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Group B: Practical No. 4

Write a program to implement Mongo DB database connectivity with Front End Language(Java) Implement Database navigation operations (add, delete, edit etc.).

Installing Package

In [2]:
```
pip install pymongo
```

```
Requirement already satisfied: pymongo in d:\anaconda3\lib\site-packages (4.5.0)
Requirement already satisfied: dnspython<3.0.0,>=1.16.0 in d:\anaconda3\lib\site-packages (from pymongo) (2.4.2)
Note: you may need to restart the kernel to use updated packages.
```

In [10]:
```
import pymongo
client = pymongo.MongoClient("mongodb://localhost:27017")
db=client["FirstDB"]
collection=db["DB"]
def create_Data():
    pid = int(input("Enter Product ID: "))
    pname = input("Enter Product Name: ")
    price = int(input("Enter Price: "))
    suplier = input("Enter Suplier: ")
    data = {"Pid":pid, "Pname":pname, "Price":price, "Suplier":suplier}
    insert_doc = collection.insert_one(data)
    print(f'Insert document:{insert_doc.inserted_id}')
create_Data()
```

```
Enter Product ID: 101
Enter Product Name: suus
Enter Price: 10003
Enter Suplier: anurag
Insert document:653cb40341eb3964f656eda1
```

In [27]:
```
import pymongo
client = pymongo.MongoClient("mongodb://localhost:27017")
db=client["FirstDB"]
collection=db["DB"]
def create_Data():
    pid = int(input("Enter Product ID: "))
    pname = input("Enter Product Name: ")
    price = int(input("Enter Price: "))
    suplier = input("Enter Suplier: ")
    data = {"Pid":pid, "Pname":pname, "Price":price, "Suplier":suplier}
    insert_doc = collection.insert_one(data)
    print(f'Insert document:{insert_doc.inserted_id}')
#reate_Data()

def read_data():
    p = int(input("Enter Product ID for Find Record: "))
    read_doc = collection.find_one({"Pid":p})
    if read_doc:
        print('Read Dccument')
        print(read_doc)
    else:
        print("doccument not found")
#read_data()

def update_data():
    p = int(input("Enter Product ID: "))
    pn = input("Name: ")
    pprice = int(input("Price: "))
    sp = input("Supplier: ")
    update_comm={"Pid":p}
    newValue = {"$set":{"Pname": p, "Pname": pn, "Price": pprice, "Supplier":sp}}
    result = collection.update_one(update_comm,newValue)
    if result.modified_count>0:
        print("Doccument updated")
    else:
        print("Not Updated")
update_data()
```

```
Enter Product ID: 102
Name: Soss
Price: 1004
Supplier: anurag
Doccument updated
```

Python Code:

```
def create_Data():
    pid = int(input("Enter Product ID: "))
    pname = input("Enter Product Name: ")
    price = int(input("Enter Price: "))
    suplier = input("Enter Suplier: ")
    data = {"Pid":pid, "Pname":pname, "Price":price, "Suplier":suplier}
    insert_doc = collection.insert_one(data)
    print(f'Insert document:{insert_doc.inserted_id}')
# create_Data()
def read_data():
    p = int(input("Enter Product ID for Find Record: "))
    read_doc = collection.find_one({"Pid":p})
    if read_doc:
        print('Read Dccument')
        print(read_doc)
    else:
        print("doccument not found")
# read_data()
def update_data():
    p = int(input("Enter Product ID: "))
    pn = input("Name: ")
    pprice = int(input("Price: "))
    sp = input("Supplier: ")
    update_comm={"Pid":p}
    newValue = {"$set":{"Pname": p, "Pname": pn, "Price": pprice, "Supplier":sp}}
    result = collection.update_one(update_comm,newValue)
    if result.modified_count>0:
        print("Doccument updated")
    else:
        print("Not Updated")
```

```
# update_data()
def delete_data():
    p = int(input("Enter Product ID: "))
    obj = {"Pid":p}
    result = collection.delete_one(obj)
    if result.deleted_count>0:
        print("Record Deleted")
    else:
        print("Record Not Found")
# delete_data()
while True:
    print("Select Your Choice:")
    ch = int(input("\n1. INSERT \n 2. UPDATE \n 3. READ \n  4. DELETE \n 5. EXIT"))
    if ch == 1:
        create_Data()
    elif ch == 2:
        update_data()
    elif ch == 3:
        read_data()
    elif ch == 4:
        delete_data()
    elif ch == 5:
        break;
    else:
        print("Invalid Choice!")
```

Output:

```
Select Your Choice:

1. INSERT
 2. UPDATE
 3. READ
  4. DELETE
 5. EXIT3
Enter Product ID for Find Record: 103
Read Dccument
{'_id': ObjectId('653cbc6f41eb3964f656eda5'), 'Pid': 103, 'Pname': 'rosss', 'Price': 10042, 'Suplier': 'normal'}
Select Your Choice:


1. INSERT
 2. UPDATE
 3. READ
  4. DELETE
 5. EXIT
```