Programme

#include<windows.h>

#include<stdio.h>

#include<conio.h>

#include <stdlib.h>

#include<string.h>

#include<ctype.h>

#include<dos.h>

#include<time.h>

char password[10]={"samar"};

void Password(void);

void mainmenu(void);

void issuebook(void);

void addbook(void);

void searchbook(void);

void booklist(void);

void deletebook(void);

void frame(void); //body of main

void blink(void); //dot blinking system

void Mmenu(void); //unction for calling main-menu

void Ddefault(void); //function for making false default

void closeApplication(void); //function to terminate application

char categories[][15]={"Computer","Mathematics","Science","Engineering","English","Literature"};

char language[][10]={"English","Hindi"};

FILE \*fp,\*ft,\*fs;

struct book

{

int bookId;

char bookName[20];

char bookAuthor[20];

char \*catg;

int year;

char publication[20];

char \*lang;

}a;

int t(void) //for time

{

time\_t t;

time(&t);

printf("Date and time:%s\n",ctime(&t));

return 0 ;

}

COORD coord = {0, 0};

void gotoxy (int x, int y)

{

coord.X = x; coord.Y = y; // X and Y coordinates

SetConsoleCursorPosition(GetStdHandle(STD\_OUTPUT\_HANDLE), coord);

}

int main()

{

gotoxy(15,5);

printf("Welcome To Our Project");

gotoxy(15,6);

t();

getch();

system("cls");

Password();

return 0;

}

void Password(void) //for password option

{

system("cls");

static int k=0;

char d[25]=" Password Protected ";

char ch,pass[10];

int i=0,j;

gotoxy(10,13);

for(j=0;j<(40+strlen(d));j++)

{

printf("\*");

}

gotoxy(10,4);

for(j=0;j<20;j++)

{

Sleep(50);

printf("\*");

}

for(j=0;j<strlen(d);j++)

{

Sleep(50);

printf("%c",d[j]);

}

for(j=0;j<20;j++)

{

Sleep(50);

printf("\*");

}

gotoxy(10,6);

t();

gotoxy(15,8);

printf("Enter Password: ");

while(ch!=13)

{

ch=getch();

if(ch!=13 && ch!=8)

{

putch('\*');

pass[i] = ch;

i++;

}

}

pass[i] = '\0';

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

{

for(j=0;j<5;j++)

{

system("cls");

gotoxy(15,2);

Sleep(250);

printf("Password match");

Sleep(250);

}

gotoxy(15,3);

printf("Processing");

blink();

mainmenu();

}

else

{

gotoxy(15,16);

printf("\aWarning!! Incorrect Password");

getch();

k++;

if(k==2)

closeApplication();

Password();

}

}

void mainmenu(void)

{

char ch;

system("cls");

frame();

gotoxy(38,6);

printf("Welcome To Mainmenu");

gotoxy(25,9);

printf("\xDB\xDB\xDB\xB2 1. Issue Book");

gotoxy(25,11);

printf("\xDB\xDB\xDB\xB2 2. Add Book");

gotoxy(25,13);

printf("\xDB\xDB\xDB\xB2 3. Search Book");

gotoxy(25,15);

printf("\xDB\xDB\xDB\xB2 4. Book List");

gotoxy(25,17);

printf("\xDB\xDB\xDB\xB2 5. Delete Book");

gotoxy(25,19);

printf("\xDB\xDB\xDB\xB2 6. Close Application");

gotoxy(30,21);

t(); //printing time

gotoxy(30,23);

printf("Enter your choice: ");

fflush(stdin);

ch=getch();

switch(ch)

{

case '1':

issuebook();

break;

case '2':

addbook();

break;

case '3':

searchbook();

break;

case '4':

booklist();

break;

case '5':

deletebook();

break;

case '6':

{

closeApplication();

break;

}

default:

{

Ddefault();

mainmenu();

}

}

}

void frame(void)

{

int i;

gotoxy(20,4);

for(i=0; i<30; i++)

printf("\xB2\xB2");

gotoxy(20,24);

for(i=0; i<30; i++)

printf("\xB2\xB2");

for(i=0; i<20; i++)

