**SOURCE CODE**

**START**

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

#include<ctype.h>

#define NAMESIZE 50 //Maximum size of a name i.e Book name or Author name

typedef struct //Structure of a book

{

char name[NAMESIZE];

char isbn[20];

char author[NAMESIZE];

int year;

char status[10];

} books;

books \*book;//Global Book type pointer

int count = 0; //Global variable that keeps a count of the number of books

int size; //Global variable for dynamic memory allocation

int add(void);

int searchName(char);

int searchISBN(char);

int search(void);

void ShowList(void);

int DeleteBook(void);

void Display(int);

void Issue(void);

void Receive(void);

void main()

{

system("COLOR 70");

int option = -1, t, f;

char opt[10];

puts("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ");

puts(" ACCESS - IT BOOK MANAGEMENT SYSTEM ");

puts("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

printf("\n\n\t\tEnter total No. of Books you want to add in Library : ");

scanf("%d", &size);

book = (books\*)malloc(sizeof(books)\*(size));

system("cls");

while (option != 0)

{

system("COLOR 70");

system("cls");

fflush(stdin);

puts("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ");

puts(" ACCESS - IT BOOK MANAGEMENT SYSTEM ");

puts("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

printf("\n\n\n\tPlease choose an option!\n\n\t 1. Add a Book\n\n\t 2. Search a Book\n\n\t 3. Delete a book\n\n\t 4. Show All Books\n\n\t 5. Issue a Book\n\n\t 6. Recieve a Book\n\n\t 0. Exit\n\n\t Option :\t");

gets(opt);

sscanf(opt, "%d", &option);

while (strlen(opt) != 1 || 0 == isdigit(opt[0]) || option > 6 || option < 0)

{

system("cls");

printf("\n\n\n\t\t\t\t\tERROR!\n\n\n\t\t\t\t\tPLEASE CHOOSE CORRECT OPTION!\n\n\t\t\t\t\tEXAMPLE --> Enter 1 if you wish to add a book\t");

system("COLOR 0C");

for (int i = 0; i <= 32767; i++)

{

for (int j = 0; j <= 32767; j++)

{

for (int k = 0; k <= 1; k++)

{

}

}

}

system("COLOR 70");

fflush(stdin);

system("cls");

puts("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ");

puts(" ACCESS - IT BOOK MANAGEMENT SYSTEM ");

puts("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

printf("\n\n\t 1. Add a Book\n\n\t 2. Search a Book\n\n\t 3. Delete a book\n\n\t 4. Show All Books\n\n\t 5. Issue a Book\n\n\t 6. Recieve a Book\n\n\t 0. Exit\n\n\n\t Option :\t");

gets(opt);

sscanf(opt, "%d", &option);

}

switch (option)

{

case 1: //Executes add book option

t = add();

if (0 != t)

{

printf("\n\n\t\tError Saving The Book!\n\t\tNot Enough Memory\n\n\n");

system("pause");

system("cls");

}

else

{

printf("\n\n\t\t\tBOOK SAVED SUCCESSFULLY!\n\n\n\n");

system("pause");

system("cls");

}

break;

case 2: //Executes search book option

search();

break;

case 3:

f = DeleteBook();//Executes Delete book option

break;

case 4:

if (count != 0)

{

ShowList();//option = 4;(Show all books)

}

else

{

printf("\n\n\t\t No Books To Show\n\n\n\n");

system("pause");

}

break;

case 5://Issue a Book

Issue();

break;

case 6: //Receive

Receive();

break;

case 0:

option = 0;

break;

default:

break;

}

}

}

//main() ends

int add()

{

system("COLOR 8F");

if (size > count)

{

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tADD");

printf("%.100s", "\n........................................................................................................................");

//Entering name starts

int t = 0;//To check validity of name i.e user shall not add too much alpha-numerics

while (t < 3)

{

t = 0;

printf("\n\nEnter name of the book\t : ");

gets(book[count].name);

int r, j;

for (int i = 0; book[count].name[i] != '\0'; i++)

