



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, KATTANKULATHUR

PPS

MINI PROJECT IN C USING HANDLING

CONTACT MANAGEMENT

RA2111050010010

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Mini Project Description:

The Mini-Project Contact Management System is useful in multiple ways such as adding a contact, displaying the list of contacts, modifying the list of contacts, searching from the list of contacts, and also deleting the contacts. The contact fields are Name, mobile phone number, Address and email address. This contact management system is useful for storing as many contacts as possible. This is a model of how the original contact system works in a mobile phone.

SOURCE CODE :

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<process.h>
#include<stdlib.h>
struct contact
{
    long ph;
    char name[20],add[20],email[30];
} list;
char query[20],name[20];
FILE *fp, *ft;
int i,n,ch,l,found;
int main()
{
```

```

system("cls"); /* *****Main menu
***** */

printf("\n\t **** Welcome to Contact Management System ****");
printf("\n\n\n\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[0]
Exit\n\t\t===== \n\t\t");

printf("Enter the choice:");
scanf("%d",&ch);
switch(ch)
{
case 0:
    printf("\n\n\t\tAre you sure you want to exit?");
    break;
/* *****Add new contacts***** */
case 1:
    system("cls");
    fp=fopen("contact.dll","a");
    for (;;)
    {
        fflush(stdin);
        printf("To exit enter blank space in the name input\nName (Use
identical):");
        scanf("%s",&list.name);
        if(strcmp(list.name,"")==0 || strcmp(list.name," ")==0)
            break;
        fflush(stdin);
        printf("Phone:");
    }
}

```

```

scanf("%ld",&list.ph);
fflush(stdin);
printf("address:");
scanf("%o[^\n]",&list.add);
fflush(stdin);
printf("email address:");
gets(list.email);
printf("\n");
fwrite(&list,sizeof(list),1,fp);
}
fclose(fp);
break;
/* *****list of
contacts***** */
case 2:
    system("cls");

printf("\n\tt===== \n\t\tLIST OF
CONTACTS\n\tt===== \n\nName
\t\tPhone No\t\tAddress\t\tE-mail
ad.\n=====
===== \n\n");
for(i=97; i<=122; i=i+1)
{
    fp=fopen("contact.dll","r");
    fflush(stdin);
    found=0;
    while(fread(&list,sizeof(list),1,fp)==1)
    {
        if(list.name[0]==i || list.name[0]==i-32)

```

```

        {
            printf("\nName\t: %s\nPhone\t: %ld\nAddress\t:
%s\nEmail\t: %s\n",list.name,
                list.ph,list.add,list.email);
            found++;
        }
    }
    if(found!=0)
    {

printf("=====
===== [%c]-(%d)\n\n",i-32,found);
        getch();
    }
    fclose(fp);
}
break;
/* *****search
contacts***** */
case 3:
    system("cls");
    do
    {
        found=0;
        printf("\n\n\t...:CONTACT
SEARCH\n\t===== \n\t...:Name of
contact to search: ");
        fflush(stdin);
        scanf("%[^\\n",&query);
        l=strlen(query);

```

```

fp=fopen("contact.dll","r");
system("cls");
printf("\n\n...:Search result for '%s'
\n=====
\n",query);
while(fread(&list,sizeof(list),1,fp)==1)
{
    for(i=0; i<=l; i++)
        name[i]=list.name[i];
    name[l]='\0';
    if(stricmp(name,query)==0)
    {
        printf("\n...:Name\t: %s\n...:Phone\t: %ld\n...:Address\t:
%s\n...:Email\t: %s\n",list.name,list.ph,list.add,list.email);
        found++;
        if (found%4==0)
        {
            printf("...:Press any key to continue...");
            getch();
        }
    }
}
if(found==0)
    printf("\n...:No match found!");
else
    printf("\n...:%d match(s) found!",found);
fclose(fp);
printf("\n ...:Try again?\n\n\t[1] Yes\t\t[0] No\n\t");
scanf("%d",&ch);
}

```

