

**Bahria University, E8 Islamabad**

**OOP Semester Assignment**

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**User.h**

#include <string>

#include "admin.h"

#include "member.h"

#include <iostream>

#include<conio.h>

#include<fstream>

using namespace std;

#pragma once

class user:public admin,public member

{

protected:

int id;

string username;

string email;

string status;

public:

user();

~user();

void set(int,string,string);

void Verifyuser();

void Adduser();

void Display();

void Signup();

void Login();

void Delete();

void viewuser();

};

**User.cpp**

#include "user.h"

user::user()

{

id = 0;

username = "";

email = "";

status = "User";

}

user::~user()

{

}

void user::set(int i, string u, string e)

{

id = i;

username = u;

email = e;

}

void user::Verifyuser()

{

cout << "\n \tThe user is a Normal User ! \n";

}

void user::Display()

{

cout << "\n\t Status : " << status;

cout << "\n\t Userid : " << id;

cout << "\n\t Username : " << username;

cout << "\n\t Email : " << email;

}

void user::Signup() // signup as a normal user

{

cout << "\n\t --------------SIGN UP----------------\n";

cout << "\n\t Enter userid of your choice : ";

cin >> id;

cout << "\n\t Enter a username of your choice : ";

cin >> username;

cout << "\n\t Enter your email : ";

cin >> email;

ofstream of("signup.dat", ios::app | ios::binary);

if (!of)

{

cout << "\n\t Unable to open the file! \n";

}

else

{

of.write((char \*)this, sizeof(\*this));

system("cls");

cout << "\n\t Account Created Successfully! \n";

}

of.close();

}

void user::Login()

{

string u, e;

bool flag = true;

cout << "\n\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* USER-LOGIN \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \n";

cout << "\n" << "\t Enter your username : ";

cin >> u;

cout << "\n\t Enter your email : ";

cin >> e;

ifstream r("signup.dat", ios::binary);

if (!r)

{

cout << "\n\t Unable to open the file! ";

}

else

{

while (!r.eof())

{

r.read((char \*)this, sizeof(\*this));

if (u == username && e == email)

{

system("cls");

cout << "\n\t Login Successful ! \n ";

cout << "\n\t----------------USER MENU--------------------\n";

}

else

{

flag = false;

}

}

if (flag == false)

{

system("cls");

cout << "\n\t Invalid username or email! Try again \n";

Login();

}

}

r.close();

}

void user::viewuser()

{

ifstream r("signup.dat", ios::binary);

if (!r)

{

cout << "\n\t Unable to open the file! \n";

}

else

{

cout << "\n\t USER DETAILS \n";

while (!r.eof())

{

if (!r.read((char \*)this, sizeof(\*this)))break;

Display();

cout << "\n";

}

}

r.close();

}

void user::Delete()

{

string u;

cout << "\n\t Enter a username to delete : ";

cin >> u;

ifstream fin("signup.dat", ios::binary);

if (!fin)

{

cout << "\n\t Unable to open the file! ";

}

else

{

ofstream fout("temp.dat", ios::binary);

if (!fout)

{

cout << "\n\t Unable to open! ";

}

while (!fin.eof())

{

fin.read((char \*)this, sizeof(\*this));

if (username!=u)

{

fout.write((char \*)this, sizeof(this));

}

fin.read((char \*)this, sizeof(\*this));

}

fin.close();

fout.close();

remove("signup.dat");

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

}

}

void user::Adduser() // signup As an admin or member

{

int ch;

cout << "\n\t Please select any option \n\n";

cout << "\t 1) Member User \n ";

cout << "\t 2) Admin User \n\n \t ";

cin >> ch;

if (ch == 1)

{

member::Signup();

member::Login();

}

else if (ch == 2)

{

admin::Signup();

admin::Login();

}

else {

cout << "\n\t Invalid choice Try again! \n";

Adduser();

}

}

**Admin.h**

#include "adminlist.h"