{

r = isalpha(book[count].name[i]); //t remains 0 if there is no alphabet in name, isalpha takes character as input and returns zero if not an alphabet

j = isdigit(book[count].name[i]); //j remains 0 if there is no digit in name

if (r != 0)

t += 2;

else

t--;

if (j != 0)

t++;

}

if (t < 3)

{

printf("\n\n\t\t\tPLEASE ENTER A VALID NAME\n\n\n\n");

}

}

while (searchName(book[count].name) != -1) //Checks if the name already exists

{

printf("\nThe name you entered ALREADY EXIST. Please enter a different name\n\n\t");

t = 0;

while (t < 3)

{

t = 0;

printf("\nEnter name of the book\t : ");

gets(book[count].name);

int r, j;

for (int i = 0; book[count].name[i] != '\0'; i++)

{

r = isalpha(book[count].name[i]); //t remains 0 if there is no alphabet in name

j = isdigit(book[count].name[i]); //j remains 0 if there is no digit in name

if (r != 0)

t += 2;

else

t--;

if (j != 0)

t++;

}

if (t < 3)

{

printf("\n\n\t\t\tPLEASE ENTER A VALID NAME\n\n\n\n");

}

}

}

// Entering name ends

// Entering ISBN starts

printf("\nEnter ISBN of the book\t : ");

gets(book[count].isbn);

int d = 1;

for (int i = 0; book[count].isbn[i] != '\0'; i++)

d \*= isdigit(book[count].isbn[i]);

while (strlen(book[count].isbn) != 13 || 0 == d)

{

printf("\n\n\t\tINVALID INPUT! ISBN must be a 13 digit number\n\t\tPlease input again\n\n");

printf("\nEnter ISBN of the book\t : ");

gets(book[count].isbn);

d = 1;

for (int i = 0; book[count].isbn[i] != '\0'; i++)

d \*= isdigit(book[count].isbn[i]);

}

while (searchISBN(book[count].isbn) != -1)//search returns -1 if ISBN already exists

{

printf("\nThe ISBN you entered ALREADY EXIST. Please enter a different ISBN\n\n\t");

printf("\nEnter ISBN of the book\t : ");

gets(book[count].isbn);

d = 1;

for (int i = 0; book[count].isbn[i] != '\0'; i++)

d \*= isdigit(book[count].isbn[i]);

while (strlen(book[count].isbn) != 13 || 0 == d)

{

printf("\n\n\t\tINVALID INPUT! ISBN must be a 13 digit number\n\t\tPlease input again\n\n");

printf("\nEnter ISBN of the book\t : ");

gets(book[count].isbn);

d = 1;

for (int i = 0; book[count].isbn[i] != '\0'; i++)

d \*= isdigit(book[count].isbn[i]);

}

}

//Entering ISBN ends

// Entering year starts

char Year[10];

printf("\nEnter the year of publishing (yyyy) :\t");

gets(Year);

int l = 0;

for (int i = 0; Year[i] != '\0'; i++)

{

l += isalpha(Year[i]);

}

while (strlen(Year) != 4 || l != 0)

{

printf("\n\n\t\tINVALID INPUT! Please input again\n");

printf("\nEnter the year of publishing (yyyy) :\t");

gets(Year);

l = 0;

for (int i = 0; Year[i] != '\0'; i++)

{

l += isalpha(Year[i]);

}

}

sscanf(Year, "%d", &book[count].year);

//Entering year ends

//Entering author starts

int p = 0;

while (p < 2)

{

printf("\nEnter name of the author : ");

gets(book[count].author);

int r, j;

for (int i = 0; book[count].author[i] != '\0'; i++)

{

r = isalpha(book[count].author[i]); //r remains 0 if there is no alphabet in name

j = isdigit(book[count].author[i]); //j remains 0 if there is no digit in name

if (r != 0)

p += 2;

else

p--;

}

if (p < 2)

{

printf("\n\n\t\t\tPlease enter a valid name\n\n\n\n");

}

if (strlen(book[count].author) == 0)

{

0 == p;

}

}//Entering author ends

strncpy(book[count].status, "Available ", 10);

count++;

return 0;

}

else

return -1;

} //add() ends

int search(void)

