



**SVKM's NMIMS**  
**Mukesh Patel School of Technology Management and**  
**Engineering, Vile Parle, Mumbai- 400056**

**Course:-** Object Oriented Programming with C++.

## **ONLINE SHOPPING SYSTEM.**

### **OOP Project**

**Academic Year-2022-23**

**Programme: B. Tech. Int. Computer Division B**

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# JUST DIAL INTERFACE

- **DISCRIPTION**

- This is a demonstration as well as a layout of famous just dial app and its interface where a user can access contacts database of different genre.
- User can search as well as browse all the contacts from the database.
- Only admins can add or delete contacts from database.
- To access the admin abilities, valid user email and password is required.

- **ALGORITHM**

STEP 1 → START

STEP 2 → DISPLAY MAIN MENU

STEP 3 → GIVE USER THE OPTION TO BROWSE CONTACT, ADMIN SECTION OR EXIT.

STEP 4 → IF BROWSE CONTACT, GOTO STEP 5. ELSE IF ADMIN, GOTO STEP 8, ELSE EXIT.

STEP 5 → GIVE USER CHOICE OF DATABASES TO CHOOSE FROM

STEP 6 → EVERY DATABASE HAS 3 OPTIONS: DISPLAY ALL CONTACTS, SEACRH A CONTACT OR GOTO STEP 5.

STEP 7 → IN SEACRH GIVE USER THE PARAMETERS TO SEACRH CONTACT AND SEARCH CONTACT ACCORDINGLY

PARAMETERS ARE: NAME, NUMBER, ADDRESS, EMAIL.

STEP 8 → IN ADMIN SECTION, ASK USER FOR VALID EMAIL ID AND PASS, IF VALID THEN GOTO ADMIN SECTION ELSE ASK FOR A RE ATTEMPT.

STEP 9 → ADMIN SECTION HAS 3 OPTIONS, ADD CONTACT, DELETE CONTACT, GOTO STEP 2.

STEP 10 → ADD CONTACT WILL TAKE CHOICE FOR DATABASE AND CONTACT PARAMETERS SAME AS SEARCH PARAMETERS. ITLL ADD CONTACT RESPECTIVELY.

STEP 11 → DELETE CONTACT WILL DELETE CONTACT ROM RESPECTIVE DATA BASE.

STEP 12 → STOP.

- **CODE →**

```
#include<iostream>
#include<fstream>
#include<iomanip>
#include<algorithm>

using namespace std;

class displayPrograms{
public:
    void display_header()
    {
        system("CLS");
        cout<<"=====
=====\\n"<<endl;
        cout<<setw(45)<<"JUST DIAL !!!\\n\\n";
        cout<<"=====
=====\\n"<<endl;
    }

    void default_menu()
    {
        cout<<"WHAT OPERATION DO YOU WANT TO DO!!"<<endl;
        cout<<"[1] DISPLAY ALL CONTACTS\\n[2] SEARCH A CONTACT\\n[3] RETURN TO
BROWSER"<<endl;
    }

    void default_menu_search()
    {
        cout<<"WITH WHAT PARAMETER DO YOU WANT TO SEARCH ?"<<endl;
        cout<<"[1] Name\\n[2] Number\\n[3] Address\\n[4] Email ID\\n[5] GO
BACK"<<endl;
    }

};

class justDial : private displayPrograms
{
private:
    string adminMAil;
    string adminPass;
    string newfName;
    string newlname;
    long long newNumber;
    string newAddress;
    string newEmail;
```

```

string fname;
string search_fname;
string lname;
string search_lname;
long long number;
long long searchNumber;
string address;
string searchAddress;
string email;
string search_email;
public:

//CORE BACKEND

void addNewContact(){
    cout<<"Enter Name : ";
    cin>>newfName>>newlName;
    cout<<"Enter Number :";
    cin>>newNumber;
    cout<<"Enter address : ";
    cin>>newAddress;
    cout<<"Enter Email Id :";
    cin>>newEmail;
}

void contact_display(){
    cout<<"-----\n";
    cout<<"Name : "<<fname<<" "<<lname<<endl;
    cout<<"Phone Number : "<<number<<endl;
    cout<<"Address : "<<address<<endl;
    cout<<"Email Id : "<<email<<endl;
    cout<<"-----\n";
}

int searchContact_input(){

    int choice;
    m:
    default_menu_search();
    cout<<"Enter Choice : ";
    cin>>choice;
    switch(choice){
        case 1:
            cout<<"Enter Name: ";
            cin>>search_fname>>search_lname;
            break;
        case 2:
            cout<<"Enter Number: ";
            cin>>searchNumber;
            break;
        case 3:

