCT:"<<endl;

cout<<name<<endl;

cout<<"Want to change the name of product ? (Yes[ y or Y ] or NO [n or N])"<<endl;

int flag=0;

while(1)

{

cin>>yes1;

if(yes1== 'Y' || yes1== 'y')

{

cout<<"Enter new name\n";

cin>>tmpnm;

flag=1;

break;

}

if(yes1== 'N' || yes1== 'n')

{

flag=0;

break;

}

}

if(flag==1)

{

strcpy(name,tmpnm);

}

strcpy(company,companynm);

//COMPANY NAME TO BE MODIFY

cout<<"COMPANY NAME:"<<endl;

cout<<company<<endl;

cout<<"Want to change the company name ? (Yes[ y or Y ] or NO [n or N])"<<endl;

flag=0;

while(1)

{

cin>>yes2;

if(yes2== 'Y' || yes2== 'y')

{

cout<<"Enter new company name:\n";

cin>>tmpnm2;

flag=1;

break;

}

if(yes2== 'N' || yes2== 'n')

{

flag=0;

break;

}

}

if(flag==1)

{

strcpy(company,tmpnm2);

}

cout<<"PRICE:"<<endl;

//add the line to display price

float tmppr=0;

char yes4,yes3,yes5;

cout<<"Want to change the price of product ? (Yes[ y or Y ] or NO [n or N])"<<endl;

flag=0;

while(1)

{

cin>>yes3;

if(yes3== 'Y' || yes3== 'y')

{

cout<<"Enter new price of product:\n";

cin>>tmppr;

flag=1;

break;

}

if(yes3== 'N' || yes3== 'n')

{

flag=0;

break;

}

}

if(flag==1)

{

price=tmppr;

}

cout<<"QUANTITY:"<<endl;

//add the line to display quantity

int tmpqty=0;

cout<<"Want to change the quantity of product ? (Yes[ y or Y ] or NO [n or N])"<<endl;

flag=0;

while(1)

{

cin>>yes4;

if(yes4== 'Y' || yes4== 'y')

{

cout<<"Enter new quantity:\n";

cin>>tmpqty;

flag=1;

break;

}

if(yes4== 'N' || yes4== 'n')

{

flag=0;

break;

}

}

if(flag==1)

{

qty=tmpqty;

}

cout<<"DISCOUNT%:"<<endl;

//add the line to display discount

float tmpdis=0;

cout<<"Want to change the discount of product ? (Yes[ y or Y ] or NO [n or N])"<<endl;

flag=0;

while(1)

{

cin>>yes5;

if(yes5== 'Y' || yes5== 'y')

{

cout<<"Enter new discount"<<'%'<<"on the product:\n";

cin>>tmpdis;

flag=1;

break;

}

if(yes5== 'N' || yes5== 'n')

{

flag=0;

break;

}

}

if(flag==1)

{

dis=tmpdis;

}

if((yes3== 'Y' || yes3== 'y') || (yes2== 'Y' || yes2== 'y') || (yes1== 'Y' || yes1== 'y') || (yes4== 'Y' || yes4== 'y') || (yes5== 'Y' || yes5== 'y'))

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* NEW PRODUCT RECORD SAVED \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

else

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* NO PRODUCT RECORD CHANGED \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

}

//Class function outside

fstream fp;

product pr;

// function to write in file

void write\_book()

{

fp.open("product.csv",ios::out|ios::app);

int rnn=getproduct();

if(rnn>100)

{

rnn=1;

}

pr.create\_prod(rnn);

fp.write((char\*)&pr,sizeof(product));

fp.close();

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* PRODUCTS RECORD SAVED \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cin.ignore();

cin.get();

}

//Function to check the product number already given or not

int getproduct()

{

ifstream objiff;

product st;

int count=0;

objiff.open("product.csv",ios::binary);

objiff.seekg(0,ios::beg);

if(!objiff)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

}

while(objiff.read((char \*) &st, sizeof(product)))

{

count++;

}

objiff.seekg(count-sizeof(st),ios::beg);

objiff.read((char \*) &st, sizeof(product));

count=st.retpno();

count++;

objiff.close();

return count;