{

system("COLOR 8F");

char nameKey[NAMESIZE], IsbnKey[20];

int option;

char opt[10];

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tSEARCH");

printf("%.100s", "\n........................................................................................................................");

printf("\n\t\t Please select how do want to search\n\n\t\t\t1. Search by name\n\n\t\t\t2. Search by ISBN\n\n\t\t\t0. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

while (strlen(opt) != 1 || 0 == isdigit(opt[0]) || option > 2 || option < 0)

{

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tSEARCH");

printf("%.100s", "\n........................................................................................................................");

printf("\n\n\t\t\t\tERROR!\n\t\tPlease select correct option!\n\n\t\t\t1. Search by name\n\n\t\t\t2. Search by ISBN\n\n\t\t\t0. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

}

int counter = 0;

while (option != 0)

{

if (counter != 0)

{

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tSEARCH");

printf("%.100s", "\n........................................................................................................................");

printf("\n\t\t Please select how do you want to search\n\n\t\t\t1. Search by name\n\n\t\t\t2. Search by ISBN\n\n\t\t\t0. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

while (strlen(opt) != 1 || 0 == isdigit(opt[0]) || option > 2 || option < 0)

{

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tSEARCH");

printf("%.100s", "\n........................................................................................................................");

printf("\n\n\t\t\t\tERROR!\n\t\tPlease select correct option!\n\n\n\t\t\t1. Search by name\n\n\t\t\t2. Search by ISBN\n\n\t\t\t0. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

}

}

switch (option)

{

case 1: //When user chooses to search by name

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

gets(nameKey);

int t = searchName(nameKey);

if (t != -1) //If the search is successfull

{

Display(t);

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

system("pause");

system("cls");

}

else //If the search is unsuccessfull

{

printf("\n\n\t\tBOOK NOT FOUND\n\n\n\n");

system("pause");

system("cls");

}

counter++;

break;

case 2: //If the user chooses to saerch by ISBN

printf("\n\n\t\tEnter ISBN of the book :\t");

gets(IsbnKey);

int s = searchISBN(IsbnKey);

if (s != -1) //If the search is successfull

{

Display(s);

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

system("pause");

system("cls");

}

else //If the search is unsuccessfull

{

printf("\n\n\t\tBOOK NOT FOUND\n\n\n\n");

system("pause");

system("cls");

}

counter++;

break;

case 0:

option = 0;

system("cls");

break;

default:

break;

}

}

} //search() ends

int searchName(char key[])

{

for (int i = 0; i < count; i++)

{

if (0 == strcmp(book[i].name, key))

return i; //returns index of the found match

}

return -1;

}//searchName() ends

int searchISBN(char key[])

{

for (int i = 0; i < count; i++)

{

if (0 == strcmp(book[i].isbn, key))

return i;

}

return -1;

}//searchISBN() ends

int DeleteBook(void)

{

system("COLOR 8F");

char nameKey[NAMESIZE], IsbnKey[20];

int option;

char opt[10];

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tDELETE");

printf("%.100s", "\n........................................................................................................................");

printf("\n\t\t Please select how do want to delete\n\n\t\t\t1. Delete by name\n\n\t\t\t2. Delete by ISBN\n\n\t\t\t0. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

while (strlen(opt) != 1 || 0 == isdigit(opt[0]) || option > 2 || option < 0)

{

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tDELETE");

printf("%.100s", "\n........................................................................................................................");

printf("\n\n\t\t\t\tERROR!\n\t\tPlease select correct option\n\n\t\t\t1. Delete by name\n\n\t\t\t2. Delete by ISBN\n\n\t\t\t0. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

}

int counter = 0;

while (option != 0)

{

if (counter != 0)

{

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tDELETE");

printf("%.100s", "\n........................................................................................................................");

printf("\n\t\t Please select how do want to delete\n\n\t\t\t1. Delete by name\n\n\t\t\t2. Delete by ISBN\n\n\t\t\t0. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

while (strlen(opt) != 1 || 0 == isdigit(opt[0]) || option > 2 || option < 0)

