

```
#include<windows.h>
#include<stdio.h>
#include<conio.h>
#include <stdlib.h>
#include<string.h>          //contains strcmp(),strcpy(),strlen(),etc
#include<ctype.h>           //contains toupper(), tolower(),etc
#include<dos.h>             //contains _dos_getdate
#include<time.h>
```

```
char catagories[][15]={"Novels","Short Story","Magzines","Newspaper","Academics","Miscellaneous"};
```

```
void returnfunc(void);
```

```
void mainmenu(void);
```

```
void addbooks(void);
```

```
void deletebooks(void);
```

```
void editbooks(void);
```

```
void searchbooks(void);
```

```
void purchasebooks(void);
```

```
void viewbooks(void);
```

```
int getdata();
```

```
int checkid(int);
```

```
int t(void);
```

```
void Password();
```

```
//list of global files that can be acceed form anywhere in program
```

```
FILE *fp,*ft,*fs;
```

```
COORD coord = {0, 0};
```

```
//list of global variable
```

```
int s;

char findbook;

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


void gotoxy (int x, int y)
{
    coord.X = x; coord.Y = y; // X and Y coordinates
    SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE), coord);
}


struct meroDate
{
    int mm,dd,yy;
};

struct books
{
    int id;
    char stname[20];
    char name[20];
    char Author[20];
    int quantity;
    float Price;
    int count;
    int rackno;
    char *cat;
    struct meroDate purchased;
};

struct books a;

int main()
```

```

{
    Password();

    getch();

    return 0;

}

////////////////////////////////////

void mainmenu()
{
    system("cls");

    int i;

    gotoxy(20,3);

    printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2 MAIN MENU
\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

    gotoxy(20,5);

    printf("\xDB\xDB\xDB\xDB\xB2 1. Add Books  ");

    gotoxy(20,7);

    printf("\xDB\xDB\xDB\xDB\xB2 2. Delete books");

    gotoxy(20,9);

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

    gotoxy(20,11);

    printf("\xDB\xDB\xDB\xDB\xB2 4. Buy  Books");

    gotoxy(20,13);

    printf("\xDB\xDB\xDB\xDB\xB2 5. View Book list");

    gotoxy(20,15);

    printf("\xDB\xDB\xDB\xDB\xB2 6. Edit Book's Record");

    gotoxy(20,17);

    printf("\xDB\xDB\xDB\xDB\xB2 7. Close Application");

    gotoxy(20,19);

```



```

gotoxy(16,3);
printf("\tBOOKSHOP MANAGEMENT SYSTEM");
gotoxy(16,4);
printf("\t MINI PROJECT BY GAURAV KUMAR");
gotoxy(16,5);
printf("\tRK1612A22");
exit(0);
}
default:
{
gotoxy(10,23);
printf("\aWrong Entry!!Please re-entered correct option");
if(getch())
mainmenu();
}

}

}

////////////////////////////////////
////////

void addbooks(void)
{
system("cls");
int i;
gotoxy(20,5);
printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2SELECT
CATEGORIES\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");
gotoxy(20,7);
printf("\xDB\xDB\xDB\xDB\xB2 1. Novels");

```

[illegible]

```

gotoxy(21,14);
printf("The record is sucessfully saved");
gotoxy(21,15);
printf("Save any more?(Y / N):");
if(getch()=='n')
mainmenu();
else
system("cls");
addbooks();
}
}
////////////////////////////////////
void deletebooks()
{
system("cls");
int d;
char another='y';
while(another=='y') //infinite loop
{
system("cls");
gotoxy(10,5);
printf("Enter the Book ID to delete:");
scanf("%d",&d);
fp=fopen("Data.dat","rb+");
rewind(fp);
while(fread(&a,sizeof(a),1,fp)==1)
{
if(a.id==d)
{

