Cyber management system

#include<stdio.h>

#include<conio.h>

#include<string.h>

#include<stdlib.h>

#include<time.h>

#include<math.h>

void heading();

void main\_heading();

void menu();

void user\_menu();

void insert();

void display();

void search();

void delete();

void arrival\_time();

void user\_login();

void login\_user();

void main()

{

char name[30];

int id;

int ch;

char username[20];

char password[20];

system("CLS");

system("color 8F");

heading();

printf("\n\n\t\t\t\t\t1) Login as Admin");

printf("\n\t\t\t\t\t2) Login as user");

printf("\n\n\t\t\t\t\tEnter your choice (1/2) : ");

scanf("%d",&ch);

system("CLS");

switch(ch)

{

case 1:system("CLS");

heading();

printf("\n\n\t\t\t\t\t\t|| ADMIN LOGIN ||\t\t\t\t");

printf("\n\n\n\t\t\t\t\tEnter your Username :");

scanf("%s",&username);

printf("\t\t\t\t\tEnter your Password :");

scanf("%s",&password);

if(strcmp(username, "admin")==0)

{

if(strcmp(password ,"cyber123")==0)

{

system("CLS");

main\_heading();

printf("\n\n\t\t\t\t\tWELCOME ADMIN!!! LOGIN SUCCESSFULL");

menu();

}

else

{

printf("\t\t\t\t\tIncorrect Password !!! Failed to Login");

}

}

else

{

printf("\t\t\t\t\tUsername is invalid !!! Failed to Login");

}

break;

case 2:system("CLS");

heading();

int cho;

printf("\n\n\t\t\t\t\t1.Login ");

printf("\n\t\t\t\t\t2.New user? sign up ");

printf("\n\t\t\t\t\t\nEnter your Choice : ");

scanf("%d",&cho);

switch(cho)

{

case 1: printf("\n\n\t\t\t\t\t\t|| USER LOGIN ||\t\t\t\t");

main\_heading();

login\_user();

break;

case 2: system("CLS");

main\_heading();

user\_login();

break;

default: printf("\n\t\t\t\t\tInvalid Choice!!!");

break;

}

//default:printf("\n\n\t\t\t\t\tInvalid Choice!!!");

// break;

}

}

void heading()

{

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

printf("\n\t\t\t\t| WELCOME TO CYBER MANAGEMENT SYSTEM |\t\t");

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

}

void main\_heading()

{

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

printf("\n\t\t\t\t| CYBER MANAGEMENT SYSTEM |\t\t");

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

}

void menu()

{

int choice;

printf("\n\n\n\t\t\t\t\t\t |<--MENU-->|");

printf("\n\n\t\t\t\t\t\t1.Insert Record");

printf("\n\t\t\t\t\t\t2.Display Record");

printf("\n\t\t\t\t\t\t3.Search Record");

printf("\n\t\t\t\t\t\t4.Delete Record");

printf("\n\t\t\t\t\t\t5.Exit");

printf("\n\n\t\t\t\t\t\tEnter your choice :");

scanf("%d",&choice);

switch(choice)

{

case 1: system("CLS");

insert();

break;

case 2: system("CLS");

main\_heading();

display();

printf("\n\n\t\t\t\t\tPress any key to continue ");

fflush(stdin);

getchar();

menu();

case 3: system("CLS");

search();

printf("\n\n\t\t\t\t\tPress any key to continue ");

fflush(stdin);

getchar();

menu();

break;

case 4: system("CLS");

delete();

break;

case 5: system("CLS");

exit(0);

break;

default: printf("INVALID CHOICE !!!");

}

}

void user\_menu()

{

int choice;

printf("\n\n\n\t\t\t\t\t\t |<--MENU-->|");

printf("\n\n\t\t\t\t\t\t1.View Your Record");

printf("\n\t\t\t\t\t\t2.Exit");

printf("\n\n\t\t\t\t\t\tEnter your choice :");

scanf("%d",&choice);

switch(choice)

{

case 1: system("CLS");

search();

break;

case 2: system("CLS");

exit(0);

break;

}

}

void insert()

{

time\_t mytime;

struct tm\* current\_time;

mytime = time(NULL);

current\_time = localtime(&mytime);