#include "member.h"

#pragma once

class admin:protected adminlist

{

private:

public:

admin();

~admin();

void getData();

void Verifyuser();

void Deleteadmin();

void AddMember();

void deleteMember();

void Display();

void Signup();

void Login();

void viewadmins();

};

**Admin.cpp**

#include "admin.h"

admin::admin()

{

}

void admin::Verifyuser()

{

adminlist::Verifyuser();

}

admin::~admin()

{

}

void admin::Deleteadmin()

{

int id;

cout << "\n\t Enter admin-id id to delete : ";

cin >> id;

ifstream fin("Asignup.dat", ios::binary);

if (!fin)

{

cout << "\n\t Unable to open the file! ";

}

else

{

ofstream fout("temp.dat", ios::binary);

if (!fout)

{

cout << "\n\tUnable to open the file! ";

}

while (!fin.eof())

{

fin.read((char \*)this, sizeof(\*this));

if (admin\_id != id)

{

fout.write((char \*)this, sizeof(this));

}

fin.read((char \*)this, sizeof(\*this));

}

fin.close();

fout.close();

remove("Asignup.dat");

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

}

}

void admin::AddMember()

{

member m;

m.Signup();

}

void admin::deleteMember()

{

member m;

m.deleteMember();

}

void admin::Display()

{

cout << "\n\t Status : " << status;

cout << "\n\t Admin name : " << name;

cout << "\n\t Admin age : " << age;

cout << "\n\t Admin id : " << admin\_id;

cout << "\n\t Password : " << password;

cout << "\n\t Email : " << email;

cout << "\n\t Country : " << country;

cout << "\n\t Phone : " << phone;

}

void admin::Signup()

{

cout << "\n\t --------------SIGN UP----------------\n";

cout << "\n" << "\tEnter an adminid of your choice : ";

cin >> admin\_id;

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

cin >> password;

cout << "\n\t Enter admin's name : ";

cin >> name;

cout << "\n\t Enter admin's age : ";

cin >> age;

cout << "\n\t Enter email of admin : ";

cin >> email;

cout << "\n\t Enter country of admin : ";

cin >> country;

cout << "\n\t Enter phone of admin : ";

cin >> phone;

ofstream of("Asignup.dat", ios::app | ios::binary);

if (!of)

cout << "\n Unable to open the file! ";

else

{

of.write((char \*)this, sizeof(\*this));

cout << "\n\t Account Created Successfully! \n";

}

of.close();

}

void admin::Login()

{

bool flag = true;

int ad;

string p;

cout << "\n\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ADMIN-LOGIN \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \n";

cout << "\n" << "\tEnter your adminid : ";

cin >> ad;

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

cin >> p;

ifstream r("Asignup.dat", ios::binary);

if (!r)

cout << "\n\t Unable to open the file ! ";

else

{

while (!r.eof())

{

r.read((char \*)this, sizeof(\*this));

if (p == password && ad == admin\_id)

{

system("cls");

cout << "\n\t Login Successful ! \n ";

cout << "\n\t----------------ADMIN MENU--------------------\n";

}

else

flag = false;

}

if (flag == false)

{

system("cls");

cout << "\n\t Invalid id or password! Try again \n";

Login();

}

}

r.close();

}

void admin::viewadmins()

{

ifstream r("Asignup.dat",ios::binary);

cout << "\n\t ADMIN DETAILS \n";

while (!r.eof())

{

if (!r.read((char \*)this, sizeof(\*this)))break;

Display();

cout << "\n";

}

r.close();

}

**AdminList.h**

#pragma once

#include <iostream>

#include <string>

#include <fstream>

using namespace std;

class adminlist

{

protected:

string name;

string status;

string country;

int age, phone;

string email;

int admin\_id;

string password;

adminlist();

~adminlist();

void Verifyuser();

};

**Adminlist.cpp**

#include "adminlist.h"

adminlist::adminlist()