{

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tDELETE");

printf("%.100s", "\n........................................................................................................................"); printf("\n\n\t\t\t\tERROR!\n\t\tPlease select correct option\n\n\t\t\t1. Delete by name\n\n\t\t\t2. Delete by ISBN\n\n\t\t\t3. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

}

}

switch (option)

{

case 1:

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

gets(nameKey);

counter++;

int t = searchName(nameKey);

if (t != -1) //If the search is successfull

{

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tDELETE");

printf("%.100s", "\n........................................................................................................................");

printf("\n\n\t\t ######### Book Details #########");

printf("\n\n\t\tBook Name : %s", book[t].name);

printf("\n\t\tBook Author : %s", book[t].author);

printf("\n\t\tBook ISBN : %s", book[t].isbn);

printf("\n\t\tPublishing Year: %d\n\n\n", book[t].year);

printf("\n\t\tStatus : %.10s\n\n\n", book[t].status);

char RemBook[10];

int op = 0;

printf("\n\t\tARE YOU SURE YOU WANT TO DELETE THE BOOK?\n\t\tOptions\n\t\t\t1. Yes\n\t\t\t2. No\n\t\tOption :\t");

gets(RemBook);

sscanf(RemBook, "%d", &op);

while (strlen(RemBook) != 1 || ((op != 1) && (op != 2)))

{

printf("\n\n\t\t\t\tERROR!\n\t\tPlease Enter Correct Option\n\t\tARE YOU SURE YOU WANT TO DELETE THE BOOK\n\t\tOptions\n\t\t\t1. Yes\n\t\t\t2. No\n\t\tOption :\t");

gets(RemBook);

sscanf(RemBook, "%d", &op);

}

system("pause");

if (1 == op)

{

for (int j = t; j < count - 1; j++)

{

book = book + 1;

}

count--;

printf("\n\n\t\tBOOK DELETED SUCCESSFULLY!\n\n\n");

system("pause");

}

else

{

printf("\n\n\t\tYou Chose not to delete the book!\n\n\n");

system("pause");

}

}

else //If the search is unsuccessfull

{

printf("\n\n\t\tBOOK NOT FOUND\n\n\n\n");

system("pause");

system("cls");

}

break;

case 2:

printf("\n\n\t\tEnter ISBN of the book :\t");

gets(IsbnKey);

counter++;

t = searchISBN(IsbnKey);

if (t != -1) //If the search is successfull

{

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tDELETE");

printf("%.100s", "\n........................................................................................................................"); printf("\n\n\t\t ######### Book Details #########");

printf("\n\n\t\tBook Name : %s", book[t].name);

printf("\n\t\tBook Author : %s", book[t].author);

printf("\n\t\tBook ISBN : %s", book[t].isbn);

printf("\n\t\tPublishing Year: %d\n\n\n", book[t].year);

printf("\n\t\tStatus : %.10s\n\n\n", book[t].status);

char RemBook[10];

int op = 0;

printf("\n\t\tARE YOU SURE YOU WANT TO DELETE THE BOOK?\n\t\tOptions\n\t\t\t1. Yes\n\t\t\t2. No\n\t\tOption :\t");

gets(RemBook);

sscanf(RemBook, "%d", &op);

while (strlen(RemBook) != 1 || ((op != 1) && (op != 2)))

{

printf("\n\n\t\t\t\tERROR!\n\t\tPlease Enter Correct Option\n\t\tARE YOU SURE YOU WANT TO DELETE THE BOOK?\n\t\tOptions\n\t\t\t1. Yes\n\t\t\t2. No\n\t\tOption :\t");

gets(RemBook);

sscanf(RemBook, "%d", &op);

}

system("pause");

if (1 == op)

{

int tmp = 0;

for (int j = t; j < count - 1; j++)

{

book = book + 1;

}

count--;

system("cls");

printf("\n\n\t\tBOOK DELETED SUCCESSFULLY!\n");

system("pause");

}

else

{

printf("\n\n\t\tYou Chose not to delete the book!\n");

system("pause");

}

}

else //If the search is unsuccessfull

{

printf("\n\n\t\tBOOK NOT FOUND\n\n\n\n");

system("pause");

system("cls");

