CONTACT MANAGEMENT SYSTEM

NAME - SIDDHANT RATH

REG NO. - **RA2111002010020**

DEPARTMENT - **MECHANICAL**

SUBMITTED TO:

DR. R. RAJKUMAR

DSBS

SCHOOL OF COMPUTING

SRMIST

JANUARY 2022

The "Contact Management System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly. Contact Management System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources.

Every organization, whether big or small, has challenges to overcome and managing the information of Credential, Contact, Profile, Mobile, Emails. Every Contact Management System has different Contact needs, therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executive who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.
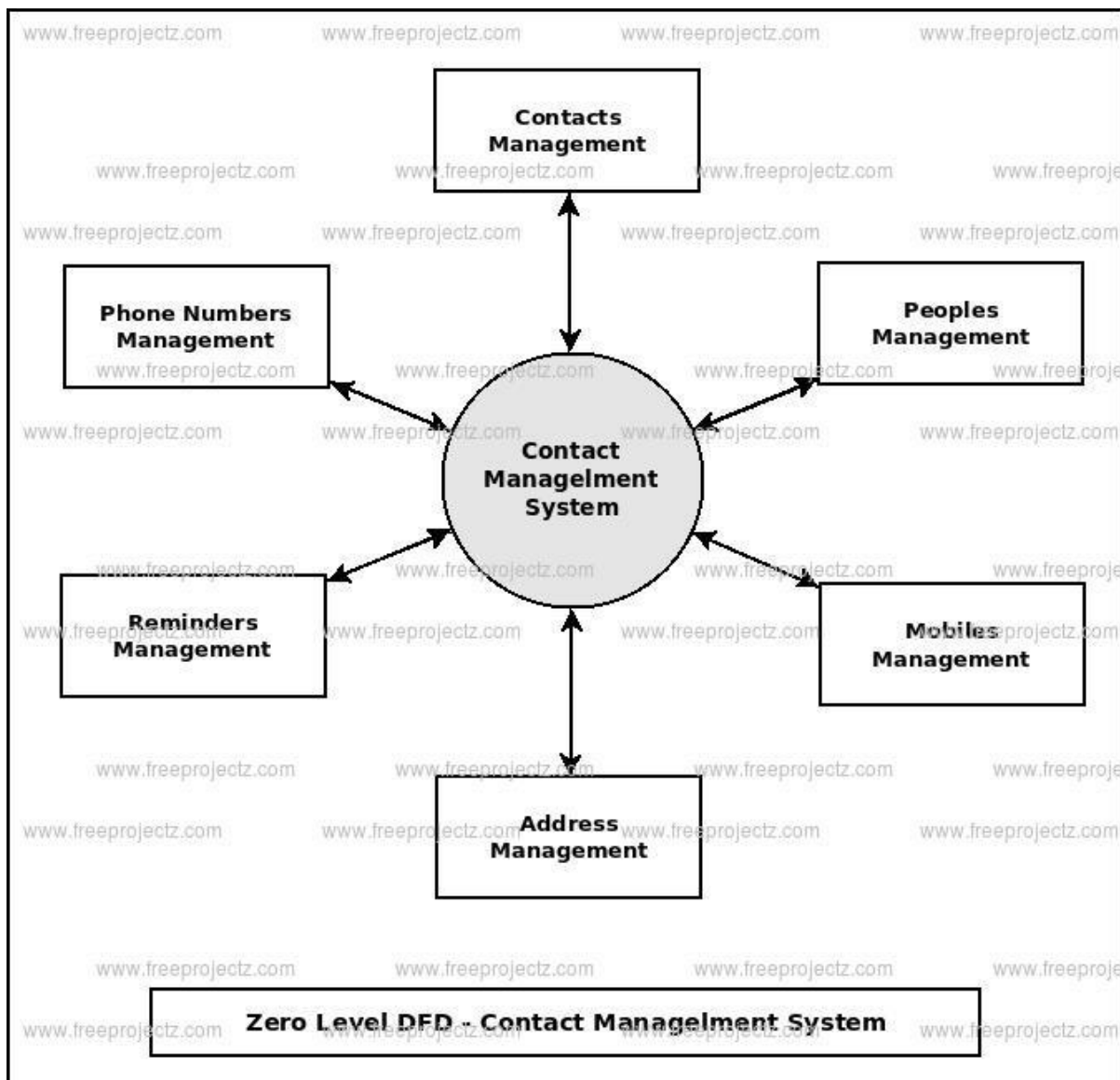
In this project you we get to know how to do file handling ,how to write data,delete data and search data form file.