}

//Function to read specific record from file

void display\_sp(int n)

{

int flag=0;

fp.open("product.csv",ios::in);

if(!fp)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

return;

}

while(fp.read((char\*)&pr,sizeof(product)))

{

if(pr.retpno()==n)

{

intromain();

pr.show\_prod();

flag=1;

}

}

fp.close();

if(flag==0)

cout<<"\n\nrecord not exist"<<endl;

cin.get();

}

//Function to place order and generating bill for PRODUCT PURCHASED

void place\_order()

{

order o1[50];

int c=0,pr1=0;

float amt=0,damt=0,total=0,ttaxt=0;

int k=0,q1;

char ch='Y';

int ptx[100];

int v=0;

int value=before\_order();

if(value==1)

{

cout<<endl;

prod\_tabular();

cout<<"========================================================================"<<endl;

cout<<" PLACE YOUR ORDER "<<endl;

cout<<"========================================================================"<<endl;

do

{

cout<<"ENTER THE PRODUCT NO: "<<endl;

cin>>pr1;

k=search(pr1);

if(k>0)

{

cout<<"Enter the Quantity:"<<endl;

cin>>q1;

changeqty(pr1,q1);

copyme(k,o1,q1,c);

ptx[v]=pr1;

v++;

}

else

{

cout<<"PRODUCT not found"<<endl;

}

cout<<"Do you want purchase more ? (Yes[ y or Y ] or NO [n or N])"<<endl;

cin>>ch;

}while(ch=='y' || ch=='Y');

cout<<"Thank You For Placing The Order ........"<<endl<<endl;

cin.get();

cout<<"========================================================================\n"<<endl;

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* INVOICE \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cout<<"------------------------------------------------------------------------"<<endl;

cout<<"PR.No."<<setw(7)<<"NAME"<<setw(10)<<"Qty"<<setw(15)<<"Price"<<setw(13)<<"Amount"<<setw(20)<<"Amount - discount"<<endl;

int yy=8;

for(int x=0;x<c;x++)

{

amt=o1[x].qty1\*o1[x].price1;

damt=amt-o1[x].dis1;

cout<<ptx[x]<<setw(13)<<o1[x].pname1<<setw(8)<<o1[x].qty1<<setw(15)<<"Rs."<<o1[x].price1<<setw(8)<<"Rs."<<amt<<setw(10)<<"Rs."<<damt<<endl;

total+=damt;

//ttaxt+=o1[x].tax1;

yy++;

}

ttaxt=18;

cout<<"-------------------------------------------------------------------------"<<endl;

yy++;

cout<<"\t\t\tTOTAL AMOUNT : "<<"Rs."<<total<<endl;

yy++;

cout<<"\t\t\tCGST : "<<"+"<<ttaxt/2<<"%"<<endl;

cout<<"\t\t\tSGST : "<<"+"<<ttaxt/2<<"%"<<endl;

yy++;

cout<<"-------------------------------------------------------------------------"<<endl;

yy++;

cout<<"\t\t\tNET TOTAL : "<<"Rs."<<(total+((ttaxt\*total)/100))<<endl;

yy++;

cout<<"-------------------------------------------------------------------------"<<endl;

cout<<"\n\n\t WE ARE EAGERLY LOOKING FORWARD TO SERVE YOU AGAIN\n";

cout<<"\n\t\t\t HAVE A NICE DAY !\n\n";

cout<<"=========================================================================\n"<<endl;

}

else

{

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* YOUR ID IS WRONG \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

}

}

//FUNCTION TO DISPLAY ALL THE PRODUCT TABULAR FORM

void prod\_tabular()

{

int r=0,col=10;

product st;

ifstream inFile;

inFile.open("product.csv",ios::binary);

if(!inFile)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

return;

}

display\_all();

while(inFile.read((char \*) &st, sizeof(product)))

{

if(r<=12)

{

r++;

st.showall(col);

col++;

}

else

{

cout<<"----------------------------- Press any key ----------------------------"<<endl;

cin.get();

display\_all();

col=10;

r=0;