{

admin\_id = 1234;

password = "hello";

status = "Admin";

}

adminlist::~adminlist()

{

}

void adminlist::Verifyuser()

{

cout << "\n\t The User is an Admin! \n";

}

**Baraat.h**

#pragma once

#include "walima.h"

class baraat :

public marraige

{

public:

baraat();

baraat(int, string);

~baraat();

void Addcard();

int getid();

void search();

void deletecard();

void Displaycards();

void write();

void viewcard();

void show();

};

**Baraat.cpp**

#include "baraat.h"

baraat::baraat()

{

id = 0;

name = "unknown";

}

baraat::baraat(int i,string n)

{

id = i;

name = n;

}

baraat::~baraat()

{

}

void baraat::Addcard()

{

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

cout << "\n\t Enter card name : ";

cin >> name;

cout << "\n\t Enter card id : ";

cin >> id;

fflush(stdin);

cout << "\n\t Enter a message for the receiver : ";

getline(cin, message);

system("cls");

cout << "\n\t CARD CREATED SUCCESSFULLY\n";

write();

}

void baraat::deletecard()

{

cout << "\n This card has been deleted! ";

}

void baraat::Displaycards()

{

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

cout << "\t ID : " << id;

cout << "\n\t Name : " << name;

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

cout << "\n\t Message for receiver : " << message;

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

}

void baraat::write()

{

ofstream of("BBcard.dat", ios::app | ios::binary);

if (!of)

cout << "\n\t Unable to open write! ";

else

{

of.write((char \*)this, sizeof(\*this));

}

of.close();

}

void baraat::viewcard()

{

ifstream in("BBcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open write! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof(\*this)))break;

Displaycards();

cout << endl;

}

}

in.close();

}

int baraat::getid()

{

return id;

}

void baraat::search()

{

int id;

bool flag = false;

cout << "\n\t Enter card-id : ";

cin >> id;

ifstream in("BBcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open the file! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof(\*this)))break;

if (id == getid())

{

flag = true;

cout << "\n\t FOUND SUCCESSFULLY ! \n\n";

Displaycards();

\_getch();

exit(0);

}

}

if (flag == false)

{

cout << "\n\t Not found in Baraat-Cards! \n";

}

}

in.close();

}

void baraat::show()

{

ifstream in("BBcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open the file! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof \*this))break;

Displaycards();

}

}

in.close();

}

**Birthdaycard.h**

#pragma once

#include <string>

#include <iostream>

#include <fstream>

#include <conio.h>

#include <stdio.h>

using namespace std;

class birthcard

{

private:

int id;

string name;

char message[50];

public:

birthcard();

birthcard(int, string);

void Addcard();

int getid();

void search();

void deletecard();

~birthcard();

void write();

void viewcard();

void Displaycards();

void show();

};

**Birthdaycard.cpp**

#include "birthcard.h"

birthcard::birthcard()

{

id = 0;

name = "unknown";

}

birthcard::birthcard(int i,string n)

{

id = i;

name = n;

}

birthcard::~birthcard()

{

}

void birthcard::Addcard()

{

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

cout << "\n\t Enter card name : ";

cin >> name;

cout << "\n\t Enter card id : ";

cin >> id;

fflush(stdin);

cout << "\n\t Enter a message for the receiver : ";

cin.get(message,50);

system("cls");

cout << "\n\t CARD CREATED SUCCESSFULLY\n";

write();

}

void birthcard::deletecard()

{

cout << "\n\t This card has been deleted! ";

}

void birthcard::Displaycards()

{

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

cout << "\n\t ID : " << id;

cout << "\n\t Name : " << name;

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

cout << "\n\t Message for receiver : " << message;

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

}

void birthcard::write()

{

ofstream of("Bcard.dat",ios::app|ios::binary);

if (!of)

cout << "\n\t Unable to open write! ";

else

{

of.write((char \*)this, sizeof(\*this));

}

of.close();

