



Library Management System

(Computer Project)

Made By

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Session : 2020-21

Submitted to

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Certificate

This is to certify that the “Library management system” is made by
.....Swarnima.....Roll NoandDivya Chaudhary.....
Roll No Under my supervision and Guidance. This is their
authentic work for the partial fulfillment of computer project work under C.B.S.E. computer
Practical Examination for the session 2020-21.

(Rakesh Kumar)

Acknowledgement

This is the right time to express our gratitude towards our teachers/ mentor for their constant support and guidance. These are only few words which we have written here to show our respect to our teachers.

Though they will not among us after this session but their lesson will always guide us in future also.

This project is our , but it is their inspiration and constant push that we are now able to compile the whole knowledge we learnt through out 11 & 12, in the form of this project.

Last but not least sir we would love to say thank you.

Yours Sincerely

[Swarnima & Divya]

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About Python

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together.

Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse.

The Python interpreter and the extensive standard library are available in source or binary form without charge for all major platforms, and can be freely distributed.

Often, programmers fall in love with Python because of the increased productivity it provides. Since there is no compilation step, the edit-test-debug cycle is incredibly fast.

Debugging Python programs is easy: a bug or bad input will never cause a segmentation fault. Instead, when the interpreter discovers an error, it raises an exception. When the program doesn't catch the exception, the interpreter prints a stack trace.

A source level debugger allows inspection of local and global variables, evaluation of arbitrary expressions, setting breakpoints, stepping through the code a line at a time, and so on. The debugger is written in Python itself, testifying to Python's introspective power.

On the other hand, often the quickest way to debug a program is to add a few print statements to the source: the fast edit-test-debug cycle makes this simple approach very effective.

About Library Management System

Library management is a simple computer program designed to help school library to manage books and members records.

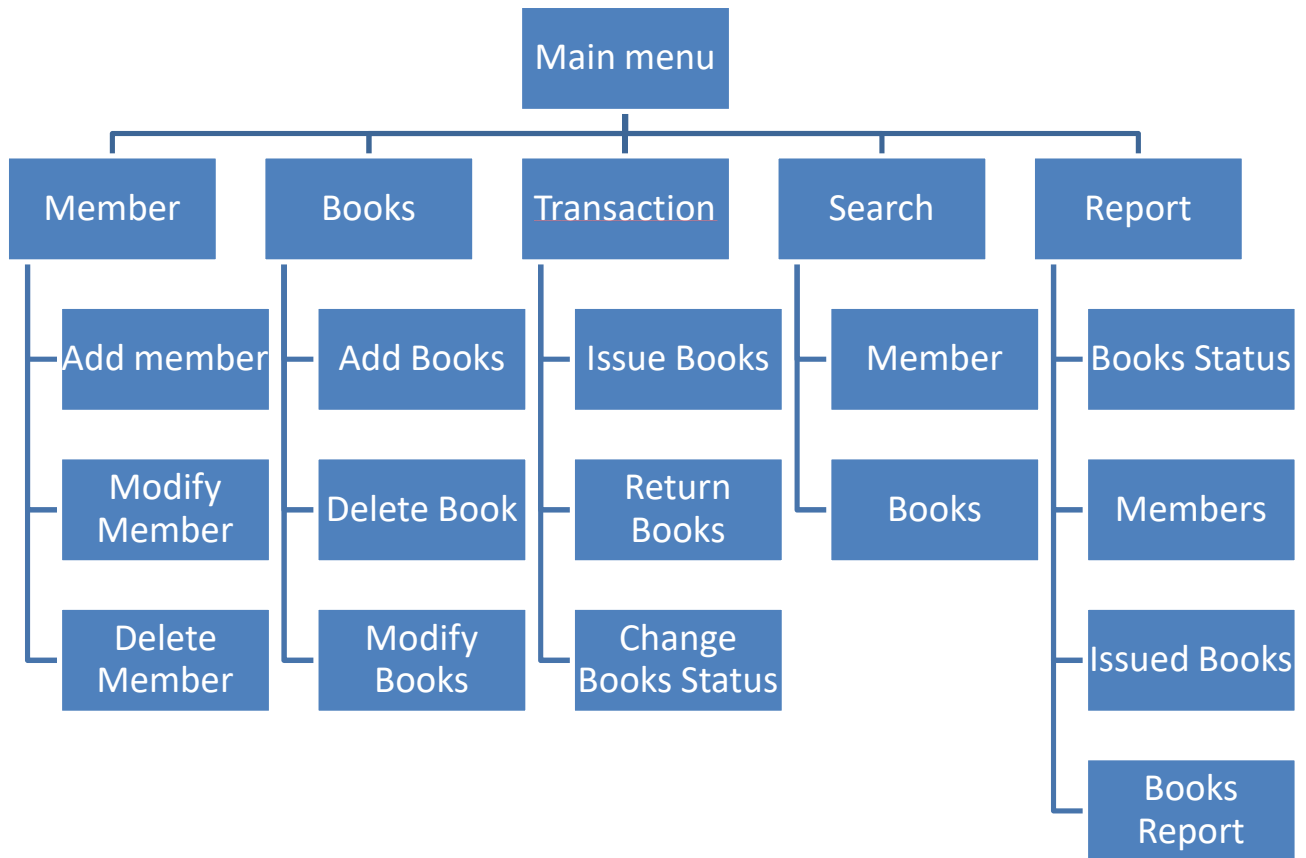
The whole program is designed in this way that you can expand it up to any level. Initially it is used to feed students information and book information along with the transaction status.