}

}

inFile.close();

cin.get();

}

//Tabular form ends here

//Function to display all the records of product

void display\_all()

{

cout<<"========================================================================"<<endl;

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* PRODUCTS DETAILS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cout<<"========================================================================"<<endl;

cout<<"PROD.NO"<<setw(10)<<"NAME"<<setw(13)<<"COMPANY"<<setw(12)<<"PRICE"<<setw(13)<<"QUANTITY"<<setw(15)<<"DISCOUNT"<<endl;

cout<<"------------------------------------------------------------------------"<<endl;

}

//FUNCTION TO MODIFY RECORD

void modify\_record(int n)

{

product st,temp;

char tmpnm[50],tmpcompany[50];

ifstream inFile;

int fpos=-1;

inFile.open("product.csv",ios::binary);

if(!inFile)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

return;

}

int flag=0;

while(inFile.read((char \*) &st, sizeof(product)))

{

if(st.retpno()==n)

{

st.showdatamulti();

flag=1;

}

}

inFile.close();

if(flag==0)

cout<<"\n\nrecord not exist"<<endl;

else

{

fstream File;

File.open("product.csv",ios::binary|ios::in|ios::out);

if(!File)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

return;

}

while(File.read((char \*) &st, sizeof(product)))

{

if(st.retpno()==n)

{

fpos=(int)File.tellg();

break;

}

}

File.seekp(fpos-sizeof(product),ios::beg);

strcpy(tmpnm,st.getname());

strcpy(tmpcompany,st.getcompany());

int q1=st.getqty();

cout<<"=========== ENTER NEW VALUES FOR THE RECORDS GIVEN ABOVE ==========="<<endl;

temp.modifydata(n,tmpnm,tmpcompany,q1);

File.write((char \*) &temp, sizeof(product));

File.close();

}

}

//FUNCTION TO DELETE THE RECORD OF THE PRODUCTS NOT AVAILABLE

void delete\_record(int n)

{

product st;

ifstream inFile;

inFile.open("product.csv",ios::binary);

if(!inFile)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

return;

}

int flag=0;

while(inFile.read((char \*) &st, sizeof(product)))

{

if(st.retpno()==n)

{

intromain();

st.showdatamulti();

flag=1;

}

}

inFile.close();

char ch;

if(flag==0)

cout<<"\n\nrecord not exist"<<endl;

else

{

cout<<"DO YOU WANT TO DELETE THE RECORDS GIVEN ABOVE [YES(Y or y) OR NO(N or n)]"<<endl;

cin>>ch;

if (toupper(ch)=='Y')

{

ofstream outFile;

outFile.open("Temp1.csv",ios::binary);

ifstream objiff("product.csv",ios::binary);

objiff.seekg(0,ios::beg);

while(objiff.read((char \*) &st, sizeof(product)))

{

if(st.retpno()!=n)

{

outFile.write((char \*) &st, sizeof(product));

}

}

outFile.close();

objiff.close();

remove("product.csv");

rename("Temp1.csv","product.csv");

againopenandclose();

cout<<"------------------------------Record Deleted----------------------------"<<endl;

}

}

cin.get();

}

void againopenandclose()

{

ifstream inFile;

product st;

inFile.open("product.csv",ios::binary);

if(!inFile)

{

cin.get();

return;

}

while(inFile.read((char \*) &st, sizeof(product)))

{

}

inFile.close();

}

//Searching the product

int search(int p)

{

product st;

int tmprt=0;

ifstream inFile;

inFile.open("product.csv",ios::binary);

if(!inFile)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

return -1;

}

int flag=0;

while(inFile.read((char \*) &st, sizeof(product)))

{

if(st.retpno()==p)

{

st.showdatamulti();

flag=1;

tmprt=(int)inFile.tellg();

break;

}

}

inFile.close();

if(flag==0)

return 1;

else

{

return tmprt;

}

}

//Function to change quantity

void changeqty(int pr1,int q11)

{

product st;

int fpos=-1;

fstream File;

File.open("product.csv",ios::binary|ios::in|ios::out);

if(!File)