}

break;

}

}

}

void Display(int i)

{

system("COLOR 8F");

system("cls");

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

printf("\t\t ######### Book Details #########");

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

printf("\n\n\t\tBook Name : %s", book[i].name);

printf("\n\t\tBook Author : %s", book[i].author);

printf("\n\t\tBook ISBN : %s", book[i].isbn);

printf("\n\t\tPublishing Year : %d\n\n\n", book[i].year);

printf("\n\t\tStatus : %.10s\n\n\n", book[i].status);

}//Display() ends

void ShowList(void)

{

system("COLOR 8F");

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tBOOK LIST");

printf("%.100s", "\n........................................................................................................................");

for (int i = 0; i < count; i++)

{

printf("\n\n\t\t ######### Book %d Details #########", i + 1);

printf("\n\n\t\tBook Name : %s", book[i].name);

printf("\n\t\tBook Author : %s", book[i].author);

printf("\n\t\tBook ISBN : %s", book[i].isbn);

printf("\n\t\tPublishing Year: %d\n", book[i].year);

printf("\n\t\tStatus : %.10s\n\n\n", book[i].status);

}

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

system("pause");

}

void Issue(void)

{

system("COLOR 8F");

system("cls");

char nameKey[NAMESIZE], IsbnKey[20];

int option;

char opt[10];

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tISSUE");

printf("%.100s", "\n........................................................................................................................");

printf("\n\t\t Please select how do want to search\n\n\t\t\t1. Search by name\n\n\t\t\t2. Search by ISBN\n\n\t\t\t0. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

while (strlen(opt) != 1 || 0 == isdigit(opt[0]) || option > 2 || option < 0)

{

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tISSUE");

printf("%.100s", "\n........................................................................................................................");

printf("\n\n\t\t\t\tERROR!\n\n\t\tPlease select correct option!\n\n\t\t\t1. Search by name\n\n\t\t\t2. Search by ISBN\n\n\t\t\t0. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

}

int counter = 0;

while (option != 0)

{

if (counter != 0)

{

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tISSUE");

printf("%.100s", "\n........................................................................................................................");

printf("\n\t\t Please select how do you want to search\n\n\t\t\t1. Search by name\n\n\t\t\t2. Search by ISBN\n\n\t\t\t0. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

while (strlen(opt) != 1 || 0 == isdigit(opt[0]) || option > 2 || option < 0)

{

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tISSUE");

printf("%.100s", "\n........................................................................................................................");

printf("\n\n\t\t\t\tERROR!\n\t\tPlease select correct option!\n\n\n\t\t\t1. Search by name\n\n\t\t\t2. Search by ISBN\n\n\t\t\t0. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

}

}

switch (option)

{

case 1: //When user chooses to search by name

printf("\n\n\t\tEnter name of the book you are going to issue :\t");

gets(nameKey);

int t = searchName(nameKey);

if (t != -1) //If the search is successfull

{

if (book[t].status[0] == 'I')

{

printf("\n\n\n\n\t\tWE ARE SORRY!\n\t\tTHE BOOK IS ALREADY ISSUED\n\n\t\t");

system("pause");

system("cls");

}

else

{

strncpy(book[t].status, "Issued ", 10);

Display(t);

printf("\n\n\n\n\t\tBOOK ISSUED SUCCESSFULLY\n\n");

system("pause");

system("cls");

}

}

else //If the search is unsuccessfull

{

printf("\n\n\t\tThe Book you are searching for DOES NOT EXIST!\n\n\n\n");

system("pause");

system("cls");

}

counter++;

break;

case 2: //If the user chooses to saerch by ISBN

printf("\n\n\t\tEnter ISBN of the book you are going to issue :\t");

gets(IsbnKey);

int s = searchISBN(IsbnKey);

if (s != -1) //If the search is successfull

{

if (book[s].status[0] == 'I')

{

system("cls");

printf("\n\n\n\n\t\tWE ARE SORRY\n\t\tTHE BOOK IS ALREADY ISSUED\n\n\t\t");

system("pause");

system("cls");

