Mini Project Report

Contact Management System

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Contact Management System in C

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❖ Introduction:-

Contact Management System is a simple console application without graphics. It is similar to the contact manager in cell phones. In this project, you can add, view, edit, search and delete contacts. All added and edited records are saved in a file.

You can list contacts by name, phone no., address and email. File handling has been used to record all data. It can very useful in daily life.

❖ Objectives:-

The main objectives of this project are listed below:

Proper management of contacts.

Add, edit and remove contacts.

Can be important in daily life.

Can search contacts.

Simple to use and user friendly.

❖ Algorithm:-

Step 1: Start

Step 2: Accept choices from main menu below

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

==========================

Step 3: If the choice is 1, accept and store name, phone, address , email address. After accepting details choose [1] to go back to Main menu or [0] to exit.

Step 4: If the choice is 2, display the stored data. After displaying details choose [1] to go back to Main menu or [0] to exit.

Step 5: If the choice is 3, search for contact name if match found display the matched data if no match found display no match found and try again. Choose [1]Yes or [0]No to try again .If [0]No is chosen display [1] to go back to Main menu or [0] to exit.

Step 6: If the choice is 4, accept name of contact to be edited. Replace the changed data to that of the previous data. After accepting details choose [1] to go back to Main menu or [0] to exit.

Step 7: If the choice is 5, accept name of the contact to be deleted. After accepting details choose [1] to go back to Main menu or [0] to exit.

Step 8: If the choice is [0]Exit , choose [1] to go back to Main menu or [0] to exit.

Step 9: Stop.

❖ Flowchart:-

❖ Code:-

#include<stdio.h>

#include<conio.h>

#include<string.h>

#include<process.h>

#include<stdlib.h>

#include<dos.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;

//Start of main//

Int main()

{

Main:

System(“cls”); /\* \*\*\*\*\*Main menu \*\*\*\*\*\*\*\* \*/

System(“color 2f”);

Printf(“\n\t \*\* Welcome to Contact Management System \*\*”);

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[0] Exit\n\t\t=================\n\t\t”);

Printf(“Enter Your Choice: “);

Scanf(“%d”,&ch);

Switch(ch)

{

//This case is used for Exit//

Case 0:

Printf(“\n\n\t\tAre You Sure To Exit?”);

Break;

/\* \*\*\*\*\*\*\*\*Add new contacts\*\*\*\*\* \*/

//This case is used for Add a new Contact//

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(“%[^\n]”,&list.name);

If(stricmp(list.name,””)==0 || stricmp(list.name,” “)==0)

Break;

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,fp);

}

Fclose(fp);

Break;

/\* \*\*\*\*\*\*\*\*list of contacts\*\*\*\*\*\*\*\* \*/

//This case is used for List all Contact//

Case 2:

System(“cls”);

Printf(“\n\t\t================================\n\t\t\tLIST OF CONTACTS\n\t\t================================\n\nName\t\tPhone No\t Address\t\tE-mail\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\*\*\*\*\*\*\* \*/

//This case is used search for Contact //

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\*\*\*\*\*\*\*\*\*/

//This case is used for Edit a Contact//

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\*\*\*\*\*\*\*/

//This case is used for Delete a Contact//

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 (stricmp(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;

}//end of main