{

cout<<"File could not be open !! Press any Key..."<<endl;

cin.get();

return;

}

while(File.read((char \*) &st, sizeof(product)))

{

if(st.retpno()==pr1)

{

fpos=(int)File.tellg();

break;

}

}

File.seekp(fpos-sizeof(product),ios::beg);

int q1=st.getqty();

q1=q1-q11;

if(q1>0)

{

st.setqty(q1);

} else

{

cout<<"Insufficient quantity !"<<endl;

cout<<"Do you want to place the order again ? [y / n]"<<endl;

char ans;

cin>>ans;

if(ans == 'y')

{

place\_order();

} else

{

cout<<"See you again !"<<endl;

}

}

File.write((char \*) &st, sizeof(product));

File.close();

}

//Fuction to copy all record to a structure

void copyme(int k2,order order1[50],int q1,int &c2)

{

ifstream objiff2("product.csv",ios::binary);

product bk1;

objiff2.seekg(k2-sizeof(product));

objiff2.read((char\*)&bk1,sizeof(product));

strcpy(order1[c2].pname1,bk1.getname());

strcpy(order1[c2].compy1,bk1.getcompany());

order1[c2].dis1=bk1.retdis();

order1[c2].price1=bk1.retprice();

//COPY RECORD

order1[c2].qty1=q1;

c2++;

objiff2.close();

}

// INTRODUCTION FUNCTION

void intro()

{

cout<<endl;

cout<<"========================================================================="<<endl;

cout<<"-------------------------------------------------------------------------"<<endl;

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* C A N T E E N M A N A G E M E N T \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cout<<"-------------------------------------------------------------------------"<<endl;

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* S Y S T E M \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cout<<"-------------------------------------------------------------------------"<<endl;

cout<<"PROJECT : "<<endl;

cout<<"MADE BY : 1 - SWETA BEHERA , ID- B117054"<<endl;

cout<<" 2 - RUPESH KRISHNA JHA , ID- B117043"<<endl;

cout<<" 3 - SAYAN DE BHOWMICK , ID- B117047"<<endl;

cout<<" 4 - PULI KIRAN , ID- B117038"<<endl;

cout<<" 5 - SUMEET SAGAR LENKA , ID- B117052"<<endl;

cout<<endl;

cout<<"---- INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY,BHUBANESWAR ----"<<endl;

cout<<"========================================================================="<<endl;

cin.get();

}

// ADMINSTRATOR MENU1 FUNCTION

void admin\_menu1()

{

char ch2;

int num;

cout<<"\n========================== CUSTOMERS MENU =========================="<<endl;

cout<<"1.CREATE CUSTOMERS DETAILS"<<endl;

cout<<"2.DISPLAY ALL CUSTOMERS DETAILS"<<endl;

cout<<"3.SEARCH RECORD (QUERY) "<<endl;

cout<<"4.MODIFY CUSTOMERS RECORDS"<<endl;

cout<<"5.DELETE CUSTOMERS RECORDS"<<endl;

cout<<"6.BACK TO MAIN MENU"<<endl;

cout<<"Please Enter Your Choice (1-6) "<<endl;

cin>>ch2;

switch(ch2)

{

case '1':

write\_customer();

admin\_menu1();

break;

case '2':

cust\_tabular();

admin\_menu1();

break;

case '3':

cout<<"ENTER THE CUST ID TO BE SEARCHED:"<<endl;

cin>>num;

display\_cust\_sp(num);

admin\_menu1();

break;

case '4':

cust\_tabular();

cout<<"\nENTER THE CUST ID TO BE MODIFIED:"<<endl;

cin>>num;

modify\_cust\_record(num);

admin\_menu1();

break;

case '5':

cust\_tabular();

cout<<"\nENTER THE CUST ID TO BE DELETED:"<<endl;

cin>>num;

deletecust\_record(num);

admin\_menu1();

break;

case '6':

mainMenu();

break;

default:

cout<<"Please enter valid option"<<endl;

}

}

//CUSTOMERS MENU FUNCTION ENDS HERE

//ADMINSTRATOR MENU 2 FUNCTION

void admin\_menu()

