# FINAL PROJECT:

SOURCE FILE:

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**//Files are “products.txt”, “customer.txt”, “shopkeeper.txt”**

#include<iostream>

#include<fstream>

#include<conio.h>

#include<cstring>

#include<string>

#include<Windows.h>

#include "Project.h"

using namespace std;

int main() {

shopping a;

a.menu();

}

HEADER FILE (Project.h):

#pragma once

#include<iostream>

#include<fstream>

#include<conio.h>

#include<cstring>

#include<string>

#include<Windows.h>

using namespace std;

class variables {

protected:

int pcode;

float price;

float dis;

string pname;

fstream data, data1;

int pkey;

int token = 0;

int c;

float p, d;

string n, name, username, email, password, date, gender, blood, phone\_no, address, cid, id, usn, psd;

bool b = false;

public:

void add\_shopkeeper();

void shopkeeper\_menu();

};

class shopping : public variables {

private:

char SAName[20];

char SAPass[20];

int ch, i = 0, gen\_captcha = 0, Input\_captcha = 0;

public:

bool Admin\_login();

void menu();

void administrator();

void add();

void edit();

void rem();

void list();

void shopkeeper\_menu1();

void update\_data();

};

FUNCTION FILE (Project.cpp):

#include "Project.h"

#include<iostream>

#include<fstream>

#include<conio.h>

#include<cstring>

#include<string>

#include<Windows.h>

using namespace std;

int admin\_choice;

string reguser, regpass, ru, rp;

int choicelog;

void variables::add\_shopkeeper()

{

system("cls");

cout << "ADD DETAILS" << endl;

fstream file;

cout << "Enter Identification Number: ";

cin >> cid;

cout << "Enter the username :";

cin >> reguser;

cout << "Enter the password :";

cin >> regpass;

cout << "Enter Name: ";

cin >> name;

cout << "Enter email : ";

cin >> email;

cout << "Enter password : ";

cin >> password;

cout << "Enter date : ";

cin >> date;

cout << "Enter gender : ";

cin >> gender;

cout << "Enter blood : ";

cin >> blood;

B:

cout << "\n\n\t\tEnter Your Mobile Number: ";

cin >> phone\_no;

if (phone\_no.length() != 11)

{

cout << "\nInvalid Phone Number";

goto B;

}

else

{

// The First letter should not start with 0 or 1

if (phone\_no[0] != '0' || phone\_no[0] == '1')

{

cout << "\nInvalid Phone Number\n";

goto B;

}

else

{

cout << "\nValid Phone Number\n";

}

}

cout << "Enter address : ";

cin >> address;

string fname;

fname = reguser + "\n" + regpass + "\n" + name + "\n" + cid + "\n" + phone\_no + "\n" + gender + "\n" + blood + "\n" + email + "\n" + password + "\n" + username + "\n" + date + "\n" + address;

int chhhose;

x:

if (choicelog == 3 || admin\_choice == 5)

{

file.open("shopkeeper.txt", ios::app);

file << fname;

cout << "\n\nYOUR DATA HAS BEEN SUCCESSFULLY INSERTED" << endl;

cout << "\n\nPress Any Key To Continue..";

file.close();

shopping b;

b.shopkeeper\_menu1();

}

else if (choicelog == 2)

{

file.open("customer.txt", ios::app);

file << fname;

cout << "\n\nYOUR DATA HAS BEEN SUCCESSFULLY INSERTED" << endl;

cout << "\n\nPress Any Key To Continue..";

file.close();

shopping b;

b.shopkeeper\_menu1();

}

else

cout << choicelog;

}

void registr() {

system("cls");

variables vs;

vs.add\_shopkeeper();

system("cls");

cout << "\nRegistration Sucessful\n";

}

void variables::shopkeeper\_menu() {

int choice = 9;

shopping as;

system("cls");

cout << "\n\n\n\t\t\t ShopKeeper Menu\n\n";

cout << "\n\t\t 1- Add Product ";

cout << "\n\t\t 2- Modify Product";

cout << "\n\t\t 3- Delete Product";

cout << "\n\t\t 4- View Products ";

cout << "\n\t\t 5- Exit ";

cout << "\n\n\t Please enter your choice : ";

int admin\_choice;

cin >> admin\_choice;

while (admin\_choice != 7)