FILE \*fp;

char name[30];

int id;

char choice='y';

system("CLS");

fp = fopen("cyber.txt","ab+");

if(fp==NULL)

{

printf("\n\t\t\t\t\tERROR OPENING FILE !!!");

return;

}

fflush(stdin);

while(choice=='y')

{

main\_heading();

printf("\n\n\t\t\t\t\t\tENTER NEW USER DATA :");

printf("\n\n\t\t\t\t\tEnter User\_ID : ");

scanf("%d",&id);

fflush(stdin);

printf("\n\n\t\t\t\t\tEnter name of the user : ");

scanf("%s",&name);

fflush(stdin);

fprintf(fp,"%d %s\t",id,name);

fprintf(fp,"%02d/%02d/%d %02d:%02d",current\_time->tm\_mday,current\_time->tm\_mon+1,current\_time->tm\_year+1900,current\_time->tm\_hour,current\_time->tm\_min);

fprintf(fp,"\n");

arrival\_time();

printf("\n\n\t\t\t\t USER RECORD INSERTED SUCCESSFULLY !!!");

printf("\n\n\t\t\t\t Want to add another record ? (y/n) : ");

scanf("%c",&choice);

fflush(stdin);

system("CLS");

fflush(stdin);

}

fclose(fp);

printf("\n\n\t\t\t\t\t Press any key to continue ");

getchar();

menu();

}

void display()

{

int duration,tothr;

int totmin;

time\_t mytime;

struct tm\* current\_time;

mytime = time(NULL);

current\_time = localtime(&mytime);

FILE \*fp;

fp = fopen("cyber.txt","rb");

if(fp==NULL)

{

printf("\n\t\t\t\t\tERROR OPENING FILE !!!");

return;

}

char name[30];

int id;

int mday,mmon,myear,mmin,mhour;

printf("\n\n\t\t\t\t\tUSER DETAILS ARE AS FOLLOWS :");

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

printf("\n\n\t\t\t User\_ID\t\tName of User\t\tDate\t\tTime\t Duration");

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

while(fscanf(fp,"%d %s %02d/%02d/%d %02d:%02d",&id,&name,&mday,&mmon,&myear,&mhour,&mmin)!=EOF)

{

printf("\n\n\t\t\t %d \t\t\t%s \t\t\t%02d/%02d/%d \t%02d:%02d",id,name,mday,mmon,myear,mhour,mmin);

tothr =(((current\_time->tm\_hour\*60)+(current\_time->tm\_min))-((mhour\*60)+mmin));

duration = tothr/60;

totmin = tothr-(duration\*60);

printf("\t %dHr:%dMin",duration,totmin);

}

fclose(fp);

}

void search()

{

system("CLS");

main\_heading();

int my\_id,flag=0;

int duration,tothr,totmin;

time\_t mytime;

struct tm\* current\_time;

mytime = time(NULL);

current\_time = localtime(&mytime);

FILE \*fp;

char name[30];

int id;

int mday,mmon,myear,mmin,mhour;

fp = fopen("cyber.txt","rb");

if(fp==NULL)

{

printf("\n\t\t\t\t\tERROR OPENING FILE !!!");

return;

}

printf("\n\n\t\t\t\t\tEnter user\_ID to fetch information :");

scanf("%d",&my\_id);

while(fscanf(fp,"%d %s %02d/%02d/%d %02d:%02d",&id,&name,&mday,&mmon,&myear,&mhour,&mmin)!=EOF)

{

if(my\_id == id)

{

flag=1;

printf("\n\t\t\t\t\tRECORD FOUND SUCCESSFULLY !!!");

printf("\n\n\t\t\t\t\tUser\_ID : %d",id);

printf("\n\t\t\t\t\tName of User : %s",name);

printf("\n\t\t\t\t\tLogin Date And Time : %02d/%02d/%d %02d:%02d",mday,mmon,myear,mhour,mmin);

tothr =(((current\_time->tm\_hour\*60)+(current\_time->tm\_min))-((mhour\*60)+mmin));

duration = tothr/60;

totmin = tothr-(duration\*60);

printf("\n\t\t\t\t\tDuration : %dHr:%dMin",duration,totmin);

if(tothr>300)