{

char ch2;

int num;

cout<<"\n========================== PRODUCTS MENU ==========================="<<endl;

cout<<"1.CREATE PRODUCTS"<<endl;

cout<<"2.DISPLAY ALL PRODUCTS AVAILABLE"<<endl;

cout<<"3.SEARCH RECORD (QUERY) "<<endl;

cout<<"4.MODIFY PRODUCTS"<<endl;

cout<<"5.DELETE PRODUCTS"<<endl;

cout<<"6.BACK TO MAIN MENU"<<endl;

cout<<"Please Enter Your Choice (1-6) "<<endl;

cin>>ch2;

switch(ch2)

{

case '1':

write\_book();

admin\_menu();

break;

case '2':

prod\_tabular();//display\_all();

admin\_menu();

break;

case '3':

cout<<"\nENTER THE PRODUCT ID TO BE SEARCHED:"<<endl;

cin>>num;

display\_sp(num);

admin\_menu();

break;

case '4':

prod\_tabular();

cout<<"\nENTER THE PRODUCT ID TO BE MODIFIED:"<<endl;

cin>>num;

modify\_record(num);

admin\_menu();

break;

case '5':

prod\_tabular();

cout<<"\nENTER THE PRODUCT ID TO BE DELETED:"<<endl;

cin>>num;

delete\_record(num);

admin\_menu();

break;

case '6':

mainMenu();

break;

default:

cout<<"\a";

admin\_menu();

}

}

//function for main menu

void admin\_menu3()

{

char ch2;

int num;

cout<<"\n-------------------------------------------------------------------------"<<endl;

cout<<"\t\tE N T E R C U S T O M E R D E T A I L S :\n";

cout<<"-------------------------------------------------------------------------"<<endl;

cout<<"1.CREATE NEW CUSTOMER DETAIL"<<endl;

cout<<"2.DISPLAY ALL CUSTOMERS DETAILS"<<endl;

cout<<"3.BACK TO MAIN MENU"<<endl;

cout<<"4.CONTINUE TO BILL\n"<<endl;

cout<<"Please Enter Your Choice (1-4) "<<endl;

cin>>ch2;

switch(ch2)

{

case '1':

write\_customer1();

break;

case '2':

cust\_tabular();

admin\_menu4();

break;

case '3':

mainMenu();

break;

case '4':

orderk=0;

place\_order();

break;

default:

cout<<"Please enter valid option"<<endl;

}

}

void admin\_menu4()

{

char ch2;

int num;

cout<<"\n-------------------------------------------------------------------------"<<endl;

cout<<"\t\tC H O O S E N E X T O P T I O N S:\n";

cout<<"-------------------------------------------------------------------------"<<endl;

cout<<"1.CREATE NEW CUSTOMER DETAIL"<<endl;

cout<<"2.BACK TO MAIN MENU"<<endl;

cout<<"3.CONTINUE TO BILL\n"<<endl;

cout<<"Please Enter Your Choice (1-3) "<<endl;

cin>>ch2;

switch(ch2)

{

case '1':

write\_customer1();

break;

case '2':

mainMenu();

break;

case '3':

orderk=0;

place\_order();

break;

default:

cout<<"Please enter valid option"<<endl;

}

}

void admin\_menu5()

{

char ch2;

int num;

cout<<"\n-------------------------------------------------------------------------"<<endl;

cout<<"\t\tC H O O S E N E X T O P T I O N S:\n";

cout<<"-------------------------------------------------------------------------"<<endl;

cout<<"1.DISPLAY ALL CUSTOMERS DETAILS"<<endl;

cout<<"2.BACK TO MAIN MENU"<<endl;

cout<<"3.CONTINUE TO BILL\n"<<endl;

cout<<"Please Enter Your Choice (1-3) "<<endl;

cin>>ch2;

switch(ch2)

{

case '1':

cust\_tabular();

admin\_menu4();

break;

case '2':

mainMenu();

break;

case '3':

orderk=0;

place\_order();

break;

default:

cout<<"Please enter valid option"<<endl;

