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#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;

int main()
{
main:

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

    printf("\n\t **** Welcome to Contact Management System ****");

    printf("\n\n\n\t\t\tMAIN MENU\n\t\t\t=====
\n\t\t\t[1] Add a new
Contact\n\t\t\t[2] List all Contacts\n\t\t\t[3] Search for contact\n\t\t\t[4] Edit a
Contact\n\t\t\t[5] Delete a Contact\n\t\t\t[0] Exit\n\t\t\t=====
\n\t\t\t");

    printf("Enter the choice:");

    scanf("%d",&ch);

    switch(ch)
    {

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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("%[^\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);

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    }

    fclose(fp);

    break;

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

case 2:

    system("cls");

    printf("\n\t\t===== \n\t\t\tLIST OF
CONTACTS\n\t\t\t===== \n\nName\t\tPhone No\t
Address\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("=====

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[%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\t...: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)

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        {
            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***** */

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case 4:

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system("cls");

fp=fopen("contact.dll","r");

ft=fopen("temp.dat","w");

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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);

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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;

}

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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;
}
```