```

```

        cout<<"Enter Address :";
        cin>>searchAddress;
        break;
    case 4:
        cout<<"Enter Email ID: ";
        cin>>search_email;
        break;
    case 5:
        break;
    default:
        cout<<"Invalid input"<<endl;
        goto m;
    }
    return choice;
}

//ADMIN SECTION

void del_doc(){
    string del_fname;
    string del_lname;
    cout<<"Enter contact name to delete: ";
    cin>>del_fname>>del_lname;
    fstream myFile;
    fstream myFile1;
    myFile.open("temp.txt",ios::out|ios::app);
    myFile1.open("doctors_database.txt",ios::in);
    while(!myFile1.eof()){
        myFile1>>fname>>lname>>number>>address>>email;
        if(del_fname!=fname || del_lname!=lname ){
            myFile<<fname<<" "<<lname<<" "<<number<<" "<<address<<"
"<<email<<"\n";
        }
    }
    myFile1.close();
    myFile.close();
    remove("doctors_database.txt");
    rename("temp.txt","doctors_database.txt");
}

void del_law(){
    string del_fname;
    string del_lname;
    cout<<"Enter contact name to delete: ";
    cin>>del_fname>>del_lname;
    fstream myFile;
    fstream myFile1;
    myFile.open("temp.txt",ios::out|ios::app);
    myFile1.open("lawyers_database.txt",ios::in);
    while(!myFile1.eof()){
        myFile1>>fname>>lname>>number>>address>>email;

```

```

        if(del_fname!=fname || del_lname!=lname ){
            myFile<<fname<<" "<<lname<<" "<<number<<" "<<address<<"
"<<email<<"\n";
        }
    }
    myFile1.close();
    myFile.close();
    remove("lawyers_database.txt");
    rename("temp.txt","lawyers_database.txt");
}

void del_admin(){
    m:
    int choice;
    char ch;
    system("CLS");
    display_header();
    cout<<"From where do you want to delete contact? -->"<<endl;
    cout<<"[1] DOCTORS\n[2] LAWYERS\n[3] RETURN TO ADMIN MENU\n";
    cout<<"Enter choice :"; cin>>choice;

    switch (choice)
    {
    case 1:
        del_doc();
        cout<<"CONTACT SUCCESSFULLY DELETED"<<endl;
        break;
    case 2:
        del_law();
        cout<<"CONTACT SUCCESSFULLY DELETED"<<endl;
        break;

    case 3:
        admin_menu();
        break;
    default:
        cout<<"Invalid choice";

    }
    cout<<"Do you want to add another contact? (y/n) : ";
    cin>>ch;
    if(ch=='y')
        goto m;
    else
        admin_menu();
}

void add_doc(){
    fstream myFile;
    myFile.open("doctors_database.txt",ios::app|ios::out);
    addNewContact();
}

```

```

        myFile<<newfName<<" "<<newlName<<" "<<newNumber<<" "<<newAddress<<"
"<<newEmail<<endl;

    }

    void add_lawyer(){
        fstream myFile;
        myFile.open("lawyers_database.txt",ios::app|ios::out);
        addNewContact();
        myFile<<newfName<<" "<<newlName<<" "<<newNumber<<" "<<newAddress<<"
"<<newEmail<<endl;

    }

    void add_admin(){
        m:
        int choice;
        char ch;
        system("CLS");
        display_header();
        cout<<"Where do you want to add contact?-->"<<endl;
        cout<<"[1] DOCTORS\n[2] LAWYERS\n[3] RETURN TO ADMIN MENU\n";
        cout<<"Enter choice :"; cin>>choice;

        switch (choice)
        {
        case 1:
            add_doc();
            cout<<"CONTACT SUCCESSFULLY ADDED"<<endl;
            break;
        case 2:
            add_lawyer();
            cout<<"CONTACT SUCCESSFULLY ADDED"<<endl;
            break;

        case 3:
            admin_menu();
            break;
        default:
            cout<<"Invalid choice";

        }

        cout<<"Do you want to add another contact? (y/n) : ";
        cin>>ch;
        if(ch=='y')
            goto m;
        else
            admin_menu();
    }

    void access_check(){