}

}

void mainMenu(){

char ch;

do

{

intromain();

cout<<"============================= MAIN MENU ============================"<<endl;

cout<<"1. PLACE ORDER"<<endl;

cout<<"2. ADMINISTRATOR MODE"<<endl;

cout<<"3. EXIT"<<endl;

cout<<"========================================================================"<<endl;

cout<<"Please Select Your Option (1-3) "<<endl;

cin>>ch;

switch(ch)

{

case '1':

admin\_menu3();

break;

case '2':

middleadminmenu();

break;

case '3':

exit(0);

default :

cout<<"Please enter valid option"<<endl;

}

}while(ch!='3');

}

//main intro

void intromain()

{

cout<<endl;

cout<<"-------------------------------------------------------------------------"<<endl;

cout<<"\*\*\*\*\*\*\*\*\* C A N T E E N M A N A G E M E N T S Y S T E M \*\*\*\*\*\*\*\*\*\*\*"<<endl;

cout<<"-------------------------------------------------------------------------"<<endl;

cout<<endl;

}

void middleadminmenu()

{

char ch;

do

{

cout<<endl;

cout<<"========================= ADMINISTRATOR MENU ======================="<<endl;

cout<<"1. CUSTOMERS MENU"<<endl;

cout<<"2. PRODUCTS MENU"<<endl;

cout<<"3. BACK TO MAIN MENU"<<endl;

cout<<"========================================================================"<<endl;

cout<<"Please Select Your Option (1-3) "<<endl;

cin>>ch;

switch(ch)

{

case '1':

admin\_menu1();

break;

case '2':

admin\_menu();

break;

case '3':

mainMenu();

break;

default :

cout<<"Please enter valid option"<<endl;

}

}while(ch!='3');

}

int Login(){

label:

system("cls");

intromain();

cout<<"1.REGISTER"<<endl;

cout<<"2.LOGIN"<<endl;

cout<<"3.EXIT"<<endl;

string p,q,w;

int x;string s;

cin>>x;

if(x==1){

system("cls");

ofstream fout;

cout<<"ENTER YOUR USERNAME"<<endl;

cin>>s;

cout<<"ENTER YOUR PASSWORD"<<endl;

cin>>p;

s=s+p;

ifstream fin;

string line;

int offset=0;

fin.open("myfile.txt");

if(fin.is\_open())

{

while(!fin.eof())

{

getline(fin,line);

if(line.find(s,0)!=-1)

{

cout<<"sorry! this username is not available"<<endl;

cout<<"Press any key to go to Home Page"<<endl;

char kk;

cin>>kk;

goto label;

//break;

}

}

}

fin.close();

fout.open("myfile.txt",ios::app);

fout<<s+"\n";

fout.close();

goto label;

}

else if(x==2){

string line;

system("cls");

ifstream fin;

int offset=0;

cout<<"ENTER YOUR USERNAME"<<endl;

cin>>q;

cout<<"ENTER YOUR PASSWORD"<<endl;

cin>>w;

q=q+w;

fin.open("myfile.txt");

if(fin.is\_open())

{

while(!fin.eof())

{

getline(fin,line);

if(line.find(q,0)!=-1)

{

cout<<"you are logged in !!"<<endl;

offset=1;

mainMenu();

break;

}

}

if(offset==0)

{

cout<<"sorry you are unauthorised!!"<<endl;

cout<<"Press 1 and enter to go to home page"<<endl;

//getch();

char o;

cin>>o;

goto label;

}

}

fin.close();

}

else if(x==3){

return 0;

}else{

goto label;

}

}

// THE MAIN FUNCTION OF PROGRAM

int main()