This information is recorded in a mysql database. so that this recorded information can be used later on at any stage.

Modification , deletion and searching , reporting facility is given in this project for easy management.

This program is fast and accurate, since it is written in one of the fastest growing programming language ie Python.

Hierarchical diagram of Project



Data Required as Input

Book information

- | | |
|------------------|---|
| • Id | - Unique book Accession Number |
| • Book Title | - Book title |
| • Book Author | - Name of the author(s) of the book |
| • Pages | - Total number of pages in this book |
| • Book Price | - price of the book in INR |
| • Book status | - current book status ie – available, issued, lost,weed out |
| • Book Publisher | - Publisher of the book |
| • Edition | - Edition number of the book |

Student Information

- | | |
|-----------|-----------------------------------|
| • Id | - unique Member id |
| • Name | - full name of the member |
| • Class | - Class and section of the member |
| • Address | - Complete address of the member |
| • Phone | - Phone number or mobile number |
| • Email | - any valid email id |

Output Required

- Books information
 - Member's information
 - Issue books information
 - Book's status report
 - Weed out
 - Lost
 - Available
 - Book in circulation
 - Issue Book
 - Return Book
 - Search
 - Search –Book
 - Search – member
 - Search -Email
-

Hardware & software requirement

Hardware required

- 4 GB RAM
- Intel i3 or equivalent processor or Above Processor
- Mouse
- Keyboard

Software Requirement

- Operating System – Windows 7 and above or any other supported operating system
- Python Interpreter
- Text Editor (Integrated Development Environment) – Visual Studio Code or similar Text Editor

MySQL

Data Tables

Table Structures

```
mysql> desc book;
```

Field	Type	Null	Key	Default	Extra
id	int(10)	NO	PRI	NULL	auto_increment
title	char(60)	YES		NULL	
author	char(50)	YES		NULL	
pages	int(4)	YES		NULL	
price	float(6,2)	YES		NULL	
status	char(10)	YES		NULL	
publisher	char(60)	YES		NULL	
edition	char(15)	YES		NULL	

```
8 rows in set (0.00 sec)
```

```
mysql> desc member;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
name	char(30)	YES		NULL	
class	char(15)	YES		NULL	
address	char(100)	YES		NULL	
phone	char(15)	YES		NULL	
email	char(60)	YES		NULL	

```
6 rows in set (0.00 sec)
```

```
mysql> desc transaction;
```

Field	Type	Null	Key	Default	Extra
tid	int(11)	NO	PRI	NULL	auto_increment
b_id	int(11)	YES		NULL	
m_id	int(11)	YES		NULL	
doi	date	YES		NULL	
dor	date	YES		NULL	
fine	float(5,2)	YES		NULL	

6 rows in set (0.01 sec)

Data in these Tables.

