

:Project Statement Assignment:

Library Management System

Brief:

You have to build a library management system using Django where an admin can perform CRUD (create, read, update and delete) operations like

- Add a Book
- Update an entry of a book
- Delete a book
- Get all books

Develop web services using Python (Django Framework) and front end technologies which can be used for the front end.

1. Admin Signup:

- a) Insert admin details in tables.
- b) An admin records should be unique based on email, which means duplicates records should not be able to enter in DB.

2. Admin Login:

- a) The Admin can log in based on email and password.

3. Create an entry for Books.

- a) The admin can create a new entry of a book.

4. Retrieve all the books.

- a) Retrieve all the books.

5. Update a book.

- a) The book records should be able to update.

6. Delete a book.

- a) The book record should be deleted

Student View:

1. View all the records of book

Conditions:

1. For Front end, you can use any library / framework to build the UI.
2. Write the documentation for backend code.

3. Use MySQL database to store the data

In [3]: !pip install PyMySQL

Requirement already satisfied: PyMySQL in c:\users\majid aslam\anaconda3\lib\site-packages (1.0.2)

```
In [8]: import mysql.connector as a
con =a.connect(host='localhost',user='root',password='',database='library')
def addbook():
    bn=input("Enter book name")
    c=input("Enter book code")
    d=input("Enter book subject")
    e=input("Enter total book")
    data=(bn,c,d,e)
    sql="insert into addsbook values(%s,%s,%s,%s)"
    c=con.cursor()
    c.execute(sql,data)
    con.commit() # server me data ko update and read karne ke ley
    print(">-----<")
    print("data enter successfully")
    main()

def updatabook():
    n=input("Enter name")
    r=input("Enter registration no")
    co=input("Enter date")
    d=input("Enter barcode")
    a="insert into updatbook values(%s,%s,%s,%s)"
    data=(n,r,co,d)
    c=con.cursor()
    c.execute(a,data)
    con.commit()
    print(">-----<")
    print("book issueto:", n)
    bookup(co,-1)

def bookup(co,u):
    a="select total form addsbook where book_code=%s"
    data=(co)
    c=con.cursor()
    c.execute(a,data)
    myresult=c.fetchone() # row wala data select first number se start hoga
    t=myresult[0] + u
    sql="update addsbook set total =%s where bcode=%s"
    d=(t,co)
    c.execute(sql,d)
    con.coomit()
    main()

def dbook():
    ac=input("enter book code")
    a="delete from addsbook where bcode =%s"
    data =(ac)
    c=con.cursor()
    c.execute(a,data)
    con.commit()
    main()

def dispbook():
    a ="select * from addsbook"
    c=con.cursor()
    c.execute(a)
    myresult=c.fetchall() #total table row store in my result
    for i in myresult:
        print("book name",i[0])
        print("book code",i[1])
        print("total",i[2])
        print("subject",i[3])
        print(">-----<")
    main()

def main():
    print("""
                LIBRARY MANAGER

    1 ADD BOOK
    2 UPDATE BOOK
    3 DELETE BOOK
    4 DISPLAY BOOK
    """)

    choice = input("enter token no")
    print(">-----<")
    if (choice == '1'):
        addbook()
    elif (choice == '2'):
        updatabook()
    elif (choice == '3'):
        bookup()
    elif (choice == '4'):
        dbook()
    elif (choice == '5'):
        dispbook()
    else:
        print("wrong book.....")
        main()

def password():
    ps = input("Enter password")
    if ps == "py123":
        main()
    else:
        print("wrong password")
        password()
password()

def username():
    usern = input("Enter username")
    if usern == "ABID123":
        main()
    else:
        print("wrong username")
        username()
username()
```

```
enter token no5
>-----<
book name jhg
book code 8
total hg
subject 5
>-----<
                LIBRARY MANAGER

    1 ADD BOOK
    2 UPDATE BOOK
    3 DELETE BOOK
    4 DISPLAY BOOK

book name amit agarwal
book code 1234
total chemistry
subject 10
>-----<
                LIBRARY MANAGER

    1 ADD BOOK
    2 UPDATE BOOK
    3 DELETE BOOK
    4 DISPLAY BOOK

Enter passwordpy123
                LIBRARY MANAGER

    1 ADD BOOK
    2 UPDATE BOOK
    3 DELETE BOOK
    4 DISPLAY BOOK

Enter usernameABID123
                LIBRARY MANAGER

    1 ADD BOOK
    2 UPDATE BOOK
    3 DELETE BOOK
    4 DISPLAY BOOK
```

In []: