

```
1  import java.util.Scanner;
2  import java.util.InputMismatchException;
3  import java.net.UnknownHostException;
4  import java.util.Date;
5  import com.mongodb.BasicDBObject;
6  import com.mongodb.DB;
7  import com.mongodb.DBCollection;
8  import com.mongodb.DBCursor;
9  import com.mongodb.DBObject;
10 import com.mongodb.MongoClient;
11 import com.mongodb.MongoException;
12
13 public class MongoApp {
14     public static void main(String[] args) {
15         Scanner scanner = new Scanner(System.in);
16         try {
17             /**** Connect to MongoDB ****/
18             MongoClient mongo = new MongoClient("localhost", 27017);
19             /**** Get database ****/
20             // if database doesn't exists, MongoDB will create it for you
21             DB db = mongo.getDB("testdb");
22             /**** Get collection / table from 'testdb' ****/
23             // if collection doesn't exists, MongoDB will create it for you
24             DBCollection table = db.getCollection("user");
25             // document fields
26             String id="";
27             String name="";
28             int age=0;
29             int option;
30             System.out.println("-----");
31             System.out.println("Program Options ");
32             System.out.println("Enter 1 to insert new user(s)");
33             System.out.println("Enter 2 to search user(s)");
34             System.out.println("Enter 0 to quit");
35             System.out.println("-----");
36
37             option= scanner.nextInt();
38             while(option !=0)
39             {
40                 switch(option) {
41                     //insert documents
42                     case 1:
43                         try {
44                             System.out.println("New User Creation");
45                             System.out.println("Enter user id __:");
46                             id = scanner.next();
47                             System.out.println("Enter user name __:");
48                             name = scanner.next();
49                             System.out.println("Enter user age __:");
50                             age = scanner.nextInt();
51                         }
52                         catch (InputMismatchException ime) {
53                             System.err.println("Incorrect entry.");
54                         }
55                     }
56             }
57         }
58     }
59 }
```

```
55         // create a document to store key and value
56         BasicDBObject document = new BasicDBObject();
57
58         document.put("_id", id);
59         document.put("name", name);
60         document.put("age", age);
61         document.put("createdDate", new Date());
62         table.insert(document);
63
64         System.out.println("New Document created for id: " + id);
65         break;
66     //search documents
67     case 2:
68         /**** Display ****/
69         BasicDBObject searchQuery = new BasicDBObject();
70         System.out.println("Enter user name to search __:");
71         name = scanner.next();
72         searchQuery.put("name", name);
73         DBCursor cursor = table.find(searchQuery);
74         while (cursor.hasNext()) {
75             DBObject tobj = cursor.next();
76             String doc_id = (String)tobj.get("_id");
77             String doc_name = (String)tobj.get("name");
78             int doc_age = (Integer)tobj.get("age");
79             System.out.println("QUERY RESULTS");
80             System.out.println("> ID: " + doc_id);
81             System.out.println("> Name: " + doc_name);
82             System.out.println("> Age: " + doc_age);
83         }
84         break;
85     }
86     System.out.println("-----");
87     System.out.println("Program Options ");
88     System.out.println("Enter 1 to insert new user(s)");
89     System.out.println("Enter 2 to search user(s)");
90     System.out.println("Enter 0 to quit");
91     System.out.println("-----");
92     option = scanner.nextInt();
93 }
94 } catch (UnknownHostException e) {
95     e.printStackTrace();
96 } catch (MongoException e) {
97     e.printStackTrace();
98 }
99 }
100 }
```