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#include<stdio.h>
#include<conio.h>
#include<ctype.h>
#include<windows.h>
#include<stdlib.h>
struct subscriber
{
char phonenumber[20];
char name[50];
float amount;
}s;
void addrecords();
void listrecords();
void modifyrecords();
void deleterecords();
void searchrecords();
void payment();
char get;
int main()
{
    int password;
    int phonenumber;
    char choice;

    system("cls");

printf("\n\n\n\n\n\n\n\n\n\n*****\n\n\n\n\n\n\n\n\n\n*****");
    printf("\n\t\t\t-----WELCOME TO THE TELECOM BILLING MANAGEMENT SYSTEM---");

printf("\n\t\t\t*****");
    Sleep(2000);
    getch();
    system("cls");
    while (1)
    {
        system("cls");
        printf("\n Enter\n A : for adding new records.\n L : for list of
records");
        printf("\n M : for modifying records.\n P : for payment");
        printf("\n S : for searching records.");
        printf("\n D : for deleting records.\n E : for exit\n");
        choice=getche();
        choice=toupper(choice);
        switch(choice)
        {
            case 'P':
                payment();break;

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        case 'A':
            addrecords();break;
        case 'L':
            listrecords();break;
        case 'M':
            modifyrecords();break;
        case 'S':
            searchrecords();break;
        case 'D':
            deleterecords();break;
        case 'E':
            system("cls");
            printf("\n\n\t\t\t\t\tTHANK YOU");
            printf("\n\n\n\n\n:\n\t\t\t\t\tFOR USING OUR SERVICE");
            Sleep(2000);
            exit(0);
            break;
        default:
            system("cls");
            printf("Incorrect Input");
            printf("\nAny key to continue");
            getch();
    }
}

void addrecords()
{
    FILE *f;
    char test;
    f=fopen("c:/file.ojs","ab+");
    if(f==0)
    {
        f=fopen("c:/file.ojs","wb+");
        system("cls");
        printf("please wait while we configure your computer");
        printf("\npress any key to continue");
        getch();
    }
    while(1)
    {
        system("cls");
        printf("\n Enter phone number:");
        scanf("%s",&s.phonenumber);
        printf("\n Enter name:");
        fflush(stdin);
        scanf("%[^\n]",&s.name);
        printf("\n Enter amount:");
        scanf("%f",&s.amount);
        fwrite(&s,sizeof(s),1,f);
        fflush(stdin);
        system("cls");
    }
}

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        printf("1 record successfully added");
        printf("\n Press esc key to exit, any other key to add other
record:");
        test=getche();
        if(test==27)
            break;
    }
    fclose(f);
}
void listrecords()
{
    FILE *f;
    int i;
    if((f=fopen("c:/file.ojs","rb"))==NULL)
        exit(0);
    system("cls");
    printf("Phone Number\t\tUser Name\t\tAmount\n");
    for(i=0;i<79;i++)
        printf("-");
    while(fread(&s,sizeof(s),1,f)==1)
    {
        printf("\n%-10s\t\t%-20s\t\tRs. %.2f
/-",s.phonenumber,s.name,s.amount);
    }
    printf("\n");
    for(i=0;i<79;i++)
        printf("-");

fclose(f);
getch();
}
void deleterecords()
{
    FILE *f,*t;
    int i=1;
    char phonenumber[20];
    if((t=fopen("c:/temp.ojs","w+"))==NULL)
        exit(0);
    if((f=fopen("c:/file.ojs","rb"))==NULL)
        exit(0);
    system("cls");
    printf("Enter the phone number to be deleted from the Database");
    fflush(stdin);
    scanf("%[^\\n]",phonenumber);
    while(fread(&s,sizeof(s),1,f)==1)
    {
        if(strcmp(s.phonenumber,phonenumber)==0)
        {
            i=0;
            continue;

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        }
        else
            fwrite(&s,sizeof(s),1,t);
    }
    if(i==1)
    {
        system("cls");
        printf("Phone number \"%s\" not found",phonenumber);
        remove("c:/file.ojs");
        rename("c:/temp.ojs","c:/file.ojs");
        getch();
        fclose(f);
        fclose(t);
        main();
    }
    remove("c:/file.ojs");
    rename("c:/temp.ojs","c:/file.ojs");
    system("cls");
    printf("The Number %s Successfully Deleted!!!!",phonenumber);
    fclose(f);
    fclose(t);
    getch();
}
void searchrecords()
{
    FILE *f;
    char phonenumber[20];
    int flag=1;
    f=fopen("c:/file.ojs","rb+");
    if(f==0)
        exit(0);
    fflush(stdin);
    system("cls");
    printf("Enter Phone Number to search in our database");
    scanf("%s", phonenumber);
    while(fread(&s,sizeof(s),1,f)==1)
    {
        if(strcmp(s.phonenumber,phonenumber)==0)
        {
            system("cls");
            printf(" Record Found ");
            printf("\n\nPhonenumber: %s\nName: %s\nAmount:
Rs.%0.2f\n",s.phonenumber,s.name,s.amount);
            flag=0;
            break;
        }
        else if(flag==1)
        {
            system("cls");
            printf("Requested Phone Number Not found in our database");
        }
    }
    getch();
}

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        fclose(f);
    }
    void modifyrecords()
    {
        FILE *f;
        char phonenumber[20];
        long int size=sizeof(s);
        if((f=fopen("c:/file.ojs","rb+"))==NULL)
            exit(0);
        system("cls");
        printf("Enter phone number of the subscriber to modify:");
        scanf("%[^\\n]",phonenumber);
        fflush(stdin);
        while(fread(&s,sizeof(s),1,f)==1)
        {
            if(strcmp(s.phonenumber,phonenumber)==0)
            {
                system("cls");
                printf("\\n Enter phone number:");
                scanf("%s",&s.phonenumber);
                printf("\\n Enter name: ");
                fflush(stdin);
                scanf("%[^\\n]",&s.name);
                printf("\\n Enter amount: ");
                scanf("%f",&s.amount);
                fseek(f,-size,SEEK_CUR);
                fwrite(&s,sizeof(s),1,f);
                break;
            }
        }
        fclose(f);
    }
    void payment()
    {
        FILE *f;
        char phonenumber[20];
        long int size=sizeof(s);
        float amt;
        int i;
        if((f=fopen("c:/file.ojs","rb+"))==NULL)
            exit(0);
        system("cls");
        printf("Enter phone number of the subscriber for payment");
        scanf("%[^\\n]",phonenumber);
        fflush(stdin);
        while(fread(&s,sizeof(s),1,f)==1)
        {
            if(strcmp(s.phonenumber,phonenumber)==0)
            {
                system("cls");

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        printf("\n Phone No.: %s",s.phonenumber);
        printf("\n Name: %s",s.name);
        printf("\n Current amount: %F",s.amount);
        printf("\n");
        for(i=0;i<79;i++)
            printf("-");
        printf("\n\nEnter amount of payment :");
        fflush(stdin);
        scanf(" %F",&amt);
        s.amount=s.amount-amt;
        fseek(f,-size,SEEK_CUR);
        fwrite(&s,sizeof(s),1,f);
        break;
    }
}
system("cls");
printf("THANK YOU %s FOR YOUR TIMELY PAYMENTS",s.name);
getch();
fclose(f);
}

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