```

```

        string mailId;
        string pass;
        bool accessible = false;
        char ch;
        m:
        system("CLS");
        display_header();
        cout<<"ENTER VALID EMAIL ID AND PASSWORD TO ACCESS ADMIN MENU"<<endl;
        cout<<"Enter Email id : ";
        cin>>mailId;
        cout<<"Enter Password : ";
        cin>>pass;
        fstream myFile;
        myFile.open("admin_database.txt",ios::in);
        while(!myFile.eof()){
            myFile>>adminMAil>>adminPass;
            if(adminMAil == mailId && adminPass == pass){
                accessible = true;
                break;
            }
        }
        if(accessible)
            admin_menu();
        else{
            cout<<"Invalid Email or Password\nDo you want to try again? (y/n)
: ";

            cin>>ch;
            if(ch=='y')
                goto m;
            else
                display_mainMenu();
        }

    }

void admin_menu(){
    int choice;
    system("CLS");
    display_header();
    cout<<setw(50)<<"Welcome to admin section -->"<<endl;
    cout<<"What Operation would you like to perform : "<<endl;
    cout<<"[1] ADD CONTACT\n[2] DELETE CONTACT\n[3] MAIN MENU"<<endl;
    cout<<"Enter choice : "; cin>>choice;
    switch (choice)
    {
        case 1:
            add_admin();
            break;
        case 2:
            del_admin();

```



```

        break;
    case 3:
        display_mainMenu();
        break;
    default:
        break;
    }
}

```

// DOCTOR SECTION BACKEND

```

void searchContact_doctor()
{
    m:
    system("CLS");
    display_header();
    cout<<setw(50)<<"WELCOME TO SEARCH ENGINE -->"<<endl;
    char ch;
    int choice = searchContact_input();
    if(choice == 5)
        doctor_menu();
    else{
        fstream myFile;
        myFile.open("doctors_database.txt",ios::in);
        if(choice==1){
            myFile>>fname>>lname>>number>>address>>email;
            while(!myFile.eof()){
                if((fname==search_fname && search_lname==lname) )
                    contact_display();
                myFile>>fname>>lname>>number>>address>>email;
            }
        }
        else if(choice==2){
            myFile>>fname>>lname>>number>>address>>email;
            while(!myFile.eof()){
                if((number==searchNumber) )
                    contact_display();
                myFile>>fname>>lname>>number>>address>>email;
            }
        }
        else if(choice==3){
            myFile>>fname>>lname>>number>>address>>email;
            while(!myFile.eof()){
                if((address==searchAddress))
                    contact_display();
                myFile>>fname>>lname>>number>>address>>email;
            }
        }
        else if(choice==4){
            myFile>>fname>>lname>>number>>address>>email;

```

```

        while(!myFile.eof())
            if((email == search_email) )
                contact_display();
            myFile>>fname>>lname>>number>>address>>email;
        }
    }
    cout<<"Do you want to search another contact ? (y/n) "<<endl;
    cout<<"Enter choice : ";
    cin>>ch;
    if(ch=='y')
        goto m;
    else
        doctor_menu();
}

void doctor_menu(){
    m:
    int choice;
    system("CLS");
    display_header();
    cout<<setw(50)<<"WELCOME TO DOCTORS CONTACTS!!"<<endl;
    default_menu();
    cin>>choice;
    switch(choice){
        case 1:
            display_doctors();
            break;
        case 2:
            searchContact_doctor();
        case 3:
            display_menu();
            break;
        default:
            cout<<"Invalid Choice"<<endl;
    }
    goto m;
}

void display_doctors(){
    system("CLS");
    display_header();
    cout<<setw(48)<<"LIST OF ALL DOCTORS!!!"<<endl;
    fstream myFile;
    myFile.open("doctors_database.txt",ios::in);
    myFile>>fname>>lname>>number>>address>>email;
    while(!myFile.eof()){
        contact_display();
        myFile>>fname>>lname>>number>>address>>email;
    }
}

```

```

int choice;
m:
cout<<"\n\n[1] RETURN TO DOCTORS MENU \n[2] EXIT"<<endl;
cout<<"ENTER CHOICE :"; cin>>choice;
switch(choice){
    case 1:
        system("CLS");
        doctor_menu();
        break;
    case 2:
        cout<<"Exited the menu !"<<endl;
        exit(0);
        break;
    default:
        cout<<"Invalid Choice !";
}
goto m;
}

