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#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<stdlib.h>
#include<windows.h>
struct person
{
    char name[35];
    char address[50];
    char father_name[35];
    char mother_name[30];
    long int mble_no;
    char sex[8];
    char mail[100];
    char citision_no[20];

};
void menu();
void got();
void start();
void back();
void addrecord();
void listrecord();
void modifyrecord();
void deleterecord();
void searchrecord();
int main()
{
    system("color 5f");
    start();
    return 0;
}
void back()
{
    start();
}
void start()
{
    menu();
}
void menu()
{
    system("cls");
    printf("\t\t*****WELCOME TO PHONEBOOK*****");

    printf("\n\n\t\t\t MENU\t\t\t\n\n");
    printf("\t1.Add New \t2.List \t3.Exit \n\t4.Modify \t5.Search\t6.Delete");

    switch(getch())
    {

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    case '1':

        addrecord();
        break;
    case '2': listrecord();
        break;
    case '3': exit(0);
        break;
    case '4': modifyrecord();
        break;
    case '5': searchrecord();
        break;
    case '6': deleterecord();
        break;
    default:

        system("cls");
        printf("\nEnter 1 to 6 only");
        printf("\n Enter any key");
        getch();

menu();
}
}

void addrecord()
{
    system("cls");
    FILE *f;
    struct person p;
    f=fopen("project","ab+");
    printf("\n Enter name: ");
    got(p.name);
    printf("\nEnter the address: ");
    got(p.address);
    printf("\nEnter father name: ");
    got(p.father_name);
    printf("\nEnter mother name: ");
    got(p.mother_name);
    printf("\nEnter phone no.:");
    scanf("%ld",&p.mble_no);
    printf("Enter sex:");
    got(p.sex);
    printf("\nEnter e-mail:");
    got(p.mail);
    printf("\nEnter citizen no:");
    got(p.citision_no);
    fwrite(&p,sizeof(p),1,f);

    fflush(stdin);
    printf("\nrecord saved");
}

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fclose(f);

    printf("\n\nEnter any key");

        getch();
        system("cls");
        menu();
}
void listrecord()
{
    struct person p;
    FILE *f;
    f=fopen("project","rb");
    if(f==NULL)
    {
        printf("\nfile opening error in listing :");

        exit(1);
    }
    while(fread(&p,sizeof(p),1,f)==1)
    {
        printf("\n\n\n YOUR RECORD IS\n\n ");
        printf("\nName=%s\nAdress=%s\nFather name=%s\nMother name=%s\nMobile
no=%ld\nSex=%s\nE-mail=%s\nCitizen
no=%s",p.name,p.address,p.father_name,p.mother_name,p.mble_no,p.sex,p.mail,p.citisi
on_no);

        getch();
        system("cls");
    }
    fclose(f);
    printf("\n Enter any key");
    getch();
    system("cls");
    menu();
}
void searchrecord()
{
    struct person p;
    FILE *f;
    char name[100];

    f=fopen("project","rb");
    if(f==NULL)
    {
        printf("\n error in opening\a\a\a\a");
        exit(1);
    }
    printf("\nEnter name of person to search\n");

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got(name);
while(fread(&p,sizeof(p),1,f)==1)
{
    if(strcmp(p.name,name)==0)
    {
        printf("\n\tDetail Information About %s",name);
        printf("\nName:%s\naddress:%s\nFather name:%s\nMother name:%s\nMobile
no:%ld\nsex:%s\nE-mail:%s\nCitision
no:%s",p.name,p.address,p.father_name,p.mother_name,p.mble_no,p.sex,p.mail,p.citisi
on_no);
    }
    else
        printf("file not found");
}
fclose(f);
printf("\n Enter any key");

    getch();
    system("cls");
menu();
}
void deleterecord()
{
    struct person p;
    FILE *f,*ft;
    int flag;
    char name[100];
    f=fopen("project","rb");
    if(f==NULL)
    {

        printf("CONTACT'S DATA NOT ADDED YET.");

    }
    else
    {
        ft=fopen("temp","wb+");
        if(ft==NULL)

            printf("file opaning error");
        else

        {

            printf("Enter CONTACT'S NAME:");
            got(name);

            fflush(stdin);

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        while(fread(&p,sizeof(p),1,f)==1)
        {
            if(strcmp(p.name,name)!=0)
                fwrite(&p,sizeof(p),1,ft);
            if(strcmp(p.name,name)==0)
                flag=1;
        }
        fclose(f);
        fclose(ft);
        if(flag!=1)
        {
            printf("NO CONTACT'S RECORD TO DELETE.");
            remove("temp.txt");
        }
        else
        {
            remove("project");
            rename("temp.txt","project");
            printf("RECORD DELETED SUCCESSFULLY.");
        }
    }
}
printf("\n Enter any key");

    getch();
    system("cls");
menu();
}

void modifyrecord()
{
    int c;
    FILE *f;
    int flag=0;
    struct person p,s;
    char name[50];
    f=fopen("project","rb+");
    if(f==NULL)
    {
        printf("CONTACT'S DATA NOT ADDED YET.");
        exit(1);
    }
    else
    {
        system("cls");
        printf("\nEnter CONTACT'S NAME TO MODIFY:\n");
    }
}

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got(name);
while(fread(&p,sizeof(p),1,f)==1)
{
    if(strcmp(name,p.name)==0)
    {

        printf("\n Enter name:");
        got(s.name);
        printf("\nEnter the address:");
        got(s.address);
        printf("\nEnter father name:");
        got(s.father_name);
        printf("\nEnter mother name:");
        got(s.mother_name);
        printf("\nEnter phone no:");
        scanf("%ld",&s.mble_no);
        printf("\nEnter sex:");
        got(s.sex);
        printf("\nEnter e-mail:");
        got(s.mail);
        printf("\nEnter citizen no\n");
        got(s.citision_no);
        fseek(f,-sizeof(p),SEEK_CUR);
        fwrite(&s,sizeof(p),1,f);
        flag=1;
        break;

    }

    fflush(stdin);

}
if(flag==1)
{
    printf("\n your data id modified");

}
else
{
    printf(" \n data is not found");

}
fclose(f);
}
printf("\n Enter any key");
getch();

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        system("cls");
        menu();
    }
    void got(char *name)
    {
        int i=0,j;
        char c,ch;
        do
        {
            c=getch();
            if(c!=8&& c!=13)
            {
                *(name+i)=c;
                putchar(c);
                i++;
            }
            if(c==8)
            {
                if(i>0)
                {
                    i--;
                }
                // printf("h");
                system("cls");
                for(j=0;j<i;j++)
                {
                    ch=*(name+j);
                    putchar(ch);
                }
            }
        }
        while(c!=13);
        *(name+i)='\0';
    }
}

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