Contact Management System in C: File handling, data structure, functions are the main things which make up this simple C mini project.

<u>The key features of contact management system are listed below:</u>

- <u>Add new contacts:</u> with information such as name, phone number, address, and email.
- <u>List all contacts:</u> lists all the contacts stored in file with their respective contact details.
- <u>Search contacts:</u> based on name and phone number.
- <u>Edit contacts:</u> edit information given while adding the contacts – name, phone number, address, and email.
- <u>Delete contacts:</u> deletes contacts from file.

FLOWCHART:

Zero Level DFD - Contact Managelment System

PROGRAM CODE:

```c
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
#include<conio.h>
struct
{
  char name[25];
  char phone[25];
  char address[50];
  char email[25];
} c;
FILE *fp;
FILE *fp1;
int add_contact ();
```

```c
int view_contact ();
int delete_contact ();
int search_contact ();
int edit_contact ();
int
main ()
{
  system ("cls");           /* ***********Main menu
*********************  */
  int choice;
  printf ("\n\t **** Welcome to Contact Management System ****");
  while (1)
    {
      printf
      ("\n\n\n\t\t\tMAIN MENU\n\t\t=====================\n\t\t[1]
Add a new Contact\n\t\t[2] List all Contacts\n\t\t[3] Search for
contact\n\t\t[4] Edit a Contact\n\t\t[5] Delete a Contact\n\t\t[6]
Exit\n\t\t=================\n\t\t");

      printf ("\n\t\tEnter the choice: ");

      scanf ("%d", &choice);

      switch (choice)
      {
      case 1:
        add_contact ();
        break;
      case 2:
        view_contact ();
        break;
      case 3:
        search_contact ();
        break;
      case 4:
        edit_contact ();
        break;
      case 5:
        delete_contact ();
        break;
      case 6:
        exit (0);
        break;
      default:
        printf ("wrong choice !!!!!!!");
      }
    }
}

int
add_contact ()
{
  system ("cls");
  char r[10];
  char number[10];
  gets (r);
```

```c
  fp = fopen ("contact.txt", "a+");
  {
    printf ("\n\n\n\t\t\t\tName : ");
    scanf ("%s", c.name);
    printf ("\n\t\t\t\tPhone Number : ");
    scanf ("%s", &c.phone);
    printf ("\n\t\t\t\tAddress : ");
    scanf ("%s", c.address);
    printf ("\n\t\t\t\tEmail : ");
    scanf ("%s", c.email);
    fprintf (fp, "%s %s %s %s\n", c.name, c.phone, c.address,
c.email);
    printf ("\n\n\t\t\t\tRecord insert successful");

  }

  fclose (fp);

}

int
view_contact ()
{
  system ("cls");
  fp = fopen ("contact.txt", "r");
  if (fp == NULL)
    {
      printf ("file does not found !");
      exit (1);
    }
  else
    fp = fopen ("contact.txt", "r");
  {
    printf
      ("\n\n\n\t\tName                   Phone number
Address              Email\n");
    printf

("=================================================================
=====================");
    while (fscanf (fp, "%s %s %s %s\n", c.name, c.phone, c.address,
c.email)
        != EOF)
      {
      printf ("\n\nNAME: %s", c.name);
      printf ("\nPHONE NUMBER : %s", c.phone);
      printf ("\nADDRESS : %s", c.address);
      printf ("\nEMAIL : %s", c.email);
      }
    printf

("\n\n=============================================================
=========================");

  }
  fclose (fp);
```

```c
}

int
delete_contact ()
{
  system ("cls");
  fp = fopen ("contact.txt", "r");
  fp1 = fopen ("temp.txt", "a");
  char number[100];
  char date[20];
  int f = 0;
  printf ("\n\n\n\t\t\t\tenter your name you want to Delete :  ");
  scanf ("%s", &number);

  while (fscanf (fp, "%s %s %s %s\n", c.name, c.phone, c.address,
c.email) !=
      EOF)
    {
      if (strcmp (c.name, number) == 0)
      {
        f = 1;
        printf ("\n\n\n\t\t\t\tDelete successfull\n\n");
      }
      else