}

void birthcard::viewcard()

{

ifstream in("Bcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open write! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof(\*this)))break;

Displaycards();

cout << endl;

}

}

in.close();

}

int birthcard::getid()

{

return id;

}

void birthcard::search()

{

int id;

bool flag = false;

cout << "\n\t Enter card-id : ";

cin >> id;

ifstream in("Bcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open the file! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof(\*this)))break;

if (id == getid())

{

flag = true;

cout << "\n\t FOUND SUCCESSFULLY ! \n\n";

Displaycards();

\_getch();

exit(0);

}

}

if (flag==false)

{

cout << "\n\t Not found in Birth-Cards! \n";

}

}

in.close();

}

void birthcard::show()

{

ifstream in("Bcard.dat",ios::binary);

if (!in)

cout << "\n\t Unable to open the file! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof \*this))break;

Displaycards();

}

}

in.close();

}

**Cards.h**

#pragma once

#include "friendship.h"

#include "birthcard.h"

#include "baraat.h"

using namespace std;

class cards:public friendship,birthcard,baraat

{

protected:

int id;

string name, message;

public:

cards();

~cards();

void Addcard() ;

void deletecard() ;

void viewcard();

void show();

};

**Cards.cpp**

#include "cards.h"

cards::cards()

{

id = 0;

name = "unknown";

message = "Hi";

}

cards::~cards()

{

}

void cards::Addcard()

{

walima w;

mehindi m;

int ch;

cout << "\n\t Please select any option ! \n";

cout << "\n\t1) Birth cards ";

cout << "\n\t2) Marriage cards ";

cout << "\n\t3) Friendship cards ";

cout << "\n\t4) Baraat cards ";

cout << "\n\t5) Walima cards ";

cout << "\n\t6) Mehindi cards \n \t \n\t choice : ";

cin >> ch;

switch (ch)

{

case 1:

birthcard::Addcard();

break;

case 2:

marraige::Addcard();

break;

case 3:

friendship::Addcard();

break;

case 4:

baraat::Addcard();

break;

case 5:

w.Addcard();

break;

case 6:

m.Addcard();

break;

default: cout << "\n\t Invalid choice ! ";

break;

}

}

void cards::viewcard()

{

mehindi m;

walima t;

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

birthcard::search();

cout << "\n\t Checking in Marraige-Cards! \n";

marraige::search();

cout << "\n\t Checking in Friendship-Cards! \n";

friendship::search();

cout << "\n\t Checking in Baraat-Cards! \n";

baraat::search();

cout << "\n\t Checking in Walima-Cards! \n";

t.search();

cout << "\n\t Checking in Mehindi-Cards! \n";

m.search();

}

void cards::show()

{

int ch;

char c = 'y';

walima w;

mehindi m;

do

{

cout << "\n\t Please select any option ! \n";

cout << "\n\t1) Birth cards ";

cout << "\n\t2) Marriage cards ";

cout << "\n\t3) Friendship cards ";

cout << "\n\t4) Baraat cards ";

cout << "\n\t5) Walima cards ";

cout << "\n\t6) Mehindi cards \n\n \t choice : ";

cin >> ch;

switch (ch)

{

case 1:

birthcard::show();

break;

case 2:

marraige::show();

break;

case 3:

friendship::show();

break;

case 4:

baraat::show();

break;

case 5:

w.show();

break;

case 6:

m.show();

break;

default: cout << "\n\t Invalid choice ! ";

break;

}

cout << "\n\t View another? (y/n) : ";

cin >> c;

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

{

system("cls");

}

else if (c == 'n' || c == 'N')

{

fflush(stdin);

system("cls");

break;

}

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

}

void cards::deletecard()

{

cout << "\n Cards successfully deleted! ";

}

**Friendship.h**

#pragma once

#include <string>

#include <iostream>

#include <conio.h>

#include <fstream>

using namespace std;

class friendship

{

private:

int id;

string name, message;

public:

friendship();

friendship(int, string);