```

while(ch==1);
break;
/* *****edit
contacts******/
case 4:
    system("cls");
    fp=fopen("contact.dll","r");
    ft=fopen("temp.dat","w");
    fflush(stdin);
    printf("...:Edit
contact\n=====\\n\\n\\t...:Enter the
name of contact to edit:");
    scanf("%[^\\n]",name);
    while(fread(&list,sizeof(list),1,fp)==1)
    {
        if(stricmp(name,list.name)!=0)
            fwrite(&list,sizeof(list),1,ft);
    }
    fflush(stdin);
    printf("\\n\\n...:Editing '%s'\\n\\n",name);
    printf("...:Name(Use identical):");
    scanf("%[^\\n",&list.name);
    fflush(stdin);
    printf("...:Phone:");
    scanf("%ld",&list.ph);
    fflush(stdin);
    printf("...:address:");
    scanf("%[^\\n",&list.add);
    fflush(stdin);
    printf("...:email address:");

```

```

    gets(list.email);
    printf("\n");
    fwrite(&list,sizeof(list),1,ft);
    fclose(fp);
    fclose(ft);
    remove("contact.dll");
    rename("temp.dat","contact.dll");
    break;
    /* *****delete
contacts***** */
    case 5:
        system("cls");
        fflush(stdin);
        printf("\n\n\t...:DELETE A
CONTACT\n\t===== \n\t...:Enter the name
of contact to delete:");
        scanf("%[^\n]",&name);
        fp=fopen("contact.dll","r");
        ft=fopen("temp.dat","w");
        while(fread(&list,sizeof(list),1,fp)!=0)
            if (strcmp(name,list.name)!=0)
                fwrite(&list,sizeof(list),1,ft);
        fclose(fp);
        fclose(ft);
        remove("contact.dll");
        rename("temp.dat","contact.dll");
        break;
    default:
        printf("Invalid choice");
        break;