{

switch (admin\_choice)

{

case 1:

as.add();

system("pause");

system("cls");

shopkeeper\_menu();

break;

case 2:

as.edit();

system("pause");

system("cls");

shopkeeper\_menu();

break;

case 3:

as.rem();

system("pause");

system("cls");

shopkeeper\_menu();

break;

case 4:

system("cls");

as.list();

system("pause");

system("cls");

shopkeeper\_menu();

break;

case 5:

as.shopkeeper\_menu1();

system("pause");

system("cls");

break;

default:

cout << "Enter Valid Choice : ";

system("pause");

shopkeeper\_menu();

}

}

}

class buyerr : public variables {

private:

shopping sho;

public:

void buyer();

void receipt();

};

void login()

{

if (choicelog == 3)

{

int count = 0;;

string user, pass, u, p;

system("cls");

cout << "\n\n\t\t\tplease enter the following details" << endl;

cout << "\t\t\tUSERNAME :";

cin >> user;

cout << "\t\t\tPASSWORD :";

cin >> pass;

ifstream input("shopkeeper.txt");

while (input >> u >> p)

{

if (u == user && p == pass)

{

count = 1;

system("cls");

}

}

input.close();

if (count == 1)

{

cout << endl << "\n\n\t\t\t\t\t | Logging In | " << endl;

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

for (int s = 1; s < 5; s++) {

Sleep(500);

cout << ".......";

}

variables a;

cout << "\nLogged In ";

system("pause");

a.shopkeeper\_menu();

}

else

{

shopping sh;

cout << "\nLOGIN ERROR\nPlease check your username and password\n";

sh.shopkeeper\_menu1();

}

}

else if (choicelog == 2) {

int count = 0;;

string user, pass, u, p;

system("cls");

cout << "\n\n\t\t\tplease enter the following details" << endl;

cout << "\t\t\tUSERNAME :";

cin >> user;

cout << "\t\t\tPASSWORD :";

cin >> pass;

ifstream input("customer.txt");

while (input >> u >> p)

{

if (u == user && p == pass)

{

count = 1;

system("cls");

}

}

input.close();

if (count == 1) {

cout << endl << "\n\n\t\t\t\t\t | Logging In | " << endl;

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

for (int s = 1; s < 5; s++) {

Sleep(500);

cout << ".......";

}

buyerr a;

cout << "\nLogged In ";

system("pause");

a.buyer();

}

else

{

shopping sh;

cout << "\nLOGIN ERROR\nPlease check your username and password\n";

system("pause");

sh.shopkeeper\_menu1();

}

}

}

void shopping::update\_data() {

}

void shopping::shopkeeper\_menu1() {

system("cls");

buyerr bb;

cout << "\n\t\t 1- Register ";

cout << "\n\t\t 2- Login ";

cout << "\n\t\t 3- Exit ";

cout << "\n\n\t Please enter your choice : ";

int admin\_choice;

cin >> admin\_choice;

if (choicelog == 3) {

while (admin\_choice != 7)

{

switch (admin\_choice)

{

case 1:

registr();

system("pause");

system("cls");

shopkeeper\_menu1();

break;

case 2:

login();

system("pause");

system("cls");

break;

case 3:

menu();

}

}

}

if (choicelog == 2) {

while (admin\_choice != 7)

{

switch (admin\_choice)

{

case 1:

registr();

system("pause");

system("cls");

shopkeeper\_menu1();

break;

case 2:

login();

system("pause");

system("cls");

break;

case 3:

menu();

}

}

}

}

bool shopping::Admin\_login() {

system("cls");

cout << "\t\tUser name : ";

cin >> SAName;

cout << "\t\tPassword : ";

while ((ch = \_getch()) != 13) {

cout << "\*";

SAPass[i] = ch;

i++;

}

SAPass[i] = '\0';

srand(time(0));

gen\_captcha = rand();

cout << endl << "Enter this number below : " << gen\_captcha << endl;

cout << "Enter the above number : ";

cin >> Input\_captcha;

if ((strcmp(SAName, "admin") == 0) && (strcmp(SAPass, "admin") == 0) && (Input\_captcha == gen\_captcha)) {

cout << endl << "\t\t\t\t | Veryfing Admin | " << endl;