~friendship();

void Addcard();

void deletecard();

void Displaycards();

void write();

int getid();

void viewcard();

void search();

void show();

};

**Friendship.cpp**

#include "friendship.h"

friendship::friendship()

{

id = 0;

name = "unknown";

}

friendship::friendship(int i,string n)

{

id = i;

name = n;

}

friendship::~friendship()

{

}

void friendship::Addcard()

{

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

cout << "\n\t Enter card name : ";

cin >> name;

cout << "\n\t Enter card id : ";

cin >> id;

fflush(stdin);

cout << "\n\t Enter a message for the receiver : ";

getline(cin, message);

system("cls");

cout << "\n\t CARD CREATED SUCCESSFULLY\n";

write();

}

void friendship::deletecard()

{

cout << "\n This card has been deleted! ";

}

void friendship::Displaycards()

{

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

cout << "\n\t ID : " << id;

cout << "\n\t Name : " << name;

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

cout << "\n\t Message for receiver : " << message;

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

}

void friendship::write()

{

ofstream of("Fcard.dat", ios::app | ios::binary);

if (!of)

cout << "\n\t Unable to open write! ";

else

{

of.write((char \*)this, sizeof(\*this));

}

of.close();

}

void friendship::viewcard()

{

ifstream in("Fcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open write! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof(\*this)))break;

Displaycards();

cout << endl;

}

}

in.close();

}

int friendship::getid()

{

return id;

}

void friendship::search()

{

int id;

bool flag = false;

cout << "\n\t Enter card-id : ";

cin >> id;

ifstream in("Fcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open the file! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof(\*this)))break;

if (id == getid())

{

flag = true;

cout << "\n\t FOUND SUCCESSFULLY ! \n\n";

Displaycards();

\_getch();

exit(0);

}

}

if (flag == false)

{

cout << "\n\t Not found in Friendship-Cards! \n";

}

}

in.close();

}

void friendship::show()

{

ifstream in("Fcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open the file! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof \*this))break;

Displaycards();

}

}

in.close();

}

**Marriage.h**

#pragma once

#include <iostream>

#include <string>

#include <conio.h>

#include <fstream>

using namespace std;

class marraige

{

protected:

int id;

string name,message;

public:

marraige();

marraige(int, string);

~marraige();

void Addcard();

void deletecard();

void Displaycards();

void viewcard();

void write();

int getid();

void search();

void show();

};

**Marriage.cpp**

#include "marraige.h"

marraige::marraige()

{

id = 0;

name = "unknown";

}

marraige::marraige(int i,string n)

{

id = i;

name = n;

}

marraige::~marraige()

{

}

void marraige::Addcard()

{

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

cout << "\n\t Enter card name : ";

cin >> name;

cout << "\n\t Enter card id : ";

cin >> id;

fflush(stdin);

cout << "\n\t Enter a message for the receiver : ";

getline(cin, message);

system("cls");

cout << "\n\t CARD CREATED SUCCESSFULLY\n";

write();

}

void marraige::deletecard()

{

cout << "\n This card has been deleted! ";

}

void marraige::Displaycards()

{

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

cout << "\n\t ID : " << id;

cout << "\n\t Name : " << name;

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

cout << "\n\t Message for receiver : " << message;

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

}

void marraige::write()

{

ofstream of("Mcard.dat", ios::app | ios::binary);

if (!of)

cout << "\n\t Unable to open write! ";

else

{

of.write((char \*)this, sizeof(\*this));

}

of.close();

}

void marraige::viewcard()

{

ifstream in("Mcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open write! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof(\*this)))break;

Displaycards();

cout << endl;

}

}

in.close();

}

int marraige::getid()

{

return id;

}

void marraige::search()

{

int id;

bool flag = false;

cout << "\n\t Enter card-id : ";

cin >> id;

ifstream in("Mcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open the file! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof(\*this)))break;

if (id == getid())

