

A PROJECT REPORT ON

"CONTACT MANAGEMENT"

BY

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INTRODUCTION:

- The program defines a structure called 'contact', which represents contact information, including phone number, name, address, and email.
- It uses file handling to store and retrieve contact information. Contacts are stored in a file called "contact.dll."
- The program represents a menu with options for adding, listing, searching, editing, and deleting contacts.
- You can add new contacts by entering their name, phone number, address, and email.
- You can list all contacts, grouped by the first letter of their names.
- You can search for a contact by entering a name, and the program will display matching results.
- You can edit a contact's information by providing the name of the contact to be deleted.
- The program uses a loop to return to the main menu until you choose to exit.
- The program also uses system-specific functions like 'system("cls")' to clear the screen and 'getch()' for reading a character from console.

CODE:

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
struct contact
long 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()
main:
printf("\n\t **** Welcome to a0 contact Manager ****");
Contact \\ \n\t\t[3] Search for contact \\ \n\t\t[4] Edita Contact \\ \n\t\t[5] Delete a
printf("Enter the choice:");
scanf("%d",&ch);
switch(ch)
case 0:
printf("\n\n\t\tAre you sure u want to exit?");
break;
```

```
case 1:
system("cls");
fp=fopen("contact.lld","a");
for (;;)
{ fflush(stdin);
printf("To exit enter blank space in the name input\nName (Use identical):");
scanf("%[^\n]",&list.name);
if(stricmp(list.name,"")==0 || stricmp(list.name," ")==0)
break;
fflush(stdin);
printf("Phone:");
scanf("%lld",&list.ph);
fflush(stdin);
printf("address:");
scanf("%[^\n]",&list.add);
fflush(stdin);
printf("email address:");
fgets(list.email,30,stdin);
printf("\n");
fwrite(&list,sizeof(list),1,fp);
}
fclose(fp);
break;
case 2:
system("cls");
printf("\n\t\t=====\n\t\t\tLIST
```

```
======\n\n");
for(i=97;i<=122;i=i+1)
fp=fopen("contact.lld","r");
fflush(stdin);
found=0;
while(fread(&list,sizeof(list),1,fp)==1)
{
if(list.name[0]==i \parallel list.name[0]==i-32)
printf("\nName\t: %s\nPhone\t: %lld\nAddress\t: %s\nEmail\t:
%s\n",list.name,list.ph,list.add,list.email);
found++;
if(found!=0)
[\%c]-(\%d)\n\n",i-32,found);
getch();
}
fclose(fp);
}
break;
case 3:
system("cls");
```

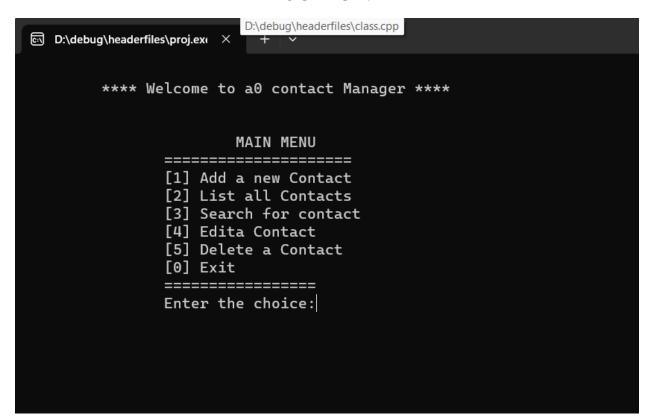
```
do
found=0;
contact to search: ");
fflush(stdin);
scanf("%[^\n]",&query);
l=strlen(query);
fp=fopen("contact.lld","r");
system("cls");
printf("\n\n..::Search result for
'%s'\n======\n",query);
while(fread(&list,sizeof(list),1,fp)==1)
for(i=0;i<=1;i++)
name[i]=list.name[i];
name[1]='\0';
if(stricmp(name,query)==0)
{
printf("\n..::Name\t: %s\n..::Phone\t:
%lld\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\t[1] Yes\t\t[0] No\n\t");
scanf("%d",&ch);
}while(ch==1);
break;
case 4:
system("clss");
fp=fopen("contact.lld","r");
ft=fopen("temp.data","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\::Editing '%s'\n\',name);
printf("..::Name(Use identical):");
scanf("%[^\n]",&list.name);
```

```
fflush(stdin);
printf("..::Phone:");
scanf("%lld",&list.ph);
fflush(stdin);
printf("...:address:");
scanf("%[^\n]",&list.add);
fflush(stdin);
printf("...:email address:");
fgets(list.email,30,stdin);
printf("\n");
fwrite(&list,sizeof(list),1,ft);
fclose(fp);
fclose(ft);
remove("contact.dll");
rename("temp.dat","contact.dll");
break;
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.lld","r");
ft=fopen("temp.data","w");
while(fread(&list,sizeof(list),1,fp)!=0)
if (stricmp(name,list.name)!=0)
fwrite(&list,sizeof(list),1,ft);
```

```
fclose(fp);
fclose(ft);
remove("contact.lld");
rename("temp.data","contact.lld");
break;
default:
printf("Invalid choice");
break;
printf("\n\n\dots: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:



```
D:\debug\headerfiles\proj.ex( × + v
To exit enter blank space in the name input Name (Use identical):Dhoni
Phone:7777777777
address:Ranchi
email address:msd7@gmail.com
To exit enter blank space in the name input Name (Use identical):virat
Phone:1818181818
address:Delhi
email address:vk18@gmail.com
To exit enter blank space in the name input
Name (Use identical):rohit
Phone: 454545454545
address: Mumbai
email address:rs45@gmail.com
To exit enter blank space in the name input
Name (Use identical):
..::Enter the Choice:
         [1] Main Menu
                                      [0] Exit
```