{

gotoxy(20,5+i);

printf("\xB2");

gotoxy(79,4+i);

printf("\xB2");

}

}

void addbook(void)

{

char another='y';

int ch,tx;

system("cls");

frame();

gotoxy(34,6);

printf("Welcome To Add-Book menu");

gotoxy(25,9);

printf("\xDB\xDB\xDB\xB2 1. Computer");

gotoxy(50,9);

printf("\xDB\xDB\xDB\xB2 2. Mathematics");

gotoxy(25,11);

printf("\xDB\xDB\xDB\xB2 3. Science");

gotoxy(50,11);

printf("\xDB\xDB\xDB\xB2 4. Engineering");

gotoxy(25,13);

printf("\xDB\xDB\xDB\xB2 5. English");

gotoxy(50,13);

printf("\xDB\xDB\xDB\xB2 6. Literature");

gotoxy(25,17);

printf("\xDB\xDB\xDB\xB2 9. Go to main-menu.");

gotoxy(25,19);

printf("\xDB\xDB\xDB\xB2 0. Close Application.");

gotoxy(30,21);

t(); //printing time

gotoxy(30,23);

printf("Enter your choice: ");

scanf("%d",&ch);

switch(ch)

{

case 1:

case 2:

case 3:

case 4:

case 5:

case 6:

fp=fopen("library.dat","ab+");

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

{

system("cls");

frame();

gotoxy(34,6);

printf("Welcome to adding book");

gotoxy(25,8);

printf("Enter Book id: ");

scanf("%d",&a.bookId);

gotoxy(25,10);

printf("Enter Book name: ");

fflush(stdin);

gets(a.bookName);

//scanf("%s",a.bookName);

gotoxy(25,12);

printf("Enter Book author: ");

fflush(stdin);

gets(a.bookAuthor);

//scanf("%s",a.bookAuthor);

gotoxy(25,14);

printf("Enter Book publication year: ");

scanf("%d",&a.year);

gotoxy(25,16);

printf("Enter Book publication: ");

fflush(stdin);

gets(a.publication);

//scanf("%s",a.publication);

to:

gotoxy(25,18);

printf("Enter Language: 1. English 2. Hindi : ");

scanf("%d",&tx);

if(tx==2||tx==1)

a.lang=language[tx-1];

else

{

gotoxy(25,18);

printf("\aEnter The Correct choice: "); //space key is alloted

getch();

goto to;

}

a.catg=categories[ch-1];

fseek(fp,0,SEEK\_END);

fwrite(&a,sizeof(a),1,fp);

gotoxy(25,20);

printf("The book is added is successfully.");

gotoxy(25,22);

printf("want to add more book ? Y/N ? ");

fflush(stdin);

another=getche();

}

fclose(fp);

//getch();

Mmenu();

break;

case 9:

{

Mmenu();

break;

}

case 0:

{

closeApplication();

break;

}

default:

{

Ddefault();

addbook();

}

}

}

void searchbook(void)

{

char ch , another = 'y';

int id;

char name[20];

int flag = 0;

system("cls");

frame();

gotoxy(34,6);

printf("Welcome To Search-Book menu");

gotoxy(25,9);

printf("\xDB\xDB\xDB\xB2 1. Search Book by id");

gotoxy(25,11);

printf("\xDB\xDB\xDB\xB2 2. Search Book by name");

gotoxy(25,13);

printf("\xDB\xDB\xDB\xB2 3. Go to main-menu.");

gotoxy(25,15);

printf("\xDB\xDB\xDB\xB2 4. Close Application.");

gotoxy(30,21);

t(); //printing time

gotoxy(30,23);

printf("Enter your choice: ");

fflush(stdin);

ch=getch();

switch(ch)

{

case '1':

{

fp=fopen("library.dat","rb");

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

{

system("cls");

flag =0;

gotoxy(25,8);

printf("Enter book ID: ");

scanf("%d",&id);

gotoxy(25,10);

blink();

//fp=fopen("library.dat","rb");

rewind(fp);

while ( fread(&a,sizeof(a),1,fp)==1)

{

if(a.bookId == id)