```

// LAWYER SECTION BACKEND

```

void searchContact_lawyer()
{
    m:
    system("CLS");
    display_header();
    cout<<setw(50)<<"WELCOME TO SEARCH ENGINE -->"<<endl;
    char ch;
    int choice = searchContact_input();
    if(choice == 5)
        lawyer_menu();
    else{
        fstream myFile;
        myFile.open("lawyers_database.txt",ios::in);
        if(choice==1){
            myFile>>fname>>lname>>number>>address>>email;
            while(!myFile.eof()){
                if((fname==search_fname && search_lname==lname) )
                    contact_display();
                myFile>>fname>>lname>>number>>address>>email;
            }
        }
        else if(choice==2){
            myFile>>fname>>lname>>number>>address>>email;
            while(!myFile.eof()){
                if((number==searchNumber) )
                    contact_display();
                myFile>>fname>>lname>>number>>address>>email;
            }
        }
        else if(choice==3){

```

```

        myFile>>fname>>lname>>number>>address>>email;
        while(!myFile.eof()){
            if((address==searchAddress))
                contact_display();
            myFile>>fname>>lname>>number>>address>>email;
        }
    }
    else if(choice==4){
        myFile>>fname>>lname>>number>>address>>email;
        while(!myFile.eof()){
            if((email == search_email) )
                contact_display();
            myFile>>fname>>lname>>number>>address>>email;
        }
    }
    cout<<"Do you want to search another contact ? (y/n) "<<endl;
    cout<<"Enter choice : ";
    cin>>ch;
    if(ch=='y')
        goto m;
    else
        lawyer_menu();
}

}

void lawyer_menu(){
    m:
    int choice;
    system("CLS");
    display_header();
    cout<<setw(50)<<"WELCOME TO LAWYERS CONTACTS!!"<<endl;
    default_menu();
    cin>>choice;
    switch(choice){
        case 1:
            display_lawyers();
            break;
        case 2:
            searchContact_lawyer();
        case 3:
            display_menu();
            break;
        default:
            cout<<"Invalid Choice"<<endl;
    }
    goto m;
}

void display_lawyers(){
    system("CLS");

```

```

display_header();
cout<<setw(48)<<"LIST OF ALL LAWYERS!!!"<<endl;
fstream myFile;
myFile.open("lawyers_database.txt",ios::in);
myFile>>fname>>lname>>number>>address>>email;
while(!myFile.eof()){
    contact_display();
    myFile>>fname>>lname>>number>>address>>email;
}
int choice;
cout<<"\n\n[1] RETURN TO LAWYERS MENU \n[2] EXIT"<<endl;
m:
cout<<"ENTER CHOICE :"; cin>>choice;
switch(choice){
    case 1:
        system("CLS");
        lawyer_menu();
        break;
    case 2:
        cout<<"Exited the menu !"<<endl;
        exit(0);
        break;
    default:
        cout<<"Invalid Choice !";
}
goto m;
}

```

// MAIN MENUS

```

void display_menu(){
    int choice;
    m:
    system("CLS");
    display_header();
    cout<<"[1] DOCTORS\n[2] LAWYERS\n[3] RETURN TO MAIN MENU\n";
    cout<<"Enter choice : ";
    cin>>choice;
    switch (choice)
    {
    case 1:
        doctor_menu();
        break;
    case 2:
        lawyer_menu();
        break;
    case 3:
        display_mainMenu();
    default:
        cout<<"Invalid choice!!!";
    }
}

```

```

        goto m;
    }

    void display_mainMenu(){
        m:
        int choice;
        system("CLS");
        display_header();
        cout<<setw(48)<<"WELCOME TO JUST DIAL!"<<endl;
        cout<<"[1] BROWSE CONTACTS\n[2] ADD / DELETE CONTACTS (ADMIN
ONLY)\n[3] EXIT\n";
        cout<<"Enter choice : ";
        cin>>choice;
        switch (choice)
        {
            case 1:
                display_menu();
                break;
            case 2:
                access_check();
                break;
            case 3:
                cout<<"EXITED THE MENU!!"<<endl;
                exit(0);
                break;
            default:
                cout<<"Invalid choice!!!";
        }
        goto m;
    }
};

int main()
{
    justDial a;
    a.display_mainMenu();
    return 0;
}