```
mysql> select * from book;
```

id	title	author	pages	price	status	publisher	edition
1	Let us Python	yashwant kanetkar	879	150.00	available	bpb	10
2	Let us Python	rakesh kumar	350	250.00	issue	Deewan international	1
3	Connect Dots	rashmi bansal	256	200.00	issue	penguin india	1
4	Connect Dots	rashmi bansal	256	200.00	available	penguin india	1
5	Connect Dots	rashmi bansal	256	200.00	available	penguin india	1
6	Connect Dots	rashmi bansal	256	200.00	stolen	penguin india	1
7	Connect Dots	rashmi bansal	256	200.00	stolen	penguin india	1
8	Django 2 By Example	Mario Brothers	565	450.00	lost	BPB	2
9	Django 2 By Example	Mario Brothers	565	450.00	available	BPB	2
10	Django 2 By Example	Mario Brothers	565	450.00	weed-out	BPB	2
11	Bg Django 2.0 application	Tom Ayuth	345	450.00	available	Tata McGraw Hill	2
12	Bg Django 2.0 application	Tom Ayuth	345	450.00	available	Tata McGraw Hill	2
13	Bg Django 2.0 application	Tom Ayuth	345	450.00	available	Tata McGraw Hill	2
14	The lean startup	Peter thiel	345	190.00	lost	penguin india	2
15	The lean startup	Peter thiel	345	190.00	available	penguin india	2
16	The lean startup	Peter thiel	345	190.00	available	penguin india	2
17	The lean startup	Peter thiel	345	190.00	available	penguin india	2
18	The lean startup	Peter thiel	345	190.00	available	penguin india	2
19	Tkinter GUI application	rakesh kumar	289	450.00	available	BPB	2
20	Tkinter GUI application	rakesh kumar	289	450.00	available	BPB	2

20 rows in set (0.00 sec)

```
mysql> select * from member;
```

id	name	class	address	phone	email
1	ram lal	12 A	cf-4 brij vihar	987177171	rakesh@cbsetoday.com
2	samriddhi	4 B	f-124 surya nagar	2345677890	sam@gmail.com
3	kamal aggarwal	10 A	cf-9 brij vihar	987383843	kamal@mail.com
4	rakshit	10-A	f-32 surya nagar	65775575	rakshit@gmail.com
5	anuj sharma	12A	f-343 vivek vihar	45646455	anujsharma@gmail.com

5 rows in set (0.00 sec)

```
mysql> select * from transaction;
```

tid	b_id	m_id	doi	dor	fine
9	1	1	2020-12-06	2020-12-06	0.01
10	2	2	2020-12-06	2020-12-06	0.01
11	1	2	2020-12-06	2020-12-06	0.01
12	1	1	2020-12-06	2020-12-06	0.01
13	1	1	2020-12-06	2020-12-06	0.01
14	1	1	2020-12-06	2020-12-06	0.00
15	1	1	2020-12-06	2020-12-06	0.00
16	4	4	2020-12-06	2020-12-06	0.00
17	3	4	2020-12-17	NULL	NULL