{

flag = 1;

system("cls");

frame();

gotoxy(25,9);

printf("The book of id: %d is available",a.bookId);

gotoxy(25,11);

printf("Book Name: %s",a.bookName);

gotoxy(25,13);

printf("Book Author: %s",a.bookAuthor);

gotoxy(25,15);

printf("Categories: %s",a.catg);

gotoxy(25,17);

printf("Language: %s",a.lang);

gotoxy(25,19);

printf("Publication Year: %d",a.publication);

gotoxy(25,21);

printf("Published By: %s",a.publication);

}

}

if (flag == 0)

printf(" Book is not found");

gotoxy(25,22);

printf("want to find more book ? Y/N ? ");

fflush(stdin);

another=getche();

}

fclose(fp);

getch();

Mmenu();

break;

}

case '2':

{

fp=fopen("library.dat","rb");

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

{

system("cls");

flag =0;

gotoxy(25,8);

printf("Enter name of book: ");

scanf("%s",name);

gotoxy(25,10);

blink();

rewind(fp);

while ( fread(&a,sizeof(a),1,fp)==1)

{

if(strcmpi(a.bookName , name) == 0)

{

flag = 1;

system("cls");

frame();

gotoxy(25,9);

printf("The book of name: %s is available",a.bookName);

gotoxy(25,11);

printf("Book ID: %d",a.bookId);

gotoxy(25,13);

printf("Book Author: %s",a.bookAuthor);

gotoxy(25,15);

printf("Categories: %s",a.catg);

gotoxy(25,17);

printf("Language: %s",a.lang);

gotoxy(25,19);

printf("Publication Year: %d",a.publication);

gotoxy(25,21);

printf("Published By: %s",a.publication);

}

}

if ( flag == 0)

printf(" Book is not found.");

gotoxy(25,22);

printf("want to find more book ? Y/N ? ");

fflush(stdin);

another=getche();

}

fclose(fp);

getch();

Mmenu();

break;

}

case '3':

{

Mmenu();

break;

}

case '4':

{

closeApplication();

break;

}

default:

{

Ddefault();

searchbook();

}

}

}

void booklist(void)

{

system("cls");

int j=4;

fp=fopen("library.dat","rb");

rewind(fp);

printf("\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Book List \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");

printf(" BookId BookName BookAuthor BookCategories Year Publication Language");

while(fread(&a,sizeof(a),1,fp)==1)

{

gotoxy(7,j);

printf("%d",a.bookId);

gotoxy(19,j);

printf("%s",a.bookName);

gotoxy(34,j);

printf("%s",a.bookAuthor);

gotoxy(54,j);

printf("%s",a.catg);

gotoxy(72,j);

printf("%d",a.year);

gotoxy(88,j);

printf("%s",a.publication);

gotoxy(103,j);

printf("%s",a.lang);

j++;

}

fclose(fp);

gotoxy(8,j+1);

printf("Enter any key to go Main-menu...");

getch();

Mmenu();

}

void deletebook(void)

{

char ch , another = 'y';

int id , flag;

char name[20];

system("cls");

frame();

gotoxy(34,6);

printf("Welcome To Delete-Book menu");

gotoxy(25,9);

printf("\xDB\xDB\xDB\xB2 1. Delete Book by id");

gotoxy(25,11);

printf("\xDB\xDB\xDB\xB2 2. Delete Book by name");

gotoxy(25,13);

printf("\xDB\xDB\xDB\xB2 3. Go to main-menu.");

gotoxy(25,15);

printf("\xDB\xDB\xDB\xB2 4. Close Application.");

gotoxy(30,21);

t(); //printing time

gotoxy(30,23);

printf("Enter your choice: ");

fflush(stdin);

ch=getche();

switch(ch)

{

case '1':

{

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

{

fp=fopen("library.dat","ab+");

system("cls");

frame();

flag =0;

gotoxy(25,8);

printf("Enter book ID: ");

scanf("%d",&id);

gotoxy(25,10);

rewind(fp);

while ( fread(&a,sizeof(a),1,fp)==1)

{

if(a.bookId == id)

{

flag = 1;

}

}

if (flag == 0)