{

flag = true;

cout << "\n\t FOUND SUCCESSFULLY ! \n\n";

Displaycards();

\_getch();

exit(0);

}

}

if (flag == false)

{

cout << "\n\t Not found in Marraige-Cards! \n";

}

}

in.close();

}

void marraige::show()

{

ifstream in("Mcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open the file! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof \*this))break;

Displaycards();

}

}

in.close();

}

**Mehindi.h**

#pragma once

#include "marraige.h"

class mehindi :

public marraige

{

private:

string Name;

public:

mehindi();

mehindi(int, string);

~mehindi();

void Addcard();

int getid();

void search();

void deletecard();

void Displaycards();

void write();

void viewcard();

void show();

};

**Mehindi.cpp**

#include "mehindi.h"

mehindi::mehindi()

{

id = 0;

name = "unknown";

}

mehindi::mehindi(int i,string n)

{

id = i;

name = n;

}

mehindi::~mehindi()

{

}

void mehindi::Addcard()

{

cout << "\n\t\*\*\*\*\*\*\*\*\*\*\*MEHINDI-CARD\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

cout << "\n\t Enter card name : ";

cin >> name;

cout << "\n\t Enter card id : ";

cin >> id;

fflush(stdin);

cout << "\n\t Enter a message for the receiver : ";

getline(cin, message);

system("cls");

cout << "\n\t CARD CREATED SUCCESSFULLY\n";

write();

}

void mehindi::deletecard()

{

cout << "\n This card has been deleted! ";

}

void mehindi::Displaycards()

{

cout << "\n\t\*\*\*\*\*\*\*\*\*\*\*MEHINDI-CARD\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout << "\n\t ID : " << id;

cout << "\n\t Name : "<< name;

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

cout << "\n\t Message for receiver : " << message;

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

}

void mehindi::write()

{

ofstream of("MMcard.dat", ios::app | ios::binary);

if (!of)

cout << "\n\t Unable to open write! ";

else

{

of.write((char \*)this, sizeof(\*this));

}

of.close();

}

void mehindi::viewcard()

{

ifstream in("MMcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open write! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof(\*this)))break;

Displaycards();

cout << endl;

}

}

in.close();

}

int mehindi::getid()

{

return id;

}

void mehindi::search()

{

int id;

bool flag = false;

cout << "\n\t Enter card-id : ";

cin >> id;

ifstream in("MMcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open the file! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof(\*this)))break;

if (id == getid())

{

flag = true;

cout << "\n\t FOUND SUCCESSFULLY ! \n\n";

Displaycards();

\_getch();

exit(0);

}

}

if (flag == false)

{

cout << "\n\t Not found in Any of the Cards! \n";

}

}

in.close();

}

void mehindi::show()

{

ifstream in("MMcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open the file! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof \*this))break;

Displaycards();

}

}

in.close();

}

**Member.h**

#include "memberlist.h"

#include <fstream>

#include <string>

#pragma once

class member :public memberlist

{

private:

int memberid;

string paSS;

string status;

public:

member();

void set(int,string);

~member();

void Verifyuser();

void deleteMember();

void Display();

void Signup();

void Login();

void viewmembers();

};

**Member.cpp**

#include "member.h"

member::member()

{

memberid = 1234;

paSS = "harry";

status = "Member";

}

member::~member()

{

}

void member::set(int m, string p)

{

memberid = m;

paSS = p;

}

void member::Verifyuser()

{

memberlist::Verifyuser();

}

void member::deleteMember()

{

int id;

cout << "\n\t Enter a member id to delete : ";

cin >> id;

ifstream fin("Msignup.dat", ios::binary);

if (!fin)

{

cout << "\n\t Unable to open the file! ";

}

else

{

ofstream fout("temp.dat", ios::binary);

if (!fout)

{

cout << "\n\t Unable to open ";

}

while (!fin.eof())

{

fin.read((char \*)this, sizeof(\*this));

if (memberid != id)

