## INTRODUCTION

* The Phone Book Management System In C is developed in C programming language, This Phone Book In C allows you to perform simple Phonebook operations like in your mobile. You can add, list, modify, search and delete phonebook records.
* The concept of file management and data structure is often used in almost all functions in this project. It uses functions, file management, and data structure.

## RESEARCH

* This application provides information on adding, viewing, modifying, receiving, and deleting data from/to files. Adding new entries, browsing them, editing and updating, searching for saved contacts, and deleting contacts in the phonebook is one of the most important services that become the main menu in the phonebook application. When you add anything to your phone book, you will be asked for personal information such as name, gender, first name, phone number.

## FEATURES

* show contact details : you will see list of names together with their phone no's.
* Add contacts : this feature permits you to add a feature of a replacement contact to a contact list of phonebook.
* edit contacts : this feature of replacement a contact from already existing contacts.
* delete contacts : this feature will be deleted from contact list.
* search contacts : this feature will search for a contact.
* Exit : this feature will exit from the entire phonebook.

## REQUIREMENTS

* visualstudio code to run and compile the program
* code blocks to divide code into modules

## SWOT ANALYSIS

* STRENGTH : it is easy for user to share complete information about the contact.
* WEAKNESS : Sometimes it becomes difficult to store more contacts when exceeds limit.
* OPPURTUNITY : it is very efficient to use in general purpose. and also less storage space required.
* THREATS : it may sometimes results in timelimit exceeds

## 4W'S & 1H

* WHO : Anyone can simply use this for contact details or adding or searching or modify contact.
* WHAT : devoloping a phonebook for contacts.
* WHY : This program is verry useful now-a-days to store complete information under single contact number.
* WHERE: This application is code & made in Vscode.
* HOW : The phonebook application is developed using C programming.

## DETAIL REQUIREMENETS

* This APP is to develop a phonebook contact to user friendly application using c programming and This Requres preproccesors commands, structures, variables,statements & expressions, functions.
* This program is run and compile using vscode.

## Low level requirements

* gcc compiler
* vscode

## High level requirements

* vscode

## Source Code:

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

void add();

void search();

void delete();

void view();

void about();

void main()

{

  system ("cls");

    printf("\t\*\*\*\*\*PHONE BOOK\*\*\*\*\*\n");

    printf("\t 1. Add Contact\n");

    printf("\t 2. Search Contact\n");

    printf("\t 3. Delete Contact\n");

    printf("\t 4. View All Contact\n");

    printf("\t 5. About developer\n");

    printf("\t 6. Exit\n");

    printf("\nEnter Your Choice:-");

    int option;

    scanf("%d",&option);

    switch(option)

    {

    case 1:

        add();

        break;

    case 2:

        search();

        break;

    case 3:

        delete();

        break;

    case 4:

        view();

        break;

    case 5:

        about();

        break;

    case 6:

        exit(0);

    default:

        main();

    }

}

void add()

{

    FILE \*fp;

    fp=fopen("contact.txt","a+");

    system("cls");

    printf("\t\*\*\*\*\*ADD CONTACT\*\*\*\*\*");

    printf("\n\tName    :-\n");

    char name[20];

    scanf("%s", name);

    printf("\n\tMob No. :-  " );

    char mob[20];

    scanf(mob);

    fprintf(fp,"%s\n",name);

    fprintf(fp, "%s\n", mob);

    fclose(fp);

    printf("\n\tPRESS ANY KEY TO CONTINUE");

    getc;

    main();

}

void search()

{

    FILE \*fp;

    fp=fopen("contact.txt","r");

    system("cls");

    printf("\t\*\*\*\*\*SEARCH CONTACT\*\*\*\*\*");

    printf("\n\t Enter Name :-");

    char name[20];

    scanf("%s",name);

    char name1[20],mob[20];

    while(fscanf(fp,"%s %s",name1,mob)!=EOF)

    {

        if(strcmp(name,name1)==0)

        {

            printf("\n\tNAME     :- %s\n",name1);

            printf("\n\tMOB NO.  :- %s\n",mob);

        }

    }

    fclose(fp);

    printf("\n\tPRESS ANY KEY TO CONTINUE");

    getc;

    main();

}

void delete()

{

    FILE \*fp,\*fp1;

    fp=fopen("contact.txt","r+");

    fp1=fopen("temp.txt","w");

    system("cls");

    printf("\t\*\*\*\*\*DELETE CONTACT\*\*\*\*\*");

    printf("\n\t Enter Name :-");

    char name[20];

    scanf("%s",name);

    char name1[20],mob[20];

    while(fscanf(fp,"%s %s",name1,mob)!=EOF)

    {

        if(strcmp(name,name1)==0)

        {

            continue;

        }

        fprintf(fp1,"%s %s\n",name1,mob);

    }

    fclose(fp);

    fclose(fp1);

    fp=fopen("contact.txt","w");

    fp1=fopen("temp.txt","r");

    while(fscanf(fp1,"%s %s",name1,mob)!=EOF)

    {

        fprintf(fp,"%s %s\n",name1,mob);

    }

    fclose(fp);

    fclose(fp1);

    remove("temp.txt");

    printf("\n\tPRESS ANY KEY TO CONTINUE");

    getc;

    main();

}

void view()

{

    FILE \*fp;

    fp=fopen("contact.txt","r");

    system("cls");

    printf("\t\*\*\*\*\*ALL CONTACTS\*\*\*\*\*");

    char name1[20],mob[20];

    while(fscanf(fp,"%s %s",name1,mob)!=EOF)

    {

        printf("\n\t NAME    :-  %s",name1);

        printf("\n\t MOB NO. :-  %s",mob);

    }

    fclose(fp);

    printf("\n\tPRESS ANY KEY TO CONTINUE");

    getc;

    main();

}

void about()

{

    system("cls");

    printf("\n\t this project is made by MUNNA\n");

    printf("\t Profession Web Developer\n");

    printf("\t munnashaik@gmail.com\n");

    printf("\t Institute of science & technology\n");

    printf("\n\tPRESS ANY KEY TO CONTINUE");

    getc;

    main();

}

## OUTPUT:

## 