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A

MICRO PROJECT REPORT

SUBJECT: Object-oriented programming

Subject Code: 22316;   Course: CO3I

Year: 2019-20;   Semester: Third;   Term:ODD;

ON

"Phonebook Management System C++"

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INTRODUCTION

Phonebook Management System C++

Similar to Phonebook and Contact Management System, this phonebook management system project in C++ is a simple console application built without graphics. In this project, users can add a new phone record, display existing phone records, search a particular phone record and delete phone records. This simple project will teach you file handling operations such as how to add, search, modify, list and delete records using file.

The source code is complete and totally error-free. It is just over 300 lines, simple to analyze and understand. The source code of phonebook management system can be compiled in both Turbo C++ and Code::Blocks (might require some modifications to the code).

Aim:- Project for "Phonebook

 MANEGEMENT SYSTEM"

Action plan:-

Sr no	Detail of activity	Plan start date	Plan finished date	Responsible of team member
1	Topic search			Ashutosh Palhare
2	Topic implementation			Ashutosh Palhare
3	Actual implementation			Tejas Phatke
4	Result and analysis			Jawale Paresh

Title :- " Develop a Project Of Phonebook

MANEGEMENT SYSTEM"

Brief Description:-

This Phonebook Management System C++ project in C++ is a simple console application developed without the use of graphics component. It is more of a database project in C++, and is built using the language's file handling mechanism. It is suitable for beginners who want to learn how to add, edit, search, delete or modify records in a file, and how to use file as database overall.

Course outcome integrated:-

1. With C++ Program
2. With Output

Actual process followed:-

1. First we identified total project.
2. We define basic project specification.
3. First define initial plan.
4. Then add people to project.

Actual resoucessrequired:-

SR NO	Name	Specification of	Quantity
1	Computer	2gb ram 500hd	1
2	Technical books	Use of internet	5
3	Teacher guidance	Information about project	2

Abstract:-

1. Add phone record: This features adds a new phone record to the file. It asks for the phone number and name of the person whose record is to be created. Upon successful creation of a new phone record, the phonebook management system program displays the message – "Phone details successfully stored." If the new phone record already exists in the file, it displays the message – "Phone id already exists! Try again…"

2. Search phone records: This function is very simple, and with it users can search for a phone record either by providing the phone number or by the name of a particular person whose record has already been added in the file.

3. Show phone records: In phonebook management system, this feature allows user to list all the phone records stored in file. The information displayed here are phone record number, phone number and the person's name.

4. Modify phone record: This simple feature allows user to edit the phone number and person name corresponding to a particular phone record. Upon successful modification, the program displays the message – "Record modified successfully!"

5. Delete phone record: This feature deletes added phone record from the file. The user needs to provided the phone number to be deleted from phonebook management system. Upon successful deletion, it displays the message – "Record deleted!". If the phone number provided is not found in file, the program displays the message – "Record doesn't exist! Try again…"

Header Files Used: This project utilizes only 4 header files – *conio*, *stdio*, *alloc* and *string*. To make the project simple, graphics has not been used here, but you can add graphics features to this project to make it a better one.

