package mongo;

import java.util.Scanner;

import com.mongodb.client.\*;

import com.mongodb.MongoClient;

import org.bson.Document;

public class mongo {

public static void main(String[] args) {

MongoClient client = new MongoClient("127.0.0.1", 27017);

System.out.println("Connected to DB");

MongoDatabase db = client.getDatabase("31380\_db");

MongoCollection<Document> collection = db.getCollection("sampleCollection");

Scanner sc = new Scanner(System.in);

while (true) {

System.out.println("Menu:");

System.out.println("1. Create");

System.out.println("2. Read");

System.out.println("3. Update");

System.out.println("4. Delete");

System.out.println("5. Exit");

System.out.print("Enter your choice: ");

int choice = sc.nextInt();

switch (choice) {

case 1:

System.out.print("Enter name: ");

String name = sc.next();

System.out.print("Enter age: ");

int age = sc.nextInt();

System.out.print("Enter city: ");

String city = sc.next();

Document newDoc = new Document("name", name).append("age", age).append("city", city);

collection.insertOne(newDoc);

System.out.println("Document inserted successfully");

break;

case 2:

System.out.println("Documents in collection:");

for (Document doc : collection.find()) {

System.out.println(doc.toJson());

}

break;

case 3:

System.out.print("Enter the name of the document to update: ");

String updateName = sc.next();

System.out.print("Enter the new age: ");

int newAge = sc.nextInt();

System.out.print("Enter the new city: ");

String newCity = sc.next();

Document filter = new Document("name", updateName);

Document update = new Document("$set", new Document("age", newAge).append("city", newCity));

collection.updateOne(filter, update);

System.out.println("Document updated successfully");

break;

case 4:

System.out.print("Enter the name of the document to delete: ");

String deleteName = sc.next();

Document deleteFilter = new Document("name", deleteName);

collection.deleteOne(deleteFilter);

System.out.println("Document deleted successfully");

break;

case 5:

System.out.println("Exiting...");

client.close();

sc.close();

return;

default:

System.out.println("Invalid choice! Please try again.");

}

System.out.print("Continue? (y/n): ");

String ans = sc.next();

if (ans.equalsIgnoreCase("n")) break;

}

sc.close();

client.close();

}

}