```
9 rows in set (0.00 sec)
```

Python Program

```

#   project name      : Library management system

#   made by           : Swarnima and Divya
#   session            : 2020-21
#   roll no           :

import mysql.connector
from datetime import date
from prettytable import PrettyTable

fine_per_day =1.0  #global variable

def clear():
    for _ in range(65):
        print()

def add_book():
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()

    title = input('Enter Book Title :')
    author = input('Enter Book Author : ')
    publisher = input('Enter Book Publisher : ')
    pages = input('Enter Book Pages : ')
    price = input('Enter Book Price : ')
    edition = input('Enter Book Edition : ')
    copies = int(input('Enter copies : '))
    sql = 'insert into book(title,author,price,pages,publisher,edition,status) values (' + \
        title + ',' + author + ',' + price + ',' + pages + ',' + publisher + ',' + edition + \
        ', "available");'
    #sql2 = 'insert into transaction(dot,qty,type) values ('+str(today)+' ','+qty+ \
    ', "purchase");'
    #print(sql)
    for _ in range(0,copies):
        cursor.execute(sql)
    conn.close()
    print('\n\nNew Book added successfully')
    wait = input('\n\n\n Press any key to continue....')

def add_member():
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()

    name = input('Enter Member Name :')
    clas = input('Enter Member Class & Section : ')
    address = input('Enter Member Address : ')
    phone = input('Enter Member Phone : ')

```



```

email = input('Enter Member Email : ')

sql = 'insert into member(name,class,address,phone,email) values ( "' + \
      name + '", "' + clas + '", "' + address + '", "' + phone + \
      '" , "' + email + '");'
#sql2 = 'insert into transaction(dot,qty,type) values ("'+str(today)+'",'+qty+'
,"purchase");'
#print(sql)

cursor.execute(sql)
conn.close()
print('\n\nNew Member added successfully')
wait = input('\n\n\nPress any key to continue....')

def modify_book():
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()
    clear()
    print('Modify BOOK Details Screen ')
    print('-'*120)
    print('\n1. Book Title')
    print('\n2. Book Author')
    print('\n3. Book Publisher')
    print('\n4. Book Pages')
    print('\n5. Book Price')
    print('\n6. Book Edition')
    print('\n\n')
    choice = int(input('Enter your choice :'))
    field = ''
    if choice == 1:
        field = 'title'
    if choice == 2:
        field = 'author'
    if choice == 3:
        field = 'publisher'
    if choice == 4:
        field = 'pages'
    if choice == 5:
        field = 'price'
    book_id = input('Enter Book ID :')
    value = input('Enter new value :')
    if field == 'pages' or field == 'price':
        sql = 'update book set ' + field + ' = '+value+' where id = '+book_id+';'
    else:
        sql = 'update book set ' + field + ' = "' + value + '" where id = '+book_id+'
; '
    #print(sql)
    cursor.execute(sql)
    print('\n\n\nBook details Updated.....')

```

```
conn.close()
wait = input('\n\n\n Press any key to continue....')
```

```
def modify_member():
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()
    clear()
    print('Modify Memeber Information Screen ')
    print('-'*120)
    print('\n1. Name')
    print('\n2. Class')
    print('\n3. address')
    print('\n4. Phone')
    print('\n5. Emaile')
    print('\n\n')
    choice = int(input('Enter your choice :'))
    field = ''
    if choice == 1:
        field = 'name'
    if choice == 2:
        field = 'class'
    if choice == 3:
        field = 'address'
    if choice == 4:
        field = 'phone'
    if choice == 5:
        field = 'email'
    mem_id = input('Enter member ID :')
    value = input('Enter new value :')
    sql = 'update member set ' + field + ' = "' + value + '" where id = ' + mem_id + ';'
    #print(sql)
    cursor.execute(sql)
    print('Member details Updated.....')
    conn.close()
    wait = input('\n\n\n Press any key to continue....')
```

```
def mem_issue_status(mem_id):
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()
    sql = 'select * from transaction where m_id = ' + mem_id + ' and dor is NULL;'
    #print(sql)
    cursor.execute(sql)
    results = cursor.fetchall()
    return results
```

