

Course: CSE115L

Section:3

Project Title: Phone Book

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***Objectives:***

* Adding new records, listing them, modifying them and updating, search for contacts saved, and deleting the phonebook records are the basic functions which make up the main menu of this Phonebook application.
* Personal information such as Name, phone number ,email and address are asked while adding a recode into the phonebook. After the initial addition of the of the contacts these records are then be listed, searched for and removed if they are requires change.
* This project is one of the best C Programming language and it’s a console application without graphics. In this C Programming languages project the user can easily operate and can keep their mobile number record.

***Challenges:***

* **Add phone record**: This features adds a new phone record to the file. It asks for the phone number and name of the person whose record is to be created. Upon successful creation of a new phone record, the phonebook management system program displays the message – “Phone details successfully stored.”
* **Search phone records**: This function is very simple, and with it users can search for a phone record either by providing the phone number or by the name of a particular person whose record has already been added in the file.
* **Show phone records**: In phonebook management system, this feature allows user to list all the phone records stored in file. The information displayed here are phone record number, phone number and the person’s name.
* **Delete phone record**: This feature deletes added phone record from the file. The user needs to provided the phone number to be deleted from phonebook management system. Upon successful deletion, it displays the message – “Record deleted!”. If the phone number provided is not found in file, the program displays the message – “Record doesn’t exist!

***Used function in the program:***

* ***void MENU()*** – This function is used to display the main menu.
* ***Void passward()*** - This function is used to verify user name and password if it’s valid and log in. If the password and user name incorrect it asks the user for input again.
* ***void ADDENTRY()–*** It adds a new Phonebook record.
* ***void DISPLAY()–*** This function is used to view list of added records in file.
* ***Void REMOVE()–*** It remove record one by one from file.
* ***void SEARCH\_by\_FIRSTNAME()–*** It searches for added record by first name.
* ***void SEARCH\_by\_LASTNAME()-*** It searches for added record by last name.
* ***Void SEARCH\_by\_MOBILENUMBER()*** - It searches for added record by last mobile number.
* ***void DELETEALLDATA()*** - It delete all record from file.

*Code:*

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

#include<windows.h>

#include<conio.h>

struct login

{

char username[30];

char password [30];

}l;

struct content

{

char FirstName[30];

char LastName[30];

char MobileNumber[30];

}c;

void PASSWORD();

void MENU();

void ADDENTRY();

void DISPLAY();

void SEARCH\_by\_FIRSTNAME(char []);

void SEARCH\_by\_LASTNAME(char []);

void SEARCH\_by\_MOBILENUMBER(char []);

void REMOVE(FILE \*fp);

void DELETEALLDATA();

int main()

{

PASSWORD();

LOADING();

MENU();

return 0;

}

void LOADING()

{

int i;

//system("color f0");

printf("\n\n\n\n\n\n\n\n\t\t\t\t");

Sleep(500);

printf("L ");

Sleep(500);

printf("O ");

Sleep(500);

printf("A ");

Sleep(500);

printf("D ");

Sleep(500);

printf("I ");

Sleep(500);

printf("N ");

Sleep(500);

printf("G ");

for(i=1;i<=5;i++)

{

Sleep(500);

printf(".");

}

}

void PASSWORD()

{

int i;

l1:

printf("\n\n\n\n\t\t\tENTER THE USER NAME:");

scanf("%s",l.username);

if(strcmp(l.username,"azi")==0)

{

goto l2;

}

else

{

printf("INCORRENT USER NAME!!!");

goto l1;

}

l2:

printf("\n\t\t\tENTER PASSWARD:");

for(i=0;i<4;i++)

{

l.password[i]=getch();

printf("\*");

}

if(memcmp(l.password,"azi",3)==0)

{

goto end;

}

else

{

printf("\nINCORRENT PASSWARD!!!");

goto l2;

}

end:

exit;

}

void MENU()

{

char filename[100];

char str[100];

FILE \*fp1,\*fp2;

int del\_line\_no;

int line\_no=0;

int option;

do

{

system("cls");

printf("\n\t\t\t\t\t\*\*\*\*WELCOME TO\*\*\*\*");

printf("\n\t\t\t\t\tC PROGRAM PHONEBOOK");

printf("\n\t\t\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

printf("\n\t\t\t\tWHAT OPTION DO YOU WANT???????");

printf("\n\n\t\t\t\t>>PRESS 1 TO ENTRY DATA");

printf("\n\n\n\t\t\t\t>>PRESS 2 TO DISPLAY DATA");

printf("\n\n\n\t\t\t\t>>PRESS 3 TO SEARCH BY FITSTNAME DATA");

printf("\n\n\n\t\t\t\t>>PRESS 4 TO SEARCH BY LASTNAME DATA");

printf("\n\n\n\t\t\t\t>>PRESS 5 TO SEARCH BY MOBILENUMBER DATA");

printf("\n\n\n\t\t\t\t>>PRESS 6 TO REMOVE DATA");

printf("\n\n\n\t\t\t\t>>PRESS 7 TO DELETE ALL DATA");

printf("\n\n\n\t\t\t\t>>PRESS 8 TO EXIT");

printf("\n\t\t\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

printf("\n\n\t\t\t\tCHOOSE OPTION:");

scanf("%d",&option);

if(option>=1 && option<=8)

{

switch(option)

{

case 1:

system("cls");

ADDENTRY();

break;

case 2:

system("cls");

DISPLAY();

break;

case 3:

system("cls");

printf("\nENTER FIRST\_NAME:");

char name1 [10];

fflush(stdin);

gets(name1);

strlwr(name1);