}

else

{

strncpy(book[s].status, "Issued ", 10);

Display(s);

printf("\n\n\n\n\t\tBOOK ISSUED SUCCESSFULLY\n\n");

system("pause");

system("cls");

}

}

else //If the search is unsuccessfull

{

printf("\n\n\t\tBOOK NOT FOUND\n\n\n\n");

system("pause");

system("cls");

}

counter++;

break;

case 3:

option = 3;

system("cls");

break;

default:

counter++;

break;

}

}

}

void Receive(void)

{

system("COLOR 8F");

char nameKey[NAMESIZE], IsbnKey[20];

int option;

char opt[10];

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tRECEIVE");

printf("%.100s", "\n........................................................................................................................");

printf("\n\t\t Please select how do want to search\n\n\t\t\t1. Search by name\n\n\t\t\t2. Search by ISBN\n\n\t\t\t0. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

while (strlen(opt) != 1 || 0 == isdigit(opt[0]) || option > 2 || option < 0)

{

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tRECEIVE");

printf("%.100s", "\n........................................................................................................................");

printf("\n\n\t\t\t\tERROR!\n\n\t\tPlease select correct option!\n\n\t\t\t1. Search by name\n\n\t\t\t2. Search by ISBN\n\n\t\t\t0. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

}

int counter = 0;

while (option != 0)

{

if (counter != 0)

{

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tRECEIVE");

printf("%.100s", "\n........................................................................................................................");

printf("\n\t\t Please select how do you want to search\n\n\t\t\t1. Search by name\n\n\t\t\t2. Search by ISBN\n\n\t\t\t0. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

while (strlen(opt) != 1 || 0 == isdigit(opt[0]) || option > 2 || option < 0)

{

system("cls");

printf("%.100s", "........................................................................................................................");

printf("%40s", "\n\t\t\tRECEIVE");

printf("%.100s", "\n........................................................................................................................");

printf("\n\n\t\t\t\tERROR!\n\t\tPlease select correct option!\n\n\n\t\t\t1. Search by name\n\n\t\t\t2. Search by ISBN\n\n\t\t\t0. Exit\n\n\t\tOption:\t\t");

gets(opt);

sscanf(opt, "%d", &option);

}

}

switch (option)

{

case 1: //When user chooses to search by name

printf("\n\n\t\tEnter name of the book you are going to receive:\t");

gets(nameKey);

int t = searchName(nameKey);

if (t != -1) //If the search is successfull

{

if (book[t].status[0] == 'A')

{

printf("\n\n\n\n\t\tTHE BOOK YOU ARE TRYNG TO RECEIVE IS ALREADY IN THE LIBRARY\n\n\t\t");

system("pause");

system("cls");

}

else

{

strncpy(book[t].status, "Available ", 10);

Display(t);

printf("\n\n\n\n\t\tBOOK RECEIVED SUCCESSFULLY\n\n");

system("pause");

system("cls");

}

}

else //If the search is unsuccessfull

{

printf("\n\n\t\tThe Book you are searching for DOES NOT EXIST!\n\n\n\n");

system("pause");

system("cls");

}

counter++;

break;

case 2: //If the user chooses to saerch by ISBN

printf("\n\n\t\tEnter ISBN of the book you are going to receive :\t");

gets(IsbnKey);

int s = searchISBN(IsbnKey);

if (s != -1) //If the search is successfull

{

if (book[s].status[0] == 'A')

{

printf("\n\n\n\n\t\tTHE BOOK YOU ARE TRYNG TO RECEIVE IS ALREADY IN THE LIBRARY\n\n\t\t");

system("pause");

system("cls");

}

else

{

strncpy(book[s].status, "Issued ", 10);

Display(s);

printf("\n\n\n\n\t\tBOOK RECEIVED SUCCESSFULLY\n\n");

system("pause");

system("cls");

}

}

else //If the search is unsuccessfull

{

printf("\n\n\t\tBOOK NOT FOUND\n\n\n\n");

system("pause");

system("cls");

}

counter++;

break;

case 3://exit

option = 3;

system("cls");

break;

default:

counter++;

break;

}

}

}

**END**