```
def book_status(book_id):
    conn = mysql.connector.connect(
```

```

        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()
    sql = 'select * from book where id =' + book_id + ';'
    cursor.execute(sql)
    result = cursor.fetchone()
    return result[5]

def book_issue_status(book_id, mem_id):
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()
    sql = 'select * from transaction where b_id =' + book_id + ' and m_id =' + mem_id + ' and doi is NULL;'
    cursor.execute(sql)
    result = cursor.fetchone()
    return result

def issue_book():
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()

    clear()
    print('\n BOOK ISSUE SCREEN ')
    print('-'*120)
    book_id = input('Enter Book ID : ')
    mem_id = input('Enter Member ID :')

    result = book_status(book_id)
    result1 = mem_issue_status(mem_id)
    #print(result1)
    today = date.today()
    if len(result1) == 0:
        if result == 'available':
            sql = 'insert into transaction(b_id, m_id, doi) values(' + book_id + ',' + mem_id + ',' + str(today) + ');'
            sql_book = 'update book set status="issue" where id =' + book_id + ';'
            cursor.execute(sql)
            cursor.execute(sql_book)
            print('\n\n\n Book issued successfully')
        else:
            print('\n\n\n Book is not available for ISSUE... Current status :', result1)
    else:
        if len(result1) < 1:
            sql = 'insert into transaction(b_id, m_id, doi) values(' + \
                book_id + ',' + mem_id + ',' + str(today) + ');'
            sql_book = 'update book set status="issue" where id =' + book_id + ';'
            #print(len(result))
            cursor.execute(sql)
            cursor.execute(sql_book)

```

```

        print('\n\n\n Book issued successfully')
    else:
        print('\n\nMember already have book from the Library')
    #print(result)

conn.close()
wait = input('\n\n\n Press any key to continue....')

def return_book():
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()
    global fine_per_day
    clear()
    print('\n BOOK RETURN SCREEN ')
    print('-'*120)
    book_id = input('Enter Book ID : ')
    mem_id = input('Enter Member ID :')
    today = date.today()
    result = book_issue_status(book_id, mem_id)
    if result == None:
        print('Book was not issued...Check Book Id and Member ID again..')
    else:
        sql = 'update book set status = "available" where id = '+book_id + ';'
        din = (today - result[3]).days
        fine = din * fine_per_day # fine per data
        sql1 = 'update transaction set dor = "' + str(today) + '" , fine = '+str(fine) + ' '
        where b_id = '+book_id + ' and m_id = '+mem_id + ' and dor is NULL;'

        cursor.execute(sql)
        cursor.execute(sql1)
        print('\n\nBook returned successfully')
    conn.close()
    wait = input('\n\n\n Press any key to continue....')

def search_book(field):
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()

    clear()
    print('\n BOOK SEARCH SCREEN ')
    print('-'*120)
    msg = 'Enter ' + field + ' Value : '
    title = input(msg)
    sql = 'select * from book where ' + field + ' like "%'+ title + '%"'
    cursor.execute(sql)
    records = cursor.fetchall()
    clear()
    print('Search Result for :', field, ' : ' , title)
    print('-'*120)
    for record in records:

```

```

        print(record)
    conn.close()
    wait = input('\n\n\n Press any key to continue....')

def search_menu():
    while True:
        clear()
        print(' S E A R C H   M E N U ')
        print("\n1.  Book Title")
        print('\n2.  Book Author')
        print('\n3.  Publisher')
        print('\n4.  Exit to main Menu')
        print('\n\n')
        choice = int(input('Enter your choice ....: '))
        field = ''
        if choice == 1:
            field='title'
        if choice == 2:
            field = 'author'
        if choice == 3:
            field = 'publisher'
        if choice == 4:
            break
        search_book(field)

def reprot_book_list():
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()

    clear()
    print('\n REPORT - BOOK TITLES ')
    print('-'*120)
    sql = 'select * from book'
    cursor.execute(sql)
    records = cursor.fetchall()
    for record in records:
        print(record)
    conn.close()
    wait = input('\n\n\nPress any key to continue.....')

def report_issued_books():
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()

    clear()
    print('\n REPORT - BOOK TITLES - Issued')
    print('-'*120)
    sql = 'select * from book where status = "issue";'

```