Program for "PHONEBOOK MANEGEMENT SYSTEM"

```cpp
#include<fstream.h>

#include<conio.h>

#include<stdio.h>

void menu();

void AddNumber();

void DisplayRecords();

void SearchBySrNo();

void deleteRecord();

void modifyRecord();

class PhoneBook{

        int srno;

        char name[25];

        char mobile[15];

        char email[30];

        char group[20];

        public:

        int getSrNo() {return srno;}

        void storeData()

        {

                cout<<"\n...............CREATE NEW PHONE RECORD...............\n";

                cout<<"Enter Serial Number : "; cin>>srno; cin.ignore();

                cout<<"Enter Record Name   : "; cin.getline(name,25);

                cout<<"Enter Mobile Number : "; cin.getline(mobile,15);

                cout<<"Enter E-Mail I. D.  : "; cin.getline(email,30);

                cout<<"Enter Record Group  : "; cin.getline(group,20);
```

```cpp
		cout<<endl;

	}

	void showData()

	{

		cout<<"\n..............PHONE BOOK RECORD..............\n";

		cout<<"Sr. No.    : "<<srno<<endl;

		cout<<"Name       : "<<name<<endl;

		cout<<"Mobile No. : "<<mobile<<endl;

		cout<<"Email ID   : "<<email<<endl;

		cout<<"Group      : "<<group<<endl;

	}

}b;

void AddNumber()

{

	ofstream fout;

	fout.open("PhonBook.dat",ios::out|ios::binary|ios::app);

	b.storeData();

	fout.write((char*)&b,sizeof(b));

	fout.close();

	cout<<"\nRecord Saved to File......\n";

}

void DisplayRecords()

{

	ifstream fin;

	fin.open("PhonBook.dat",ios::out|ios::binary|ios::app);

	while(fin.read((char*)&b,sizeof(b)))
```

```
                {

                        b.showData();

                }

                fin.close();

                cout<<"\nReading of Data File Completed......\n";

        }

        void SearchBySrNo()

        {

                ifstream fin;

                int n, flag=0;

                fin.open("PhonBook.dat",ios::out|ios::binary|ios::app);

                cout<<"Enter Serial Number of Record To Display: ";

                cin>>n;


                while(fin.read((char*)&b,sizeof(b)))

                {

                        if(n==b.getSrNo())

                        {

                                b.showData();

                                flag++;

                                cout<<"\n\n.....Record Found and Displayed......\n";

                        }

                }

                fin.close();

                if(flag==0)

                        cout<<"\nThe Record of Serial Number "<<n<<" is not in file....\n";
```

```cpp
        cout<<"\nReading of Data File Completed......\n";

}

void deleteRecord()

{

        ifstream fin;

        ofstream fout;

        int n, flag=0;

        fin.open("PhonBook.dat",ios::out|ios::binary|ios::app);

        fout.open("temp.dat",ios::out|ios::binary);

        cout<<"Enter Serial Number of Record To Delete : ";

        cin>>n;

        while(fin.read((char*)&b,sizeof(b)))

        {

                if(n==b.getSrNo())

                {

                        cout<<"\nThe Following record is deleted....\n";

                        b.showData();

                        flag++;

                }

                else

                {

                        fout.write((char*)&b,sizeof(b));

                }

        }

        fin.close();

        fout.close();
```

```cpp
        if(flag==0)

                cout<<"\nThe Record of Serial Number "<<n<<" is not in file....\n";

        cout<<"\nReading of Data File Completed......\n";

        remove("PhonBook.dat");

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

}


void modifyRecord()

{

        fstream fio;

        int n, flag=0,pos;

        fio.open("PhonBook.dat",ios::out|ios::binary|ios::in);


        cout<<"Enter Serial Number of Record To Modify : ";

        cin>>n;


        while(fio.read((char*)&b,sizeof(b)))

        {

                pos=fio.tellg();

                if(n==b.getSrNo())

                {

                        cout<<"\nThe Following record will be modified....\n";

                        b.showData();

                        flag++;

                        cout<<"\nRe-Enter the New Details.....\n";

                        b.storeData();
```

```cpp
                        fio.seekg(pos-sizeof(b));

                        fio.write((char*)&b,sizeof(b));

                        cout<<"\n....Data Modified Successfully....\n";

                }

        }

        fio.close();

        if(flag==0)

                cout<<"\nThe Record of Serial Number "<<n<<" is not in file....\n";

        cout<<"\nReading of Data File Completed......\n";

}

void menu()

{

        int ch;

        do

        {

                clrscr();

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

                cout<<"        PHONE BOOK MANAGEMENT\n";

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

                cout<<"::::::::::::: PROGRAM MENU ::::::::::::::\n";

                cout<<"0. Exit\n";

                cout<<"1. Save New Phone Record\n";

                cout<<"2. Display All Saved Records\n";

                cout<<"3. Search Specific Record\n";

                cout<<"4. Delete Specific Record\n";

                cout<<"5. Modify Existing Record\n";
```

```cpp
            cout<<"Enter Your Choice : ";

            cin>>ch;

            clrscr();

            switch(ch)

            {

                    case 1: AddNumber(); break;

                    case 2: DisplayRecords(); break;

                    case 3: SearchBySrNo(); break;

                    case 4: deleteRecord(); break;

                    case 5: modifyRecord(); break;

            }

            getch();

    }while(ch);

}


void main()

{

    menu();

}
```

Output Screenshots:-

```
. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
                    PHONE BOOK MANAGEMENT
. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .


::::::::::::::: PROGRAM MENU :::::::::::::::
0. Exit
1. Save New Phone Record
2. Display All Saved Records
3. Search Specific Record
4. Delete Specific Record
5. Modify Existing Record
Enter Your Choice :
```

```
. . . . . . . . . . . . . . .PHONE BOOK RECORD. . . . . . . . . . . . . . .
Sr. No.      : 1
Name         : Ashutosh Palhare
Mobile No.   : 8329450916
Email ID     : ashutosh786palhare@gmail.com
Group        : SYCO

. . . . . . . . . . . . . . .PHONE BOOK RECORD. . . . . . . . . . . . . . .
Sr. No.      : 1
Name         : Ashutosh Palhare
Mobile No.   : 9823281314
Email ID     : ashutosh420@gmail.com
Group        : SYCO

Reading of Data File Completed......
```

CONCLUSION

This PHONEBOOK MANEGEMENT SYSTEM project will server as a useful; approach to data base dialog box to add and delete the contast for the person.if server as helpful approach for the user.it provide easy way of add and delete the contast. It reduces time taken by the user to save the contast.thus the project is the user friendly approach.