{

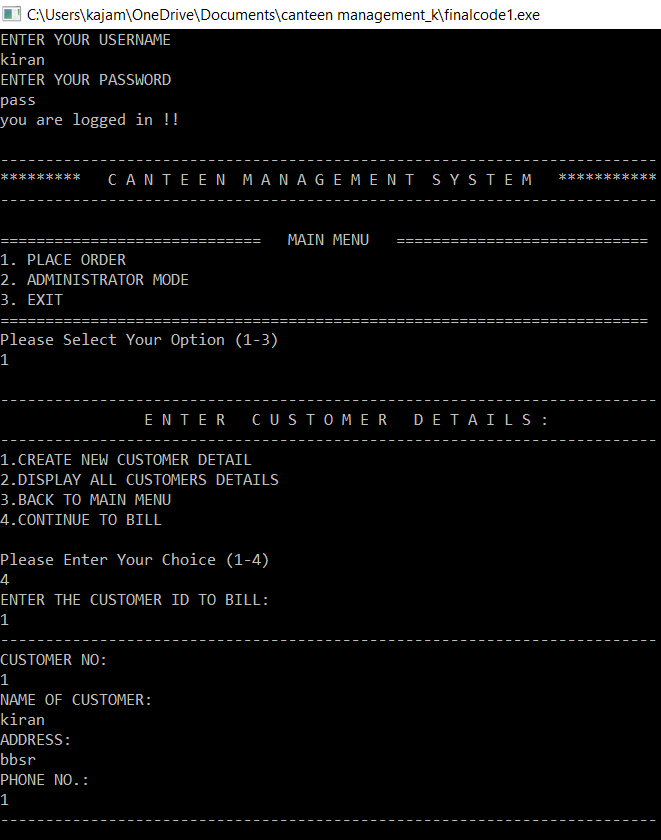
//char ch;

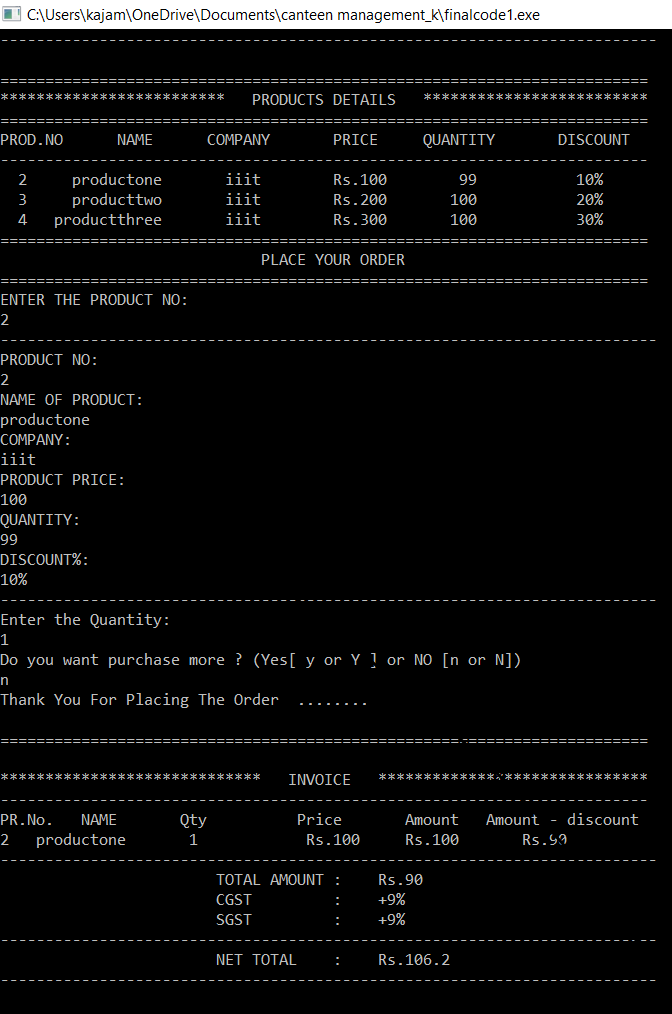
intro();

Login();

return 0;

}





**IMPROTANT FEATURES**

* Login system and user authentication
* Saving and retrieval of user and product data
* Modifying the data stored (edit and removal of user and product data)

**ADVANTAGES:**

• Customer does not have to wait in long queues.

• Customer does not need to worry about buying products.

• Customer does not need to worry about buying products.

• It is easy to handle customer’s record and products records for future

• This software saves the time.

**DISADVANTAGES:**

• This system suitable for only small canteens.

• Online facility is not available.