#include<stdio.h>

#include<conio.h>

#include<string.h>

#include<dos.h>

#include<time.h>

void module1(void);//function prototype for entering patient detail

void module2(void);//function prototype for viewing patient detail

void module3(void);//function prototype for doctors enquiry

void module4(void);//function prototype for getting details about software

void module5(void);//function prototype for taking feedback

void module6(void);//function prototype for quitting the programme

void module7();//function prototype for log in as administrator

//exit prototype for exit function

void userchk(void);//function prototype for giving privilages between user and administrator

char privilage='\0';

void menu(void);//function prototype for calling the main menu

struct patient

{

char p\_id[10];

char name[20];

char sex[10];

char age[4];

char address[50];

char diagnosis[200];

char bloodgroup[10];

char test[200];

};

void main()

{

printf("welcome to");

printf("\n \*\*\*\*\* Hospital Management Simulation \*\*\*\*\* ");

userchk();//module checks the user and administrator

}

void userchk()//module that differentiates user & administrator

{

char passuser[]={"hospital"};// password for user

char passadmin[]={"authority"};//password for administrator

char s1[15];//entered password of administrator

int i=0;

char ch='\0';

char s2[15];//entered password of user

int us\_choice;// choice between user and administrator

int us\_check; // varible that compare integers

printf("\nenter choice\n 1 - administrator \n 2 - user \n");

scanf("%d",&us\_choice);

if(us\_choice==1)

{

printf(" enter password\n");

while(ch!=13)

{

ch=getch();

s1[i++]=ch;

printf("\*");

}

s1[i-1]='\0';

us\_check = stricmp(passadmin,s1);

// printf("us\_check=%d",us\_check);

if(us\_check==0)

{

printf("\nwelcome administrator");

privilage = 'a';

menu();

//return;

}

else

{

printf("\nentered password is wrong\n");

printf("\nPlease Choose the correct User Mode \nEnter correct password");

userchk();

}

}

if(us\_choice==2)

{

printf("enter password\n");

while(ch!=13)

{

ch=getch();

s2[i++]=ch;

printf("\*");

}

s2[i-1]='\0';

us\_check = stricmp(passuser,s2);

// printf("%d",us\_check);

if(us\_check==0)

{

printf("welcome user");

privilage = 'u';

menu();

}

else

{

printf("entered password is wrong");

}

}

}

void menu()

{

int choice;//choice for main menu

int mm;// choice for the goto tag

//clrscr();

printf("welcome to");

printf("\n \*\*\*\*\* Hospital Management Simulation \*\*\*\*\* ");

//main menu starts from here

printf("\n \*\*\*\*\*\*\*\*\*\*\*hospital management software\*\*\*\*\*\*\*\*\*\*\*");

printf(" \n1 - Entering patient detail 2 - View patient detail ");

printf(" \n3 - Doctors enquiry 4 - Details about software ");

printf(" \n5 - Feedback 6 - Exit ");

printf(" \n7- Change current User Mode");

printf(" \n");

//n1:

printf("\n enter choice");

scanf("%d",&choice);

switch(choice)

{

case 1 :

printf("enter patient detail");

module1();//module for enterting patient detail

printf(" \nwould you like to goto the main menu");

printf(" \n 1 - yes \t\t 0 - no\n\t");

scanf("%d",&mm);

if(mm==1)

{

menu();

}

else

{

break;

}

case 2 :

printf(" view patient detail");

module2();//module for veiwing existing patient detail

printf(" \nwould you like to goto the main menu");

printf(" \n 1 - yes \t\t 0 - no\n\t");

scanf("%d",&mm);

if(mm==1)

{

menu();

}

else

{

break;

}

case 3 :

printf("Welcome to doctor's enquiry section");

module3();//module for doctors enquiry section

printf(" \nwould you like to goto the main menu");

printf(" \n 1 - yes \t\t 0 - no\n\t");

scanf("%d",&mm);

if(mm==1)

{

menu();

}

else

{

break;

}

case 4:

printf("details about software");

module4();// module for details about s/w n programmer

printf(" \nwould you like to goto the main menu");

printf(" \n 1 - yes \t\t 0 - no\n\t");

scanf("%d",&mm);

if(mm==1)

{

menu();

}

else

{

break;

}

case 5 :

printf(" welcome to feedback section:");

module5();// module for feedback

printf(" \nwould you like to goto the main menu");

printf(" \n 1 - yes \t\t 0 - no\n\t");

scanf("%d",&mm);

if(mm==1)

{

menu();

}

else

{

break;

}

case 6 :

printf("you are about to exit");

module6(); // module for exit

/\* printf(" \nwould you like to goto the main menu");

printf(" \n 1 - yes \t\t 0 - no\n\t");

scanf("%d",&mm);

if(mm==1)

{

menu();

}

else

{

exit();

// break;

}\*/

case 7 :

printf("case 7");

module7();

printf(" \nwould you like to goto the main menu");

printf(" \n 1 - yes \t\t 0 - no\n\t");

scanf("%d",&mm);

if(mm==1)

{

menu();

}

else

{

//exit();

// break;

}

default :

printf("not valid");

printf(" \nwould you like to goto the main menu");

printf(" \n 1 - yes \t\t 0 - no\n\t");

scanf("%d",&mm);

if(mm==1)

{

menu();

}

else

{

break;

}

}

}

void module1()//module for enterting patient detail

{

FILE \*source;

char another='y';

struct patient detail;

source=fopen("pat\_det.dat","ab");

while(another=='y' || another=='Y')