      {
        fprintf (fp1, "%s %s %s %s\n", c.name, c.phone, c.address,
c.email);
      }

    }
  if (f == 0)
    {
      printf ("\n\n\t\t\tname not found");
    }
  fclose (fp);
  fclose (fp1);
  fp = fopen ("contact.txt", "w");
  fclose (fp);
  fp = fopen ("contact.txt", "a");
  fp1 = fopen ("temp.txt", "r");
  while (fscanf (fp1, "%s %s %s %s\n", c.name, c.phone, c.address,
c.email) !=
      EOF)
    {
      fprintf (fp, "%s %s %s %s\n", c.name, c.phone, c.address,
c.email);
    }
  fclose (fp);
  fclose (fp1);
  fp = fopen ("temp.txt", "w");
  fclose (fp);

}

int
```

```c
search_contact ()
{
  system ("cls");
  char number[30];
  fp = fopen ("contact.txt", "r");
  printf ("\n\n\n\t\t\t\tenter your name  :  ");
  scanf ("%s", &number);
  if (fp == NULL)
    {
      printf ("file does not found !");
      exit (1);
    }
  else
    {
      fp = fopen ("contact.txt", "r");
      {
      while (fscanf
             (fp, "%s %s %s %s\n", c.name, c.phone, c.address,
          c.email) != EOF)
        {
          if (strcmp (c.name, number) == 0)
            {
            printf
              ("\n\n\n\t\tName                    Phone number
Address              Email\n");
            printf

("================================================================
======================");
            printf ("\n\nNAME: %s", c.name);
            printf ("\nPHONE NUMBER : %s", c.phone);
            printf ("\nADDRESS : %s", c.address);
            printf ("\nEMAIL : %s", c.email);
            printf

("\n\n================================================================
==========================");
            }

        }
      }
    }
  fclose (fp);

}

int
edit_contact ()
{
  system ("cls");
  int choice;
  char number[50];
  char present[15];
  int f = 0;
  fp = fopen ("contact.txt", "r");
  fp1 = fopen ("temp.txt", "a");
```

```c
    printf ("\n\n\t\t\twhat would you like to edit?");
    printf ("\n\n\t\t\t[1] Name Edit ");
    printf ("\n\t\t\t[2] Phone Number Edit ");
    printf ("\n\t\t\t[3] Address edit");
    printf ("\n\t\t\t[4] Email edit");
    printf ("\n\t\t\t[5] Back To The Main Menu");
    printf ("'\n\n\t\t\t Enter your choice : ");
    scanf ("%d", &choice);
    if (choice == 1)
      {
        printf ("\n\n\n\t\t\t\t Enter your Name :  ");
        scanf ("%s", number);
        while (fscanf (fp, "%s %s %s %s\n", c.name, c.phone,
c.address, c.email)
              != EOF)
        {
          if (strcmp (c.name, number) == 0)
            {
              f = 1;
              printf ("\n\n\t\t\tEnter The New Name :");
              scanf ("%s", present);
              fprintf (fp1, "%s %s %s %s\n", present, c.phone,
c.address,
                      c.email);
              printf ("\n\n\n\t\t\t\tsuccessfully update\n\n ");
            }
          else
            {
              fprintf (fp1, "%s %s %s %s\n", c.name, c.phone,
c.address,
                      c.email);
            }

        }
        if (f == 0)
        {
          printf ("\n\n\t\t\tName not found");
        }
        fclose (fp);
        fclose (fp1);
        fp = fopen ("contact.txt", "w");
        fclose (fp);
        fp = fopen ("contact.txt", "a");
        fp1 = fopen ("temp.txt", "r");
        while (fscanf
              (fp1, "%s %s %s %s\n", c.name, c.phone, c.address,
              c.email) != EOF)
        {
          fprintf (fp, "%s %s %s %s\n", c.name, c.phone, c.address,
c.email);
        }
        fclose (fp);
        fclose (fp1);
        fp = fopen ("temp.txt", "w");
        fclose (fp);
      }
```

```c
  if (choice == 2)
    {
      printf ("\n\n\n\t\t\t\t Enter your Name :  ");
      scanf ("%s", number);
      while (fscanf (fp, "%s %s %s %s\n", c.name, c.phone,
c.address, c.email)
          != EOF)
      {
        if (strcmp (c.name, number) == 0)
