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# Python + MongoDB CRUD Operations (Menu-driven)
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from pymongo import MongoClient

# Connect to MongoDB

client = MongoClient("mongodb://localhost:27017/")

db = client["university_db"]      # Database

students = db["students"]        # Collection

print(" Connected to MongoDB successfully!\n")

# Menu-driven program using while loop

while True:

    print("\n===== Student Database Menu =====")

    print("1. Insert Record")

    print("2. Display All Records")

    print("3. Update Record")

    print("4. Delete Record")

    print("5. Exit")

    choice = input("Enter your choice (1-5): ")

    if choice == "1":

        # Insert Record

        name = input("Enter student name: ")

        age = int(input("Enter student age: "))

        dept = input("Enter student department: ")

        student = {"name": name, "age": age, "department": dept}

        students.insert_one(student)

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    print(" Record inserted successfully!")
elif choice == "2":
    # Display All Records
    print("\n↪ Student Records:")
    for s in students.find():
        print(f"ID: {s['_id']} | Name: {s['name']} | Age: {s['age']} | Department: {s['department']}")
elif choice == "3":
    # Update Record
    name = input("Enter the name of the student to update: ")
    new_age = int(input("Enter new age: "))
    new_dept = input("Enter new department: ")

    result = students.update_one(
        {"name": name},
        {"$set": {"age": new_age, "department": new_dept}}
    )
    if result.matched_count > 0:
        print(" Record updated successfully!")
    else:
        print(" Student not found!")
elif choice == "4":
    # Delete Record
    name = input("Enter the name of the student to delete: ")
    result = students.delete_one({"name": name})
    if result.deleted_count > 0:

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        print(" Record deleted successfully!")
    else:
        print(" Student not found!")
elif choice == "5":
    # Exit
    print(" Exiting program...")
    client.close()
    break
else:
    print(" Invalid choice! Please enter a number from 1 to 5.")
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