```

cursor.execute(sql)
records = cursor.fetchall()
for record in records:
    print(record)
conn.close()
wait = input('\n\nPress any key to continue.....')

```

```

def report_available_books():
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()

    clear()
    print('\n REPORT - BOOK TITLES - Available')
    print('-'*120)
    sql = 'select * from book where status = "available";'
    cursor.execute(sql)
    records = cursor.fetchall()
    for record in records:
        print(record)
    conn.close()
    wait = input('\n\nPress any key to continue.....')

```

```

def report_weed_out_books():
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()

    clear()
    print('\n REPORT - BOOK TITLES - Weed Out')
    print('-'*120)
    sql = 'select * from book where status = "weed-out";'
    cursor.execute(sql)
    records = cursor.fetchall()
    for record in records:
        print(record)
    conn.close()
    wait = input('\n\nPress any key to continue.....')

```

```

def report_stolen_books():
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()

    clear()
    print('\n REPORT - BOOK TITLES - Stolen')
    print('-'*120)
    sql = 'select * from book where status = "stolen";'
    cursor.execute(sql)

```

```

records = cursor.fetchall()
for record in records:
    print(record)
conn.close()
wait = input('\n\nPress any key to continue.....')

def report_lost_books():
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()

    clear()
    print('\n REPORT - BOOK TITLES - lost')
    print('-'*120)
    sql = 'select * from book where status = "lost";'
    cursor.execute(sql)
    records = cursor.fetchall()
    for record in records:
        print(record)
    conn.close()
    wait = input('\n\nPress any key to continue.....')

def report_member_list():
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()

    clear()
    print('\n REPORT - Members List ')
    print('-'*120)
    sql = 'select * from member'
    cursor.execute(sql)
    records = cursor.fetchall()
    for record in records:
        print(record)
    conn.close()
    wait = input('\n\nPress any key to continue.....')

def report_fine_collection():
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()
    sql = 'select sum(fine) from transaction where dor = "'+str(date.today())+'";'
    cursor.execute(sql)
    result = cursor.fetchone() #always return values in the form of tuple
    clear()
    print('Fine collection')
    print('-'*120)
    print('Total fine collected Today :',result[0])

```

```

print('\n\n\n')
conn.close()
wait = input('\n\n\nPress any key to continue.....')

```

```

def report_menu():
    while True:
        clear()
        print(' R E P O R T      M E N U ')
        print("\n1.  Book List")
        print('\n2.  Member List')
        print('\n3.  Issued Books')
        print('\n4.  Available Books')
        print('\n5.  Weed out Book')
        print('\n6.  Stolen Book')
        print('\n7.  Lost Book')
        print('\n8.  Fine Collection')
        print('\n9.  Exit to main Menu')
        print('\n\n')
        choice = int(input('Enter your choice ....: '))

        if choice == 1:
            reprot_book_list()
        if choice == 2:
            report_member_list()
        if choice == 3:
            report_issued_books()
        if choice == 4:
            report_available_books()
        if choice == 5:
            report_weed_out_books()
        if choice == 6:
            report_stolen_books()
        if choice == 7:
            report_lost_books()
        if choice == 8:
            report_fine_collection()
        if choice == 9:
            break

```

```

def change_book_status(status,book_id):
    conn = mysql.connector.connect(
        host='localhost', database='library', user='root', password='')
    cursor = conn.cursor()
    sql = 'update book set status = "' + status + '" where id = '+book_id + ' and sta
tus ="available"'
    cursor.execute(sql)
    print('Book status changed to ',status)
    print('\n\n\n')
    conn.close()
    wait = input('\n\n\nPress any key to continue.....')

```