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

for (int s = 1; s < 5; s++) {

Sleep(500);

cout << "......";

}

cout << endl << endl << "\t\t\t\t Access Granted... ;)" << endl << endl;

system("pause");

system("cls");

int x = true;

administrator();

return true;

}

else

{

cout << endl << "\t\t\t\t | Veryfing Admin | " << endl;

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

for (int s = 1; s < 5; s++) {

Sleep(400);

cout << "......";

}

cout << endl << endl << "\t\t\t\t Access Denied... :(" << endl << endl;

system("pause");

menu();

system("pause");

return false;

}

}

void shopping::administrator() {

system("cls");

cout << "\n\n\n\t\t\t Administrator Menu";

cout << "\n\t\t 1- Add Product ";

cout << "\n\t\t 2- Modify Product ";

cout << "\n\t\t 3- Delete Product ";

cout << "\n\t\t 4- View Products ";

cout << "\n\t\t 5- Add ShopKeeper ";

cout << "\n\t\t 6- Exit ";

cout << "\n\n\t Please enter your choice : ";

cin >> admin\_choice;

while (admin\_choice != 7)

{

switch (admin\_choice)

{

case 1:

add();

system("pause");

system("cls");

administrator();

break;

case 2:

edit();

system("pause");

system("cls");

administrator();

break;

case 3:

rem();

system("pause");

system("cls");

administrator();

break;

case 4:

system("cls");

list();

system("pause");

system("cls");

administrator();

break;

case 5:

system("cls");

add\_shopkeeper();

system("pause");

system("cls");

administrator();

case 6:

menu();

system("pause");

system("cls");

break;

default:

cout << "Enter Valid Choice : ";

system("pause");

administrator();

}

}

}

void shopping::menu() {

buyerr buy;

system("cls");

cout << "\t\t Supermarket Main Menu " << endl;

cout << "\t\t 1- administrator " << endl;

cout << "\t\t 2- Customer " << endl;

cout << "\t\t 3- Shop Keeper " << endl;

cout << "\t\t 4- Exit " << endl;

cout << "\n\t Please select : ";

cin >> choicelog;

switch (choicelog) {

case 1:

Admin\_login();

break;

case 2:

shopkeeper\_menu1();

case 3:

shopkeeper\_menu1();

case 4:

exit(0);

default:

cout << "Please enter from the given options : ";

system("pause");

menu();

}

}

void shopping::rem() {

system("cls");

list();

cout << "\n\n\t Delete Product";

cout << "\n\n\t Product code : ";

cin >> pkey;

data.open("products.txt", ios::in);

if (!data) {

cout << "File does not exist";

}

else {

data1.open("database1.txt", ios::app | ios::out);

data >> pcode >> pname >> price >> dis;

while (!data.eof()) {

if (pcode == pkey) {

cout << "Product deleted successfully";

token++;

}

else {

data1 << " " << pcode << " " << pname << " " << price << " " << dis << "\n";

}

data >> pcode >> pname >> price >> dis;

}

data.close();

data1.close();

remove("products.txt");

rename("database1.txt", "products.txt");

if (token == 0) {

cout << "\n\nRecord not found";

}

}

}

void shopping::add() {

system("cls");

m:

token = 0;

cout << "\n\n\t\t\t Add New Product";

cout << "\n\n\t Code Of The Product : ";

cin >> pcode;

cout << "\n\n\t Name Of The Product : ";

cin >> pname;

cout << "\n\n\t Price Of The Product : ";

cin >> price;

cout << "\n\n\t Discount Of The Product : ";

cin >> dis;

data.open("products.txt", ios::in);

if (!data) {

data.open("products.txt", ios::app | ios::out);

data << " " << pcode << " " << pname << " " << price << " " << dis << "\n";

data.close();

}

else {

data >> c >> n >> p >> d;

while (!data.eof()) {

if (c == pcode) {

token++;

}

data >> c >> n >> p >> d;

}

data.close();

if (token == 1)

goto m;

else {

data.open("products.txt", ios::app | ios::out);

data << " " << pcode << " " << pname << " " << price << " " << dis << "\n";

data.close();