{

printf("\n Enter Details of a patient --\n");

printf("\n Patient ID : ");

fflush(stdin);

gets(detail.p\_id);

printf("\n Name : ");

fflush(stdin);

gets(detail.name);

printf("\n Sex : ");

fflush(stdin);

gets(detail.sex);

printf("\n Age : ");

gets(detail.age);

printf("\n Bloodgroup : ");

fflush(stdin);

gets(detail.bloodgroup);

printf("\n Address : ");

fflush(stdin);

gets(detail.address);

printf("\n Diagnosis : ");

fflush(stdin);

gets(detail.diagnosis);

printf("\n Test : ");

fflush(stdin);

gets(detail.test);

if(source==NULL)

{

printf("\n Can not open file.");

}

else

{

// fprintf(source,"%s%s%s%s",detail->name,detail->p\_id,detail->age,detail->sex);

fwrite(&detail,sizeof(detail),1,source);

fclose(source);

}

printf("\n Add another record (y/n) :");

another=getche();

}

}

void module2() //module for veiwing existing patient detail

{

FILE \*target;

struct patient detail;

//char ch;

//detail=(struct patient \*)malloc(sizeof(struct patient));

target=fopen("pat\_det.dat","rb");

if(target==NULL)

{

printf("\n Can not open file");

}

else

{

while(fread(&detail,sizeof(struct patient),1,target)==1)

{

printf("\n%s\t%s\t%s\t%s\t%s\t%s\t%s\t%s\n",detail.p\_id,detail.name,detail.address,detail.bloodgroup,detail.diagnosis,detail.sex,detail.test,detail.age);

//fseek(target,sizeof(struct patient),SEEK\_CUR);

}

/\* ch=fgetc(target);

while(ch!=EOF)

{

printf("%c",ch);

ch=fgetc(target);

}\*/

}

}

void module3()//module for doctors enquiry section

{

int choice1;

printf("\n choose respected medical field");

printf("\n 1 - surgeon \t 2 - neurology ");

printf("\n 2 - orthopaedics \t4 - eye specialist ");

printf("\n 5 - ent \t 6 - physician ");

printf("\n enter field for which you want to see consultation time ");

scanf("%d",&choice1);

if(choice1==1)

{

printf("the timings are 11:00");

}

else if(choice1==2)

{

printf("the timings are 11:00");

}

else if(choice1==3)

{

printf("the timings are 11:00");

}

else if(choice1==4)

{

printf("the timings are 11:00");

}

else if(choice1==5)

{

printf("the timings are 11:00");

}

else if(choice1==6)

{

printf("the timings are 11:00");

}

else{

printf("invalid choice please retype again");

}

}

void module4()// module for details about s/w n programmer

{

printf("\n\*\*\*\*\*this section contains program n contact details\*\*\*\*\*");

printf("\n hospital simulation software");

printf("\n Company :- vignan private limited\t\t \t Programmer :- Er.chandana");

printf("\n Front End :- 'c' \t\t \t Back End :- MS word,files");

printf("\n Contact Address:-VIGNAN UNIVERSITY\n \t\tGr.Noida \n\t\t 201301");

printf("\n Contact No.:-\t +919911243494,+919452948071");

printf("\n Email :saichandana191@gmail.c \n");

printf("\n HOPE YOU LIKE IT");

}

void module5()// module for feedback

{

char feed\_check;

FILE \*feedback;

char feed[2000];//limit for feedback

printf(" \n You are welcomed for Feedback Section ");

printf(" \n Let us describe you the Requisites for giving Feedback ");

printf(" \n while the System is preparing itself for feedback ");

printf(" \n You are required to write your feedback regarding in not more than ");

printf(" \n 2000 characters,alphanumeic allowed and an space has its own value.");

// printf("\n\n\n\n\n\n Now give your Feedback ");

//delay(1000);

/\*delay(1000);

delay(1000);

delay(1000);

delay(1000);\*/

if(privilage=='u')

{ printf("\n\n\n\n\n\n\n\n Now give your feedback");

feedback =fopen("feed.txt","w+");

if(feedback==NULL)

{

puts("cannot open file");

return;

}

fflush(stdin);

gets(feed);

fprintf(feedback,"%s",feed);

fclose(feedback);

}

if(privilage=='a')

{

printf("\n welcome Administrator");

printf("\n Please select a task to do");

printf("\n a - to read feedback file \t b - append feedback for futurevisit\n\n\n\n\n\t");

fflush(stdin);

feed\_check = getchar();

if(feed\_check=='a')

{

FILE \*fopen(), \*fp;

int c , linecount;

char filename[40], reply[40];

//clrscr();

printf("Enter file name: ");

fflush(stdin);

gets( filename );

fp = fopen( filename, "r" ); /\* open for reading \*/

if ( fp == NULL ) /\* check does file exist etc \*/

{

printf("Cannot open %s for reading \n",

filename );

/\* terminate program \*/

}

linecount = 1 ;

reply[0] ='\0' ;

c = getc( fp ) ; /\* Read 1st character if any \*/

while ( c != EOF && reply[0] != 'Q' && reply[0] !=

'q')

{

putchar( c ) ; /\*

Display character \*/

if ( c == '\n' )

linecount = linecount+ 1 ;

if ( linecount == 20 )

{

linecount = 1 ;

printf("[PressReturn to continue, Q to quit]");

gets( reply ) ;

}

c = getc ( fp );

}

fclose( fp );

}

if(feed\_check=='b')

{

feedback =fopen("feed.txt","a+");

if(feedback==NULL)

{

puts("cannot open file");

return;

}

fflush(stdin);

gets(feed);

fprintf(feedback,"%s",feed);

fclose(feedback);

}

}

}

void module6() // module for exit

{

printf("\nPlease wait the program ends");

}

void module7()// module for log in as administrator

{

userchk();

}