{

fout.write((char \*)this, sizeof(this));

}

fin.read((char \*)this, sizeof(\*this));

}

fin.close();

fout.close();

remove("Msignup.dat");

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

}

}

void member::Display()

{

cout << "\n\t Status : " << status;

cout << "\n\t member name : " << name;

cout << "\n\t member age : " << age;

cout << "\n\t Member id : " << memberid;

cout << "\n\t Password : " << paSS;

cout << "\n\t email : " << Email;

cout << "\n\t cnic : " << cnic;

cout << "\n\t phone : " << phone;

}

void member::Signup()

{

cout << "\n\t --------------SIGN UP----------------\n";

cout << "\n " << "\tEnter a memberid of your choice : ";

cin >> memberid;

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

cin >> paSS;

cout << "\n\t Enter member's name : ";

cin >> name;

cout << "\n\t Enter member's age : ";

cin >> age;

cout << "\n\t Enter email of member : ";

cin >> Email;

cout << "\n\t Enter cnic of member : ";

cin >> cnic;

cout << "\n\t Enter phone of member's : ";

cin >> phone;

ofstream of("Msignup.dat", ios::app | ios::binary);

if (!of)

cout << "\n\t Unable to open the file! \n";

else

{

of.write((char \*)this, sizeof(\*this));

cout << "\n\t Account Created Successfully! \n";

}

of.close();

}

void member::Login()

{

int m;

string p;

bool flag = true;

cout << "\n\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MEMBER-LOGIN \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \n";

cout << "\n" << "\t Enter your memberid : ";

cin >> m;

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

cin >> p;

ifstream r("Msignup.dat", ios::binary);

if (!r)

cout << "\n\t Unable to open the file ! \n";

else

{

while (!r.eof())

{

r.read((char \*)this, sizeof(\*this));

if (p == paSS && m == memberid)

{

system("cls");

cout << "\n\t Login Successful ! \n ";

cout << "\n\t----------------MEMBER MENU--------------------\n";

}

else flag = false;

}

if (flag == false)

{

system("cls");

cout << "\n\t Invalid username or email! Try again \n";

Login();

}

}

r.close();

}

void member::viewmembers()

{

ifstream r("Msignup.dat", ios::binary);

if (!r)

cout << "\n\t Unable to open the file ! \n";

else

{

cout << "\n\t MEMBER DETAILS \n";

while (!r.eof())

{

if (!r.read((char \*)this, sizeof(\*this)))break;

Display();

cout << "\n";

}

}

r.close();

}

**Walima.h**

#pragma once

#include "mehindi.h"

#include <conio.h>

class walima :

public marraige

{

private:

public:

walima();

walima(int, string);

~walima();

void Addcard();

void deletecard();

void Displaycards();

void write();

int getid();

void search();

void viewcard();

void show();

};

**Walima.cpp**

#include "walima.h"

walima::walima()

{

id = 0;

name = "unknown";

}

walima::walima(int i, string n)

{

id = i;

name = n;

}

walima::~walima()

{

}

void walima::Addcard()

{

cout << "\n\t\*\*\*\*\*\*\*\*\*\*\*WALIMA-CARD\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

cout << "\n\t Enter card name : ";

cin >> name;

cout << "\n\t Enter card id : ";

cin >> id;

fflush(stdin);

cout << "\n\t Enter a message for the receiver : ";

getline(cin, message);

system("cls");

cout << "\n\t CARD CREATED SUCCESSFULLY\n";

write();

}

void walima::deletecard()

{

cout << "\n This card has been deleted! ";

}

void walima::Displaycards()

{

cout << "\n\t\*\*\*\*\*\*\*\*\*\*\*WALIMA-CARD\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout << "\n\t ID : " << id;

cout << "\n\t Name : " << name;

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

cout << "\n\t Message for receiver : " << message;

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

}

void walima::write()