}

}

cout << "\n\n\t\t Record Inserted";

}

void shopping::edit() {

system("cls");

list();

cout << "\n\t\t\t Modify The Record";

cout << "\n\t\t\t Product Code : ";

cin >> pkey;

data.open("products.txt", ios::in);

if (!data) {

cout << "\n\nFile does not exist";

}

else {

data1.open("database1.txt", ios::app | ios::out);

data >> pcode >> pname >> price >> dis;

while (!data.eof()) {

if (pkey == pcode) {

cout << "\n\n\t Code Of The Product : ";

cin >> c;

cout << "\n\n\t Name Of The Product : ";

cin >> n;

cout << "\n\n\t Price Of The Product : ";

cin >> p;

cout << "\n\n\t Discount Of The Product : ";

cin >> d;

data1 << " " << c << " " << n << " " << p << " " << d << "\n";

cout << "\n\n\t\t Record Has Been Edited";

token++;

}

else {

data1 << " " << pcode << " " << pname << " " << price << " " << " " << dis << "\n";

}

data >> pcode >> pname >> price >> dis;

}

data.close();

data1.close();

remove("products.txt");

rename("database1.txt", "products.txt");

if (token == 0) {

cout << "\n\n Record not found sorry";

}

}

administrator();

}

void buyerr::buyer() {

system("cls");

int choice;

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

cout << "\t\t 1- Buy Product " << endl;

cout << "\t\t 2- Exit " << endl;

cout << "\n\t\t Please select : ";

cin >> choice;

switch (choice)

{

case 1:

receipt();

case 2:

sho.menu();

default:

cout << "Please enter from the given options : ";

system("pause");

buyer();

}

}

void shopping::list() {

fstream data;

data.open("products.txt", ios::in);

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

cout << "ProNo\t\tName\t\tPrice\n";

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

data >> pcode >> pname >> price >> dis;

while (!data.eof()) {

cout << pcode << "\t\t" << pname << "\t\t" << price << "\n";

data >> pcode >> pname >> price >> dis;

}

data.close();

}

void buyerr::receipt() {

system("cls");

fstream data;

int arrc[100];

int arrq[100];

char choice;

int c = 0;

float amount = 0;

float dis = 0;

float total = 0;

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

data.open("products.txt", ios::in);

if (!data) {

cout << "\n\n No Data has been entered";

}

else {

data.close();

sho.list();

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

cout << "\n| \n";

cout << "\n| Please Place order \n";

cout << "\n| \n";

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

do {

cout << "\n\nEnter Product Code : ";

cin >> arrc[c];

cout << "\n\nEnter Product quantity : ";

cin >> arrq[c];

for (int i = 0; i < c; i++) {

if (arrc[c] == arrc[i]) {

cout << "\n\n Duplicate Product code!!";

//goto m;

}

}

c++;

cout << "\n\nDo you want to buy another product? y/n";

cin >> choice;

} while (choice == 'y');

system("cls");

cout << "\n\n\t\t\t\_\_\_RECEIPT\_\n";

cout << "\nProduct No\t Product Name\t Product Quantity\t Price\t Amount\t With Discount\n";

for (int i = 0; i < c; i++) {

data.open("products.txt", ios::in);

data >> pcode >> pname >> price >> dis;

while (!data.eof()) {

if (pcode == arrc[i]) {

amount = price \* arrq[i];

dis = amount - (amount \* dis / 100);

total = total + dis;

cout << "\n" << pcode << "\t\t" << pname << "\t\t\t" << arrq[i] << "\t\t" << price << "\t" << amount << "\t\t" << dis;

}

data >> pcode >> pname >> price >> dis;

}

data.close();

}

data.close();

}

cout << endl << "\n\t\t\t\t | Taking Out receipt | " << endl;

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

for (int s = 1; s < 5; s++) {

Sleep(500);

cout << "......";

}

cout << endl << endl << "\t\t\t\t Thank You For Shopping With Us... :)" << endl << endl;

cout << "\n\nXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX";

cout << "\n Total amount : " << total << endl;

cout << "\n\nXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX";

system("pause");

}