{

printf("\n\t\t\t\t\tALERT!!! MALICIOUS ACTIVITY");

}

break;

}

}

fclose(fp);

if(flag==0)

{

printf("\n\t\t\t\t\tRecord not found !!!");

}

}

void delete()

{

system("CLS");

main\_heading();

FILE \*fp,\*ft;

time\_t mytime;

struct tm\* current\_time;

mytime = time(NULL);

current\_time = localtime(&mytime);

int my\_id;

char name[30];

int id;

int mday,mmon,myear,mmin,mhour;

unsigned flag=0;

fp = fopen("cyber.txt","rb");

if(fp==NULL)

{

printf("\n\t\t\t\t\tERROR OPENING FILE !!!");

return;

}

printf("\n\t\t\t\t\t|-------- PREVIOUS ENTERED DATA --------|");

display();

printf("\n\n\n\t\t\t\tEnter ID of the user which you want to delete : ");

scanf("%d",&my\_id);

ft = fopen("cyber1.txt","wb");

if(ft==NULL)

{

printf("\n\t\t\t\tERROR OPENING NEW FILE !!!");

}

while(fscanf(fp,"%d %s %02d/%02d/%d %02d:%02d",&id,&name,&mday,&mmon,&myear,&mhour,&mmin)!=EOF)

{

if(my\_id!=id)

{

flag=1;

fprintf(ft,"%d %s\t",id,name);

fprintf(ft,"%02d/%02d/%d %02d:%02d",mday,mmon,myear,mhour,mmin);

fprintf(ft,"\n");

}

}

if(flag==0)

{

printf("\n\t\t\t\tNo Such Record Found!!!");

}

fclose(fp);

fclose(ft);

remove("cyber.txt");

rename("cyber1.txt","cyber.txt");

printf("\n\n\t\t\t\tRecord Deleted Successfully!!!");

printf("\n\n\t\t\t\t\t|----- Updated Records -----| ");

display();

printf("\n\n\t\t\t\t\tPress any key to Continue");

fflush(stdin);

getchar();

system("CLS");

main\_heading();

menu();

}

void arrival\_time()

{

time\_t rawtime;

struct tm\* timeinfo;

struct tm\* dateinfo;

char buf[80];

char buffer[80];

FILE \*fp;

fp = fopen("cyber.txt", "ab+");

time(&rawtime);

timeinfo = localtime(&rawtime);

dateinfo = localtime(&rawtime);

strftime(buffer, 80, "%I:%M:%S", timeinfo);

strftime(buf, 80, "%b %d, %Y", dateinfo);

printf("\n\n\t\t\t\tArrival Time : %s",buffer);

printf("\t\tDate : %s",buf);

}

void user\_login()

{

char usern[20],pass[20];

FILE \*fp;

fp=fopen("login.txt","ab+");

printf("\n\t\t\t\t\tSIGN IN USER");

printf("\n\t\t\t\t\tEnter Username :");

scanf("%s",&usern);

printf("\n\t\t\t\t\tEnter Password : ");

scanf("%s",&pass);

fprintf(fp,"%s %s",usern,pass);

fprintf(fp,"\n");

system("CLS");

printf("\n\t\t\t\t\tSuccessfully Signed in ");

user\_menu();

}

void login\_user()

{

char u\_id[20],p[20];

char usern[20],pass[20];

FILE \*fp;

fp=fopen("login.txt","rb");

printf("\nUsername : ");

scanf("%s",u\_id);

while(fscanf(fp,"%s %s",&usern,&pass)!=EOF)

{

if(strcmp(u\_id,usern)==0)

{

printf("\nPassword : ");

scanf("%s",&p);

if(strcmp(p,pass)==0)

{

system("CLS");

main\_heading();

printf("\n\n\t\t\t\t\tWELCOME USER!!! LOGIN SUCCESSFULL");

printf("\n\n");

user\_menu();

printf("\n\n\t\t\t\t\tPress any key to continue ");

fflush(stdin);

getchar();

user\_menu();

}

else

{

printf("\n\t\t\t\t\tIncorrect username or password");

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

login\_user();

}

}

printf("\nIncorrect Username!!! try again");

user\_login();

}

}