{

fclose(fp);

printf(" Book is not found");

}

else if (flag != 0)

{

rewind(fp);

fs=fopen("new.dat","ab+");

printf(" Book is found. Deleting Book");

while ( fread(&a,sizeof(a),1,fp)==1)

{

if(a.bookId != id)

{

flag = 1;

fseek(fs,0,SEEK\_CUR);

fwrite(&a,sizeof(a),1,fs); //write all in tempory file except that

}

}

fclose(fp);

fclose(fs);

remove("library.dat");

rename("new.dat","library.dat");

}

gotoxy(25,12);

printf("want to delete more book ? Y/N ? ");

fflush(stdin);

another=getche();

}

gotoxy(25,14);

printf("Press any key to continue...");

getch();

Mmenu();

break;

}

case '2':

{

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

{

fp=fopen("library.dat","ab+");

system("cls");

frame();

flag =0;

gotoxy(25,8);

printf("Enter book name: ");

fflush(stdin);

gets(name);

gotoxy(25,10);

rewind(fp);

while ( fread(&a,sizeof(a),1,fp)==1)

{

if(strcmpi(a.bookName , name)==0)

{

flag = 1;

}

}

if (flag == 0)

{

fclose(fp);

printf(" Book is not found");

}

else if (flag != 0)

{

rewind(fp);

fs=fopen("new.dat","ab+");

printf(" Book is found. Deleting Book");

while ( fread(&a,sizeof(a),1,fp)==1)

{

if(strcmpi(a.bookName , name) != 0)

{

flag = 1;

fseek(fs,0,SEEK\_CUR);

fwrite(&a,sizeof(a),1,fs); //write all in tempory file except that

}

}

fclose(fp);

fclose(fs);

remove("library.dat");

rename("new.dat","library.dat");

}

gotoxy(25,12);

printf("want to delete more book ? Y/N ? ");

fflush(stdin);

another=getche();

}

gotoxy(25,14);

printf("Press any key to continue...");

getch();

Mmenu();

break;

}

case '3':

{

Mmenu();

break;

}

case '4':

{

closeApplication();

break;

}

default:

{

Ddefault();

deletebook();

}

}

}

void blink(void)

{

for(int j=0;j<10;j++)

{

Sleep(350);

printf(".");

}

}

void issuebook(void)

{

char ch,another='y';

system("cls");

fp=fopen("library.dat","ab+");

frame();

gotoxy(34,6);

printf("Welcome To Issue book menu");

gotoxy(25,9);

printf("\xDB\xDB\xDB\xB2 1. Issue Book");

gotoxy(25,11);

printf("\xDB\xDB\xDB\xB2 2. Issued Book List");

gotoxy(25,13);

printf("\xDB\xDB\xDB\xB2 3. Deposit a Book");

gotoxy(25,15);

printf("\xDB\xDB\xDB\xB2 4. Go to main-menu.");

gotoxy(25,17);

printf("\xDB\xDB\xDB\xB2 5. Close Application.");

gotoxy(30,21);

t(); //printing time

gotoxy(30,23);

printf("Enter your choice: ");

fflush(stdin);

ch=getche();

switch(ch)

{

case '1':

system("cls");

frame();

printf("ENter issue book list.....");

getch();

break;

case '2':

addbook();

break;

case '3':

printf("Deposit Book");

break;

case '4':

{

Mmenu();

break;

}

case '5':

{

closeApplication();

break;

}

default:

{

Ddefault();

issuebook();

}

}

fclose(fp);

}

void Mmenu()

{

system("cls");

frame();

gotoxy(25,6);

printf("Processing for Main-menu");

blink();

mainmenu();

}

void Ddefault(void)

{

system("cls");

frame();

gotoxy(25,6);

printf("Enter a valid choice...");

gotoxy(25,8);

printf("Press any key to continue...");

getch();

}

void closeApplication(void)

{

system("cls");

frame();

gotoxy(25,6);

printf("thanks");

gotoxy(25,9);

printf("Brought to u by team 3....");

gotoxy(25,11);

printf("Exiting in three second.");

blink();

Sleep(3000);

gotoxy(10,25);

exit(0);

}