```

```
gotoxy(10,7);
printf("The book record is available");
gotoxy(10,8);
printf("Book name is %s",a.name);
gotoxy(10,9);
printf("Rack No. is %d",a.rackno);
findbook='t';
}
}
```

```
if(findbook!='t')
{
gotoxy(10,10);
printf("No record is found modify the search");
if(getch())
mainmenu();
}
```

```
if(findbook=='t' )
{
gotoxy(10,9);
printf("Do you want to delete it?(Y/N):");

        if(getch()=='y')
        {
            ft=fopen("test.dat","w+");
            rewind(fp);
            while(fread(&a,sizeof(a),1,fp)==1)
            {
```



```
if(a.id!=d)
{
fseek(ft,0,SEEK_CUR);
fwrite(&a,sizeof(a),0,ft);
}
}
fclose(ft);
fclose(fp);
remove("Data.dat");
rename("test.dat","Data.dat");
fp=fopen("Data.dat","r+");
if(findbook=='t')
{
gotoxy(10,10);
printf("The record is successfully deleted");
gotoxy(10,11);
printf("Delete another record?(Y/N)");
}
}
else
mainmenu();
fflush(stdin);
another=getch();
}
}
gotoxy(10,15);
mainmenu();
}
```

```
void searchbooks()
{
system("cls");

int d;

printf("*****Search Books*****");

gotoxy(20,10);

printf("\xDB\xDB\xDB\xB2 1. Search By ID");

gotoxy(20,14);

printf("\xDB\xDB\xDB\xB2 2. Search By Name");

gotoxy( 15,20);

printf("Enter Your Choice");

fp=fopen("Data.dat","rb+");

rewind(fp);

switch(getch())

{

case '1':

{

system("cls");

gotoxy(25,4);

printf("****Search Books By Id****");

gotoxy(20,5);

printf("Enter the book id:");

scanf("%d",&d);

gotoxy(20,7);

printf("Searching.....");

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

{
```

[illegible]

```

gotoxy(20,8);
printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");
gotoxy(20,9);printf("\xB2"); gotoxy(38,9);printf("\xB2");
gotoxy(20,10);
printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");
gotoxy(22,9);printf("\aNo Record Found");
}
gotoxy(20,17);
printf("Try another search?(Y/N)");
if(getch()=='y')
searchbooks();
else
mainmenu();
break;
}
case '2':
{
char s[15];
system("cls");
gotoxy(25,4);
printf("****Search Books By Name****");
gotoxy(20,5);
printf("Enter Book Name:");
scanf("%s",s);
int d=0;
while(fread(&a,sizeof(a),1,fp)==1)
{
if(strcmp(a.name,(s))==0)
{

```

[illegible]

```

gotoxy(20,10);
printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");
gotoxy(22,9);printf("\aNo Record Found");
}

gotoxy(20,17);
printf("Try another search?(Y/N)");
if(getch()=='y')
searchbooks();
else
mainmenu();
break;
}

default :
getch();
searchbooks();
}

fclose(fp);
}

////////////////////////////////////

void purchasebooks(void)
{
int t;

system("cls");
printf("*****PURCHASE SECTION*****");
gotoxy(10,5);
printf("\xDB\xDB\xDB\xDB\xB2 1. Buy a Book");
gotoxy(10,7);
printf("Enter a Choice:");

```

```

switch(getch())
{
case '1':
{
system("cls");
int c=0;
char another='y';
while(another=='y')
{
system("cls");
gotoxy(15,4);
printf("***Buying Book section***");
gotoxy(10,6);
printf("Enter the Book Id:");
scanf("%d",&t);
fp=fopen("Data.dat","rb");
fs=fopen("Purchase.dat","ab+");
if(checkid(t)==0)
{
int noOfbook=0;
gotoxy(10,8);
printf("The book record is available");
gotoxy(10,9);
printf("There are %d books in our shop ",a.quantity);
gotoxy(10,10);
printf("The name of book is %s",a.name);
gotoxy(10,11);
printf("Enter name:");
scanf("%s",a.stname);

```

```
gotoxy(10,12);  
printf("ENTER THE NO OF BOOKS TO BE PURCHASED ");  
scanf("%d",&noOfbook);  
gotoxy(10,14);  
printf("YOUR TOTAL AMOUNT IS %d ",noOfbook*(int)(a.Price));  
gotoxy(10,15);  
printf("Press Enter to continue");  
Sleep(5);  
gotoxy(10,16);  
printf("The BOOK of ID %d IS PURCHASED SUCCESSFULLY",a.id);
```

```
fseek(fs,sizeof(a),SEEK_END);  
fwrite(&a,sizeof(a),1,fs);  
fclose(fs);  
c=1;  
}  
if(c==0)  
{  
gotoxy(10,11);  
printf("No record found");  
}  
gotoxy(10,15);  
printf("Purchase any more(Y/N):");  
fflush(stdin);  
another=getche();  
fclose(fp);  
}  
  
break;
```



```

}
default:
gotoxy(10,18);
printf("\aWrong Entry!!");
getch();
purchasebooks();
break;
}
gotoxy(1,30);
returnfunc();
}

////////////////////////////////////
////////////////////////////////////

void viewbooks(void) //show the list of book persists in shop
{
int i=0,j;
system("cls");
gotoxy(1,1);
printf("*****Book List*****");
gotoxy(2,2);
printf(" CATEGORY   ID   BOOK NAME   AUTHOR   QTY   PRICE   RackNo ");
j=4;
fp=fopen("Data.dat","rb");
while(fread(&a,sizeof(a),1,fp)==1)
{
gotoxy(3,j);
printf("%s",a.cat);
gotoxy(16,j);
printf("%d",a.id);