```

def special_menu():
    while True:
        clear()
        print(' S P E C I A L      M E N U')
        print("\n1.  Book Stolen")
        print('\n2.  Book Lost')
        print('\n3.  Book Weed out')
        print('\n4.  Return Book')
        print('\n\n')
        choice = int(input('Enter your choice ...: '))
        status=''
        if choice == 1:
            status = 'stolen'
        if choice == 2:
            status = 'lost'
        if choice == 3:
            status = 'weed-out'
        if choice == 4:
            break
        book_id = input('Enter book id :')
        change_book_status(status,book_id)

```

```

def main_menu():
    while True:
        clear()
        print(' L I B R A R Y      M E N U')
        print("\n1.  Add Books")
        print('\n2.  Add Member')
        print('\n3.  Modify Book Information')
        print('\n4.  Modify Student Information')
        print('\n5.  Issue Book')
        print('\n6.  Return Book')
        print('\n7.  Search Meneu')
        print('\n8.  Report Menu')
        print('\n9.  Special Menu')
        print('\n0.  Close application')
        print('\n\n')
        choice = int(input('Enter your choice ...: '))

        if choice == 1:
            add_book()
        if choice == 2:
            add_member()
        if choice == 3:
            modify_book()
        if choice == 4:
            modify_member()
        if choice == 5:
            issue_book()

```

```
if choice == 6:  
    return_book()  
if choice == 7:  
    search_menu()  
if choice == 8:  
    report_menu()  
if choice == 9:  
    special_menu()  
if choice == 0:  
    break
```

```
if __name__ == "__main__":  
    main_menu()
```

Output Screens

Main screen

L I B R A R Y M E N U

1. Add Books
2. Add Member
3. Modify Book Information
4. Modify Student Information
5. Issue Book
6. Return Book
7. Search Meneu
8. Report Menu
9. Special Menu
0. Close application

Enter your choice ...:

Search Menu Screen

S E A R C H M E N U

1. Book Title
2. Book Author
3. Publisher
4. Exit to main Menu

Enter your choice ...: █

Report Screen

R E P O R T M E N U

1. Book List
2. Member List
3. Issued Books
4. Available Books
5. Weed out Book
6. Stolen Book
7. Lost Book
8. Fine Collection
9. Exit to main Menu

Enter your choice ...: █

Special Menu Screen

S P E C I A L M E N U

1. Book Stolen
2. Book Lost
3. Book Weed out
4. Return Book

Enter your choice ...: █

Add New Book

```
Enter your choice ...: 1
Enter Book Title :The intelligent investor
Enter Book Author : benjamin grahm
Enter Book Publisher : harper
Enter Book Pages : 680
Enter Book Price : 450
Enter Book Edition : 3
Enter copies : 2
```

New Book added successfully

Press any key to continue....■

Add A new Member

```
Enter your choice ...: 2
Enter Member Name :amrita singh
Enter Member Class & Section : 12 B
Enter Member Address : H-123 Chitra Gupta Road Dehli
Enter Member Phone : 4565656
Enter Member Email : amrita@company.com
```

New Member added successfully

Press any key to continue....■

Modify Book Information

Modify BOOK Details Screen

-
1. Book Title
 2. Book Author
 3. Book Publisher
 4. Book Pages
 5. Book Price
 6. Book Edition

Enter your choice :■

Book Issue Screen