          {
            f = 1;
            printf ("\n\n\t\t\tEnter Your New Phone Number :");
            scanf ("%s", present);
            fprintf (fp1, "%s %s %s %s\n", c.name, present,
c.address,
                c.email);
            printf ("\n\n\n\t\t\t\tsuccessfully update\n\n ");
          }
        else
          {
            fprintf (fp1, "%s %s %s %s\n", c.name, c.phone,
c.address,
                c.email);
          }

      }
      if (f == 0)
      {
        printf ("\n\n\t\t\tName not found");
      }
      fclose (fp);
      fclose (fp1);
      fp = fopen ("contact.txt", "w");
      fclose (fp);
      fp = fopen ("contact.txt", "a");
      fp1 = fopen ("temp.txt", "r");
      while (fscanf
          (fp1, "%s %s %s %s\n", c.name, c.phone, c.address,
          c.email) != EOF)
      {
        fprintf (fp, "%s %s %s %s\n", c.name, c.phone, c.address,
c.email);
      }
      fclose (fp);
      fclose (fp1);
      fp = fopen ("temp.txt", "w");
      fclose (fp);
    }
  if (choice == 3)
    {
      printf ("\n\n\n\t\t\t\t Enter your Name :  ");
      scanf ("%s", number);
      while (fscanf (fp, "%s %s %s %s\n", c.name, c.phone,
c.address, c.email)
          != EOF)
      {
```

```c
            if (strcmp (c.name, number) == 0)
              {
                f = 1;
                printf ("\n\n\t\t\tEnter The New Address :");
                scanf ("%s", present);
                fprintf (fp1, "%s %s %s %s\n", c.name, c.phone, present,
                        c.email);
                printf ("\n\n\n\t\t\t\tsuccessfully update\n\n ");
              }
            else
              {
                fprintf (fp1, "%s %s %s %s\n", c.name, c.phone,
c.address,
                        c.email);
              }

          }
        if (f == 0)
          {
            printf ("\n\n\t\t\tName not found");
          }
        fclose (fp);
        fclose (fp1);
        fp = fopen ("contact.txt", "w");
        fclose (fp);
        fp = fopen ("contact.txt", "a");
        fp1 = fopen ("temp.txt", "r");
        while (fscanf
              (fp1, "%s %s %s %s\n", c.name, c.phone, c.address,
              c.email) != EOF)
          {
            fprintf (fp, "%s %s %s %s\n", c.name, c.phone, c.address,
c.email);
          }
        fclose (fp);
        fclose (fp1);
        fp = fopen ("temp.txt", "w");
        fclose (fp);
      }
    if (choice == 4)
      {
        printf ("\n\n\n\t\t\t\t Enter your Name :  ");
        scanf ("%s", number);
        while (fscanf (fp, "%s %s %s %s\n", c.name, c.phone,
c.address, c.email)
              != EOF)
          {
            if (strcmp (c.name, number) == 0)
              {
                f = 1;
                printf ("\n\n\t\t\tEnter The New Email :");
                scanf ("%s", present);
                fprintf (fp1, "%s %s %s %s\n", c.name, c.phone,
c.address,
                        present);
                printf ("\n\n\n\t\t\t\tsuccessfully update\n\n ");
```

```c
            }
        else
            {
                fprintf (fp1, "%s %s %s %s\n", c.name, c.phone,
c.address,
                    c.email);
            }

        }
        if (f == 0)
        {
            printf ("\n\n\t\t\tName not found");
        }
        fclose (fp);
        fclose (fp1);
        fp = fopen ("contact.txt", "w");
        fclose (fp);
        fp = fopen ("contact.txt", "a");
        fp1 = fopen ("temp.txt", "r");
        while (fscanf
            (fp1, "%s %s %s %s\n", c.name, c.phone, c.address,
            c.email) != EOF)
        {
            fprintf (fp, "%s %s %s %s\n", c.name, c.phone, c.address,
c.email);
        }
        fclose (fp);
        fclose (fp1);
        fp = fopen ("temp.txt", "w");
        fclose (fp);
    }
  if (choice == 5)
    {
        main ();
    }

}
```