SEARCH\_by\_FIRSTNAME(name1);

break;

case 4:

system("cls");

printf("\nENTER LAST\_NAME:");

char name2[10];

fflush(stdin);

gets(name2);

strlwr(name2);

SEARCH\_by\_LASTNAME(name2);

break;

case 5:

system("cls");

printf("\nENTER MOBILE\_NUMBER:");

char number1[10];

fflush(stdin);

gets(number1);

SEARCH\_by\_MOBILENUMBER(number1);

break;

case 6:

system("cls");

printf("ENTER THE FILE:");

scanf("%s",filename);

fp1=fopen(filename,"r");

printf("\nCONTENT OF FILE BEFORE DELETE:\n");

REMOVE(fp1);

rewind(fp1);

fp2=fopen("P.txt","w");

printf("\nENTER THE no.OF THE LINE TO BE DELETE:");

scanf("%d",&del\_line\_no);

while(fgets(str,99,fp1)!=NULL)

{

line\_no++;

if(line\_no!=del\_line\_no)

{

fputs(str,fp2);

}

}

fclose(fp1);

fclose(fp2);

remove(filename);

rename("P.txt", filename);

fp1=fopen(filename,"r");

printf("\nCONTENT OF FILE AFTER REMOVE:\n");

REMOVE(fp1);

fclose(fp1);

break;

case 7:

system("cls");

DELETEALLDATA();

break;

case 8:

exit(0);

break;

}

}

else

printf("\t\t\t\tINVALID PRESS!!!!!!");

printf("\n\n\n\t\t\t\tDO YOU WANT TO CONTINUE y/n");

option=getch();

}

while(option=='y');

}

void ADDENTRY()

{

FILE \*fp;

printf("\n\n\n\tENTER FIRST\_NAME:");

scanf("%s",c.FirstName);

printf("\n\n\n\tENTER LAST\_NAME:");

scanf("%s",c.LastName);

printf("\n\n\n\tENTER MOBILE\_NUMBER:");

scanf("%s",c.MobileNumber);

fp=fopen("PHONE\_BOOK.txt","a");

fprintf(fp,"%s %s %s\n",c.FirstName,c.LastName,c.MobileNumber);

fclose(fp);

}

void DISPLAY()

{

FILE \*fp;

fp=fopen("PHONE\_BOOK.txt","r");

if(fp==NULL)

{

printf("\nFILE NOT FOUND");

return;

}

while(fscanf(fp,"%s %s %s ",c.FirstName,c.LastName,c.MobileNumber)!=EOF)

{

printf("\n\n\n\tFIRST NAME:%s",c.FirstName);

printf("\n\n\n\tLAST\_NAME:%s",c.LastName);

printf("\n\n\n\tMOBILE\_NUMBER:%s",c.MobileNumber);

}

fclose(fp);

}

void SEARCH\_by\_FIRSTNAME(char name[])

{

FILE \*fp;

int r;

fp=fopen("PHONE\_BOOK.txt","r");

if(fp==NULL)

{

printf("\nFILE NOT FOuND");

return;

}

while(fscanf(fp,"%s %s %s",c.FirstName,c.LastName,c.MobileNumber)!=EOF)

{

strlwr(c.FirstName);

r=strcmp(c.FirstName,name);

if(r==0)

{

printf("\n\n\n\tFIRST\_NAME:%s",c.FirstName);

printf("\n\n\n\tLAST\_NAME:%s",c.LastName);

printf("\n\n\n\tMOBILE\_NUMBER:%s",c.MobileNumber);

}

}

fclose(fp);

}

void SEARCH\_by\_LASTNAME(char name[])

{

FILE \*fp;

int r;

fp=fopen("PHONE\_BOOK.txt","r");

if(fp==0)

{

printf("\nFILE NOT FOUND");

return;

}

while(fscanf(fp,"%s %s %s",c.FirstName,c.LastName,c.MobileNumber)!=EOF)

{

strlwr(c.LastName);

r=strcmp(c.LastName,name);

if(r==0)

{

printf("\n\n\n\tFIRST\_NAME:%s",c.FirstName);

printf("\n\n\n\tLAST\_NAME:%s",c.LastName);

printf("\n\n\n\tMOBILE\_NUMBER:%s",c.MobileNumber);

}

}

fclose(fp);

}

void SEARCH\_by\_MOBILENUMBER(char number [])

{

FILE \*fp;

int r;

fp=fopen("PHONE\_BOOK.txt","r");

if(fp==NULL)

{

printf("\nFILE NOT FIND");

return;

}

while(fscanf(fp,"%s %s %s",c.FirstName,c.LastName,c.MobileNumber)!=EOF)

{

r=strcmp(c.MobileNumber,number);

if(r==0)

{

printf("\n\n\n\tFIRST\_NAME:%s",c.FirstName);

printf("\n\n\n\tLAST\_NAME:%s",c.LastName);

printf("\n\n\n\tMOBILE\_NUMBER:%s",c.MobileNumber);

}

}

fclose(fp);

}

void REMOVE(FILE \*fp)

{

char ch;

while((ch =fgetc(fp))!=EOF)

{

printf("%c",ch);

}

}

void DELETEALLDATA()

{

FILE \*fp;

fp=fopen("PHONE\_BOOK.txt","r");

fp=fopen("PHONE\_BOOK.txt","w");

if(fp==NULL)

{

printf("\nFILE NOT FIND");

return;

}

while(fscanf(fp,"%s %s %s",c.FirstName,c.LastName,c.MobileNumber)!=EOF)

{

printf("\n\n\n\tFIRST NAME:%s",c.FirstName);

printf("\n\n\n\tLAST\_NAME:%s",c.LastName);

printf("\n\n\n\tMOBILE\_NUMBER:%s",c.MobileNumber);

}

fclose(fp);

}