{

ofstream of("Wcard.dat", ios::app | ios::binary);

if (!of)

cout << "\n\t Unable to open write! ";

else

{

of.write((char \*)this, sizeof(\*this));

}

of.close();

}

void walima::viewcard()

{

ifstream in("Wcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open write! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof(\*this)))break;

Displaycards();

cout << endl;

}

}

in.close();

}

void walima::search()

{

int id;

bool flag = false;

cout << "\n\t Enter card-id : ";

cin >> id;

ifstream in("Wcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open the file! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof(\*this)))break;

if (id == getid())

{

flag = true;

cout << "\n\t FOUND SUCCESSFULLY ! \n\n";

Displaycards();

\_getch();

exit(0);

}

}

if (flag == false)

{

cout << "\n\t Not found in Walima-Cards! \n";

}

}

in.close();

}

int walima::getid()

{

return id;

}

void walima::show()

{

ifstream in("Wcard.dat", ios::binary);

if (!in)

cout << "\n\t Unable to open the file! ";

else

{

while (!in.eof())

{

if (!in.read((char \*)this, sizeof \*this))break;

Displaycards();

}

}

in.close();

}

**Driver File:**

#include <iostream>

#include "admin.h"

#include "cards.h"

#include "baraat.h"

#include "birthcard.h"

#include "friendship.h"

#include "marraige.h"

#include "user.h"

#include "mehindi.h"

#include "walima.h"

#include <conio.h>

#include <stdio.h>

using namespace std;

int main()

{

char ch,Ch;

user \*u = new user;

member \*m = new member;

admin \*a = new admin;

cards \*c = new cards;

menu:

cout << "\n\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* WELCOME TO ELECTRONIC CARD SYSTEM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

cout << "\n\t 1) Admin Details ";

cout << "\n\t 2) Member Details ";

cout << "\n\t 3) User Details ";

cout << "\n\t 4) Signup as a User";

cout << "\n\t 5) Addusers (signup) (member/admin) ";

cout << "\n\t 6) Login as User ";

cout << "\n\t 7) Login as Member ";

cout << "\n\t 8) Login as Admin ";

cout << "\n\t 9) Delete Admin ";

cout << "\n\t 10) Delete Member ";

cout << "\n\t 11) Delete User \n\n\t choice : ";

cin >> ch;

if (ch == '1')

{

system("cls");

u->viewadmins(); // existing Admins reading data from files

goto menu;

}

else if (ch == '2')

{

system("cls");

u->viewmembers(); // data of existing members from files

goto menu;

}

else if (ch == '3')

{

system("cls");

u->viewuser();

goto menu;

}

else if (ch == '4')

{

system("cls");

u->Signup(); // signup as a user

u->Login();

}

else if (ch == '5')

{

system("cls");

u->Adduser(); // either Admin or Member

}

else if (ch == '6')

{

system("cls");

u->Login(); // admin and member class have their separat login system

}

else if (ch == '7')

{

system("cls");

m->Login();

}

else if (ch == '8')

{

system("cls");

a->Login();

}

else if (ch == '9')

{

system("cls");

a->Deleteadmin();

}

else if (ch == '10')

{

system("cls");

m->deleteMember();

}

else if (ch == '11')

{

system("cls");

u->Delete();

}

ccard:

cout << "\n\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* CARD DESIGN MENU \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

cout << "\n\t 1) Add Card ";

cout << "\n\t 2) Search Card ";

cout << "\n\t 3) View Cards ";

cout << "\n\t 4) Delete Cards \n\n\t ";

cin >> Ch;

if (Ch == '1')

{

system("cls");

c->Addcard();

goto ccard;

}

else if (Ch == '2')

{

system("cls");

c->viewcard();

}

else if (Ch == '3')

{

system("cls");

c->show();

goto ccard;

}

else if (Ch == '4')

{

system("cls");

c->deletecard();

}

else

{

cout << "\n\t Invalid Choice! Try again ";

}

\_getch();

}