```

```

gotoxy(22,j);
printf("%s",a.name);
gotoxy(36,j);
printf("%s",a.Author);
gotoxy(50,j);
printf("%d",a.quantity);
gotoxy(57,j);
printf("%.2f",a.Price);
gotoxy(69,j);
printf("%d",a.rackno);
printf("\n\n");
j++;
i=i+a.quantity;
}
gotoxy(3,25);
printf("Total Books =%d",i);
fclose(fp);
gotoxy(35,25);
returnfunc();
}

////////////////////////////////////
////////////////////////////////////

void editbooks(void) //edit information about book
{
system("cls");
int c=0;
int d,e;
gotoxy(20,4);
printf("*****Edit Books Section*****");

```

```
char another='y';
while(another=='y')
{
system("cls");
gotoxy(15,6);
printf("Enter Book Id to be edited:");
scanf("%d",&d);
fp=fopen("Data.dat","rb+");
while(fread(&a,sizeof(a),1,fp)==1)
{
if(checkid(d)==0)
{
gotoxy(15,7);
printf("The book is available");
gotoxy(15,8);
printf("The Book ID:%d",a.id);
gotoxy(15,9);
printf("Enter new name:");scanf("%s",a.name);
gotoxy(15,10);
printf("Enter new Author:");scanf("%s",a.Author);
gotoxy(15,11);
printf("Enter new quantity:");scanf("%d",&a.quantity);
gotoxy(15,12);
printf("Enter new price:");scanf("%f",&a.Price);
gotoxy(15,13);
printf("Enter new rackno:");scanf("%d",&a.rackno);
gotoxy(15,14);
printf("The record is modified");
fseek(fp,ftell(fp)-sizeof(a),0);
```

```

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

c=1;
}

if(c==0)
{
gotoxy(15,9);
printf("No record found");
}
}

gotoxy(15,16);
printf("Modify another Record?(Y/N)");
fflush(stdin);
another=getch() ;
}

returnfunc();
}

void returnfunc(void)
{
{
printf(" Press ENTER to return to main menu");
}

a:

if(getch()==13) //allow only use of enter
mainmenu();

else

goto a;
}

int getdata()

```

[illegible]

```

scanf("%d",&t);
if(checkid(t) == 0)
{
gotoxy(21,13);
printf("\aThe book id already exists\a");
getch();
mainmenu();
return 0;
}
a.id=t;
gotoxy(21,7);
printf("Book Name:");gotoxy(33,7);
scanf("%s",a.name);
gotoxy(21,8);
printf("Author:");gotoxy(30,8);
scanf("%s",a.Author);
gotoxy(21,9);
printf("Quantity:");gotoxy(31,9);
scanf("%d",&a.quantity);
gotoxy(21,10);
printf("Price:");gotoxy(28,10);
scanf("%f",&a.Price);
gotoxy(21,11);
printf("Rack No:");gotoxy(30,11);
scanf("%d",&a.rackno);
return 1;
}
int checkid(int t) //check whether the book is exist in shop or not
{

```

```

rewind(fp);
while(fread(&a,sizeof(a),1,fp)==1)
if(a.id==t)
return 0; //returns 0 if book exists
return 1; //return 1 if it not
}

int t(void) //for time
{
time_t t;
time(&t);
printf("Date and time:%s\n",ctime(&t));

return 0 ;
}

////////////////////////////////////
////////

void Password(void) //for password option
{

system("cls");
char d[25]="Password Protected";
char ch,pass[10];
int i=0,j;
gotoxy(10,4);
for(j=0;j<20;j++)
{
Sleep(5);
printf("%c",d[j]);
}

```

```
gotoxy(10,10);
gotoxy(15,7);
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)
{

gotoxy(15,9);

printf("Password match");
gotoxy(17,10);
printf("Press any key to countinue.....");
getch();
mainmenu();
}
else
{
gotoxy(15,16);
```



```
printf("\aWarning!! Incorrect Password");  
getch();  
Password();  
}  
}
```