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

Program Code:

```
import java.net.UnknownHostException;
import java.util.Scanner;
import com.mongodb.*;
public class DatabaseConnectivity { private
static void choice_input(){
System.out.println("\n1.insert data into database\n2.update
database
documents\n3.delete database documents\n4.show database
collections\n5.Exit");
}
public static void main(String[] args) {
String key, value;
Scanner scanner = new Scanner(System.in);
int choice;
try { //Connection
Mongo mongo = new Mongo("localhost", 27017);
DB db = mongo.getDB("myDb");
DBCollection collection = db.getCollection("dummyColl");
do{ choice_input();
System.out.println("Enter your choice: ");
choice = scanner.nextInt();switch (choice){
case 1:
BasicDBObject document = new BasicDBObject();
String ch; do{
System.out.println("Enter key: ");
key = scanner.next();
System.out.println("Enter value: ");
value= scanner.next();
```

```
document.put(key, value);
System.out.println("Do you want to enter more(y/n)? ");
 ch=scanner.next(); }
while (!ch.equals("n"));
collection.insert(document);
break;
case 2:
BasicDBObject searchObj = new BasicDBObject();
System.out.println("Enter searched key: ");
key = scanner.next();
System.out.println("Enter searched value: ");
value = scanner.next(); searchObj.put(key, value);
BasicDBObject newObj = new BasicDBObject();
System.out.println("Enter new key: ");
key = scanner.next();
System.out.println("Enter new value: ");
value = scanner.next(); newObj.put(key,
value);
collection.update(searchObj, newObj);
break;
case 3:
System.out.println("Enter removable key: ");
key = scanner.next();
System.out.println("Enter removable value: ");
 value = scanner.next();
BasicDBObject removableObj = new BasicDBObject();
removableObj.put(key, value); collection.remove(removableObj);
break;
case 4:
DBCursor cursorDoc = collection.find();
while (cursorDoc.hasNext()) {
System.out.println(cursorDoc.next());
} break;
case 5:
System.exit(0)
; break;
}
} while(choice != 6);
} catch (UnknownHostException | MongoException e) {
e.printStackTrace();
}
}
```

}
---------- **Output** ----------
1.insert data into database
2.update database documents
3.delete database documents
4.show database collections
5.Exit
Enter your choice: 1
Enter key:2
Enter value:
harish
Do you want to enter more(y/n)? N
1.insert data into database
2.update database documents
3.delete database documents
4.show database collections
5.Exit
Enter your choice:
2
Enter searched key:
2
Enter searched value:
harish
Enter new key:
1
Enter new value:
Sam
1.insert data into database
2.update database documents
3.delete database documents
4.show database collections
5.Exit
Enter your choice:
4{
"_id" : { "$oid" : "5bb453bce4b0283ac9d3205d"} , "1" : "sam"}
1.insert data into database
2.update database documents
3.delete database documents
4.show database collections
5.Exit
Enter your choice: 3
Enter removable key:

3
Enter removable value: hari
1.insert data into database
2.update database documents
3.delete database documents
4.show database collections
5.Exit
Enter your choice:
4{
"_id" : { "$oid" : "5bb453bce4b0283ac9d3205d"} , "1" : "sam"}
1.insert data into database
2.update database documents
3.delete database documents
4.show database collections
5.Exit
Enter your choice:
5