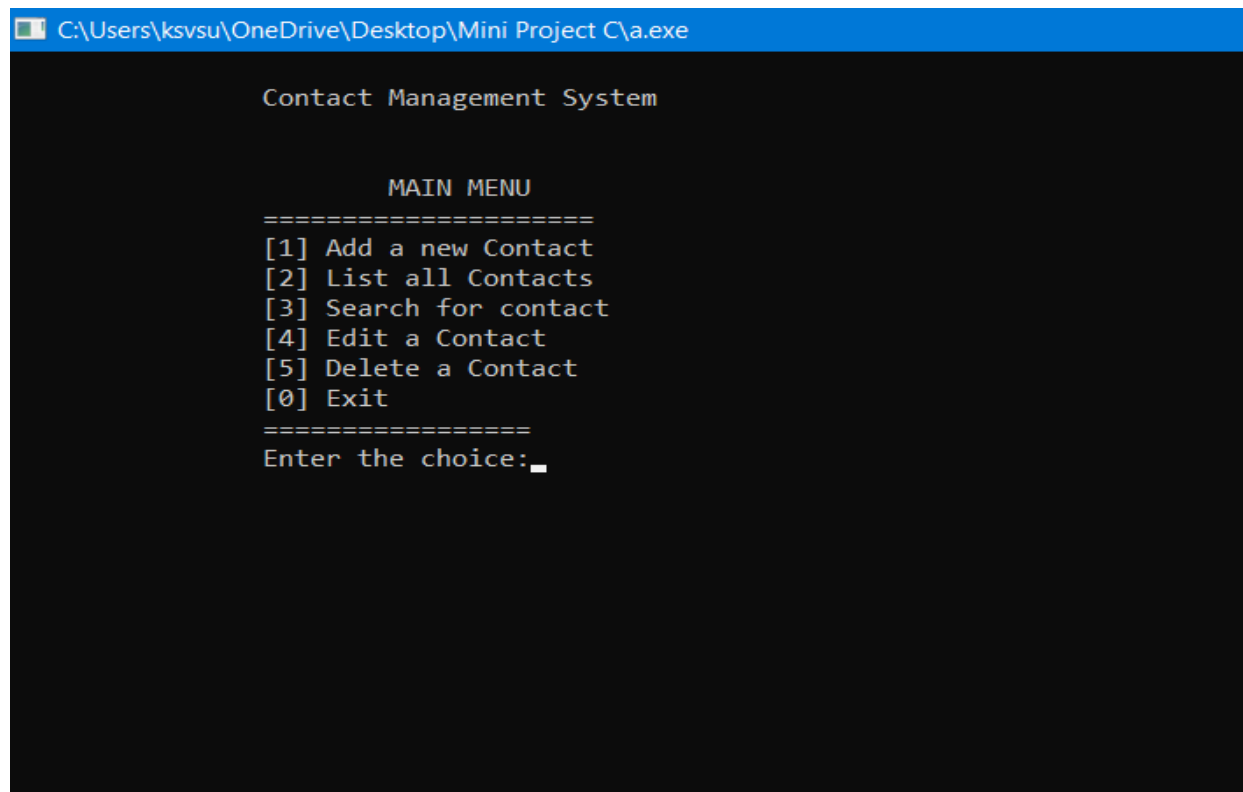
```



```
}  
printf("\n\n\n...:Enter the Choice:\n\n\t[1] Main Menu\t\t[0] Exit\n");  
scanf("%d",&ch);  
switch (ch)  
{  
case 1:  
    goto main;  
case 0:  
    break;  
default:  
    printf("Invalid choice");  
    break;  
}  
return 0;  
}
```

OUTPUT SCREENSHOTS

Main menu



```
C:\Users\ksvsu\OneDrive\Desktop\Mini Project C\a.exe

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
[0] Exit
=====
Enter the choice: _
```

Adding a new contact

```
C:\Users\ksvsu\OneDrive\Desktop\Mini Project C\a.exe
Please enter the following details
Name :Hemant Konduri
Phone:955666101
address:Hyderabad
email address:example@gmail.com

Please enter the following details
Name :_
```

List of all contacts

```
C:\Users\ksvsu\OneDrive\Desktop\Mini Project C\a.exe

=====
LIST OF CONTACTS
=====

Name           Phone No       Address        E-mail ad.
=====
Name      : Hemant
Phone     : 963960853
Address   : Hyderabad
Email     : abcexample@gmail.com

Name      : Hemant Konduri
Phone     : 955666101
Address   : Hyderabad
Email     : example@gmail.com
===== [H] - (2)
```

Searching for a contact

```
C:\Users\ksvsu\OneDrive\Desktop\Mini Project C\a.exe

..::CONTACT SEARCH
=====
..::Name of contact to search:
```

```
C:\Users\ksvsu\OneDrive\Desktop\Mini Project C\a.exe

..::Search result for 'Hemant'
=====
..::Name       : Hemant
..::Phone      : 963960853
..::Address    : Hyderabad
..::Email      : abcexample@gmail.com

..::Name       : Hemant Konduri
..::Phone      : 955666101
..::Address    : Hyderabad
..::Email      : example@gmail.com

..::2 match(s) found!
..::Try again?

      [1] Yes      [0] No
      _
```

Editing a contact

```
C:\Users\ksvsu\OneDrive\Desktop\Mini Project C\a.exe
...:Edit contact
=====

...:Enter the name of contact to edit:Hemant
```

```
C:\Users\ksvsu\OneDrive\Desktop\Mini Project C\a.exe
...:Edit contact
=====

...:Enter the name of contact to edit:Hemant

...:Editing 'Hemant'

...:Name(Use identical):suresh
...:Phone:9667766776
...:address:blahb@gmail.com
...:email address:hyderabad

...:Enter the Choice:

[1] Main Menu      [0] Exit
```

Deleting a contact

```
C:\Users\ksvsu\OneDrive\Desktop\Mini Project C\a.exe

...:DELETE A CONTACT
=====
...:Enter the name of contact to delete:suresh_
```

```
C:\Users\ksvsu\OneDrive\Desktop\Mini Project C\a.exe

...:DELETE A CONTACT
=====
...:Enter the name of contact to delete:suresh

...:Enter the Choice:

          [1] Main Menu          [0] Exit
```

Exiting the application

```
C:\Users\ksvsu\OneDrive\Desktop\Mini Project C\a.exe

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
[0] Exit
=====
Enter the choice:0

Are you sure you want to exit?

...:Enter the Choice:

[1] Main Menu      [0] Exit
```