```
BOOK ISSUE SCREEN
```

```
-----  
Enter Book ID : 1  
Enter Member ID :1
```

```
Book issued successfully
```

```
Press any key to continue....█
```

Book Return Screen

```
BOOK RETURN SCREEN
```

```
-----  
Enter Book ID : 1  
Enter Member ID :1
```

```
Book returned successfully
```

```
Press any key to continue....█
```

Search Title

```
Search Result for : title : c
```

```
-----  
(3, 'Connect Dots', 'rashmi bansal', 256, 200.0, 'issue', 'penguin india', '1')  
(4, 'Connect Dots', 'rashmi bansal', 256, 200.0, 'available', 'penguin india', '1')  
(5, 'Connect Dots', 'rashmi bansal', 256, 200.0, 'available', 'penguin india', '1')  
(6, 'Connect Dots', 'rashmi bansal', 256, 200.0, 'stolen', 'penguin india', '1')  
(7, 'Connect Dots', 'rashmi bansal', 256, 200.0, 'stolen', 'penguin india', '1')  
(11, 'Bg Django 2.0 application', 'Tom Ayuth', 345, 450.0, 'available', 'Tata McGraw Hill', '2')  
(12, 'Bg Django 2.0 application', 'Tom Ayuth', 345, 450.0, 'available', 'Tata McGraw Hill', '2')  
(13, 'Bg Django 2.0 application', 'Tom Ayuth', 345, 450.0, 'available', 'Tata McGraw Hill', '2')  
(19, 'Tkinter GUI application', 'rakesh kumar', 289, 450.0, 'available', 'BPB', '2')  
(20, 'Tkinter GUI application', 'rakesh kumar', 289, 450.0, 'available', 'BPB', '2')
```

```
Press any key to continue....█
```

Books Report Sample

REPORT - BOOK TITLES

```
(1, 'Let us Python', 'yashwant kanetkar', 879, 150.0, 'available', 'bpb', '10')
(2, 'Let us Python', 'rakesh kumar', 350, 250.0, 'issue', 'Deewan international', '1')
(3, 'Connect Dots', 'rashmi bansal', 256, 200.0, 'issue', 'penguin india', '1')
(4, 'Connect Dots', 'rashmi bansal', 256, 200.0, 'available', 'penguin india', '1')
(5, 'Connect Dots', 'rashmi bansal', 256, 200.0, 'available', 'penguin india', '1')
(6, 'Connect Dots', 'rashmi bansal', 256, 200.0, 'stolen', 'penguin india', '1')
(7, 'Connect Dots', 'rashmi bansal', 256, 200.0, 'stolen', 'penguin india', '1')
(8, 'Django 2 By Example', 'Mario Brothers', 565, 450.0, 'lost', 'BPB', '2')
(9, 'Django 2 By Example', 'Mario Brothers', 565, 450.0, 'available', 'BPB', '2')
(10, 'Django 2 By Example', 'Mario Brothers', 565, 450.0, 'weed-out', 'BPB', '2')
(11, 'Bg Django 2.0 application', 'Tom Ayuth', 345, 450.0, 'available', 'Tata McGraw Hill', '2')
(12, 'Bg Django 2.0 application', 'Tom Ayuth', 345, 450.0, 'available', 'Tata McGraw Hill', '2')
(13, 'Bg Django 2.0 application', 'Tom Ayuth', 345, 450.0, 'available', 'Tata McGraw Hill', '2')
(14, 'The lean startup', 'Peter thiel', 345, 190.0, 'lost', 'penguin india', '2')
(15, 'The lean startup', 'Peter thiel', 345, 190.0, 'available', 'penguin india', '2')
(16, 'The lean startup', 'Peter thiel', 345, 190.0, 'available', 'penguin india', '2')
(17, 'The lean startup', 'Peter thiel', 345, 190.0, 'available', 'penguin india', '2')
(18, 'The lean startup', 'Peter thiel', 345, 190.0, 'available', 'penguin india', '2')
(19, 'Tkinter GUI application', 'rakesh kumar', 289, 450.0, 'available', 'BPB', '2')
(20, 'Tkinter GUI application', 'rakesh kumar', 289, 450.0, 'available', 'BPB', '2')
(21, 'The intelligent investor', 'benjamin grahm', 680, 450.0, 'available', 'harper', '3')
(22, 'The intelligent investor', 'benjamin grahm', 680, 450.0, 'available', 'harper', '3')
```

Press any key to continue.....

Reference

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 1. By – Rakesh Kumar
2. Computer science
 1. By Sumita Arora
3. The art and Science of Computer Project
 1. SitePoint
4. Online reference
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 2. www.about.com
 3. www.programmersheaven.com
 4. www.class-12-computer-project.blogspot.in