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In [ ]: from pymongo import MongoClient

client = MongoClient("mongodb://localhost:27017/")
myDb = client["ducatSM"]
coll = myDb.student
coll1 = myDb.placed

# Function to add a new admission
def admission(ducat_id, st_name, c_name, duration, status):
    coll.insert_one({"id": ducat_id, "name": st_name, "course": c_name, "duration": duration, "status": status})

# Function to list all students
def total():
    for el in coll.find():
        print(el)

# Function to extend course duration
def extention(ducat_id, duration):
    coll.update_one({"id": ducat_id}, {"$inc": {"duration": duration}})

# Function to mark a student as placed
def placed(ducat_id, name, course):
    coll1.insert_one({"id": ducat_id, "name": name, "course": course})

# Function to check or update course status
def updation(ducat_id):
    for el in coll.find({"id": ducat_id}):
        if el["status"] == "Completed":
            print("Course Completed:")
            print(el)
        elif el["status"] != "Completed":
            print("Course is Incomplete, talk to counselor.")
        else:
            print("Invalid User")

# Function to delete a student record
def delete(ducat_id):
    coll.delete_one({"id": ducat_id})

# Function to update the status of a course
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def updateofStatus(ducat_id, currentStatus):
    coll.update_one({"id": ducat_id}, {"$set": {"status": currentStatus}})

# Function to list all placed students
def placedlist():
    for e1 in coll1.find():
        print(e1)

# Main function with a menu-driven interface
def main():
    while True:
        print("Press 1 for New Admission")
        print("Press 2 for Total Students")
        print("Press 3 for Extension of Course")
        print("Press 4 for Marking a Student as Placed")
        print("Press 5 for Check/Update Course Status")
        print("Press 6 to Delete a Student Record")
        print("Press 7 for Updating Status of a Course")
        print("Press 8 for Placed Students List")
        print("Press 9 to Exit from Database")
        choice = int(input("Enter the Operation: "))

        if choice == 1:
            ducat_id = int(input("Enter ID: "))
            st_name = input("Enter Name: ")
            c_name = input("Enter Course: ")
            duration = int(input("Enter Total Months: "))
            status = input("Enter Status of Course: ")
            admission(ducat_id, st_name, c_name, duration, status)
        elif choice == 2:
            total()
        elif choice == 3:
            ducat_id = int(input("Enter the ID: "))
            duration = int(input("Enter the Duration to Extend: "))
            extention(ducat_id, duration)
        elif choice == 4:
            ducat_id = int(input("Enter ID: "))
            name = input("Enter Name: ")
            course = input("Enter the Course: ")
            placed(ducat_id, name, course)
        elif choice == 5:
            ducat_id = int(input("Enter the ID: "))

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        updation(ducat_id)
    elif choice == 6:
        ducat_id = int(input("Enter ID to Delete: "))
        delete(ducat_id)
    elif choice == 7:
        ducat_id = int(input("Enter the ID: "))
        currentStatus = input("Enter Current Status of the Course: ")
        updateofStatus(ducat_id, currentStatus)
    elif choice == 8:
        placedlist()
    elif choice == 9:
        print("Exiting the Database. Goodbye!")
        break
    else:
        print("Invalid Operation")

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main()
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