```

## OUTPUT SCREENSHOTS →

```
=====
                                JUST DIAL !!!
=====

                                WELCOME TO JUST DIAL!
[1] BROWSE CONTACTS
[2] ADD / DELETE CONTACTS (ADMIN ONLY)
[3] EXIT
Enter choice : _
```

```
=====
                                JUST DIAL !!!
=====

[1] DOCTORS
[2] LAWYERS
[3] RETURN TO MAIN MENU
Enter choice : _
```

```
=====
                                JUST DIAL !!!
=====

                                WELCOME TO DOCTORS CONTACTS!!
WHAT OPERATION DO YOU WANT TO DO!!
[1] DISPLAY ALL CONTACTS
[2] SEARCH A CONTACT
[3] RETURN TO BROWSER
```

```

=====
                        JUST DIAL !!!
=====

                        LIST OF ALL DOCTORS!!!
=====
Name : Aaditya Mall
Phone Number : 9326430750
Address : Thane
Email Id : aadityamall@gmail.com
=====
Name : Arushi Sangle
Phone Number : 9819232329
Address : Kanjurnagar
Email Id : arushisangle@gmail.com
=====
Name : Manya Gor
Phone Number : 7021017065
Address : Chembur
Email Id : manya.gor686@gmail.com.edu.in
=====
Name : Mansi Chudasama
Phone Number : 9769386085
Address : Thane(W)
Email Id : mansichudasama@gmail.com
=====
Name : Shivan Kulkarni
Phone Number : 7045069796
Address : Thane(W)
Email Id : shivan.kulkarni@gmail.com
=====
Name : Rajesh Mall
Phone Number : 9820443150
Address : Thane
Email Id : rajeshmall@yahoo.com
=====
Name : Rajesh Mall
Phone Number : 9820443150
Address : Thane
Email Id : rajeshmall@yahoo.com
=====
Name : Seema Mall
Phone Number : 9920443150
Address : Thane
Email Id : seema@gmail.com
=====
Name : Keshav Mall
Phone Number : 9829901037
Address : Thane
Email Id : keshavmall@gmail.com
=====
Name : Harsh Kamdar
Phone Number : 9829290909
Address : King
Email Id : Circle
=====

[1] RETURN TO DOCTORS MENU
[2] EXIT
ENTER CHOICE :

```



```

=====
                                JUST DIAL !!!
=====

                                WELCOME TO SEARCH ENGINE -->
WITH WHAT PARAMETER DO YOU WANT TO SEARCH ?
[1] Name
[2] Number
[3] Address
[4] Email ID
[5] GO BACK
Enter Choice : 2
Enter Number: 9326430750
-----
Name : Aaditya Mall
Phone Number : 9326430750
Address : Thane
Email Id : aadityarmall@gmail.com
-----
Do you want to search another contact ? (y/n)
Enter choice : _

```

```

=====
                                JUST DIAL !!!
=====

ENTER VALID EMAIL ID AND PASSWORD TO ACCESS ADMIN MENU
Enter Email id : scdgas
Enter Password : 345678
Invalid Email or Password
Do you want to try again? (y/n) :

```

```

=====
                                JUST DIAL !!!
=====

                                Welcome to admin section -->
What Operation would you like to perform :
[1] ADD CONTACT
[2] DELETE CONTACT
[3] MAIN MENU
Enter choice : _

```

```
=====
                        JUST DIAL !!!
=====

Where do you want to add contact? -->
[1] DOCTORS
[2] LAWYERS
[3] RETURN TO ADMIN MENU
Enter choice : _
```

```
=====
                        JUST DIAL !!!
=====

Where do you want to add contact? -->
[1] DOCTORS
[2] LAWYERS
[3] RETURN TO ADMIN MENU
Enter choice :1
Enter Name : Shreyash Kothari
Enter Number :9876543210
Enter address : Thane
Enter Email Id :shreyask@gmail.com
CONTACT SUCCESSFULLY ADDED
Do you want to add another contact? (y/n) : _
```

```
=====
                        JUST DIAL !!!
=====

From where do you want to delete contact? -->
[1] DOCTORS
[2] LAWYERS
[3] RETURN TO ADMIN MENU
Enter choice :1
Enter contact name to delete: Shreyash Kothari
CONTACT SUCCESSFULLY DELETED
Do you want to add another contact? (y/n) : _
```