OUTPUT:

```
       **** Welcome to Contact Management System ****


                    MAIN MENU
              ====================
              [1] Add a new Contact
              [2] List all Contacts
              [3] Search for contact
              [4] Edit a Contact
              [5] Delete a Contact
              [6] Exit
              =================

              Enter the choice: █
```

ADDING A CONTACT:

```
  Enter the choice:


          Name : Siddhant

          Phone Number : 8127255677

          Address : 53/2 Nehru enclave lucknow cantt

          Email :

          Record insert successful
```

LIST OF CONTACTS:

```
NAME: Siddhant
PHONE NUMBER : 8127255677
ADDRESS : 53/2
EMAIL : Nehru

NAME: Rishab
PHONE NUMBER : 9658434490
ADDRESS : camp
EMAIL : Pune
```

SEARCHING A CONTACT:

```
                      enter your name  :  Rishab


            Name              Phone number        Address            Email
==============================================================================
NAME: Rishab
PHONE NUMBER : 9658434490
ADDRESS : camp
EMAIL : Pune


==============================================================================
```

EDITING A CONTACT:

```
        what would you like to edit?

        [1] Name Edit
        [2] Phone Number Edit
        [3] Address edit
        [4] Email edit
        [5] Back To The Main Menu'

         Enter your choice : 2



                Enter your Name :  Rishab


        Enter Your New Phone Number :
```
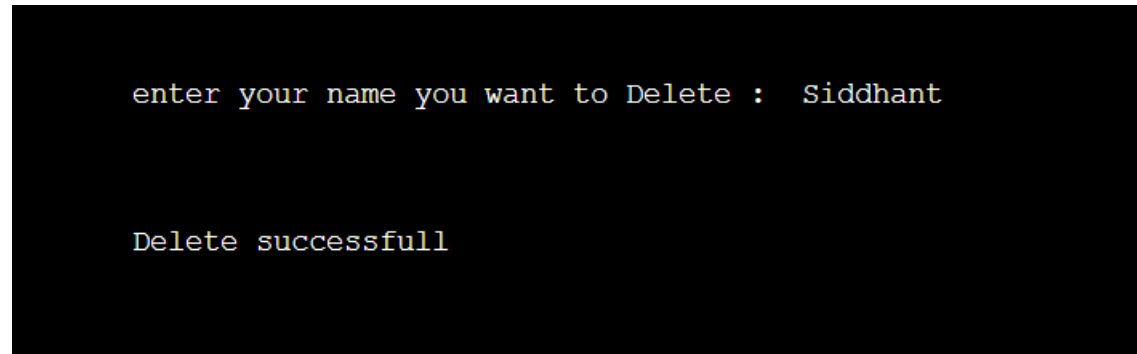
CHANGING A NUMBER:

```
            Name              Phone number        Address          Email
========================================================================

NAME: Rishab
PHONE NUMBER : 9957700705
ADDRESS : camp
EMAIL : Pune


========================================================================
```

DELETING A CONTACT:

```
enter your name you want to Delete :  Siddhant


Delete successfull
```

SUMMARY:

This project is only a humble venture to satisfy the needs to manage their project work. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the school. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses. At the end it is concluded that we have made effort on following points

THANKS NOTE:

I am very grateful to my Dr.R Rajukumar(DSBS SCHOOL OF COMPUTING,SRMIST) for helping me out with this project and leading me in the right direction to achieve the results and the outcome of the program successfully.It was a very good experience to put in the efforts while working on this mini project.I would like to thank the faculty for cooperating and showing such exceptional support.Thank you.

REFERENCES:

Google

Mini Project in C Contact Management System | Code with C

http://www.github.com/