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Java + MongoDB hello world example

By mkyong (<http://www.mkyong.com/author/mkyong/>) | May 2, 2011 | Updated : March 8, 2013 | Viewed : 375,211 times +816 pv/w

A simple Java + MongoDB hello world example – how to connect, create database, collection and document, save, update, remove, get and display document (data).

Tools and technologies used :

1. MongoDB 2.2.3
2. MongoDB-Java-Driver 2.10.1
3. JDK 1.6
4. Maven 3.0.3
5. Eclipse 4.2

P.S Maven and Eclipse are both optional, just my personal favorite development tool.

1. Create a Java Project

Create a simple Java project (<http://www.mkyong.com/maven/how-to-create-a-java-project-with-maven/>) with Maven.

```
mvn archetype:generate -DgroupId=com.mkyong.core -DartifactId=mongodb  
-DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false
```



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2. Get Mongo Java Driver

Download mongo-java driver from github (<https://github.com/mongodb/mongo-java-driver/downloads>). For Maven users, declares mongo-java driver in `pom.xml`.

```
pom.xml
```

```

<project ...>
  <dependencies>

    <dependency>
      <groupId>org.mongodb</groupId>
      <artifactId>mongo-java-driver</artifactId>
      <version>2.10.1</version>
    </dependency>

  </dependencies>

  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>2.3.1</version>
        <configuration>
          <source>1.6</source>
          <target>1.6</target>
        </configuration>
      </plugin>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-eclipse-plugin</artifactId>
        <configuration>
          <downloadSources>true</downloadSources>
          <downloadJavadocs>true</downloadJavadocs>
        </configuration>
      </plugin>
    </plugins>
  </build>
</project>

```



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3. Mongo Connection

Connect to MongoDB server. For MongoDB version \geq 2.10.0, uses MongoClient.

```

// Old version, uses Mongo
Mongo mongo = new Mongo("localhost", 27017);

// Since 2.10.0, uses MongoClient
MongoClient mongo = new MongoClient( "localhost" , 27017 );

```

If MongoDB in secure mode, authentication is required.

```

MongoClient mongoClient = new MongoClient();
DB db = mongoClient.getDB("database name");
boolean auth = db.authenticate("username", "password".toCharArray());

```

4. Mongo Database

Get database. If the database doesn't exist, MongoDB will create it for you.

```

DB db = mongo.getDB("database name");

```

Display all databases.

```
List<String> dbs = mongo.getDatabaseNames();
for(String db : dbs){
    System.out.println(db);
}
```

5. Mongo Collection

Get collection / table.

```
DB db = mongo.getDB("testdb");
DBCollection table = db.getCollection("user");
```

Display all collections from selected database.

```
DB db = mongo.getDB("testdb");
Set<String> tables = db.getCollectionNames();

for(String coll : tables){
    System.out.println(coll);
}
```

Note

In RDBMS, collection is equal to table.

6. Save example

Save a document (data) into a collection (table) named "user".

```
DBCollection table = db.getCollection("user");
BasicDBObject document = new BasicDBObject();
document.put("name", "mkyong");
document.put("age", 30);
document.put("createdDate", new Date());
table.insert(document);
```

Refer to this Java MongoDB insert example (<http://www.mkyong.com/mongodb/java-mongodb-insert-a-document/>).

7. Update example

Update a document where "name=mkyong".

```
DBCollection table = db.getCollection("user");

BasicDBObject query = new BasicDBObject();
query.put("name", "mkyong");

BasicDBObject newDocument = new BasicDBObject();
newDocument.put("name", "mkyong-updated");

BasicDBObject updateObj = new BasicDBObject();
updateObj.put("$set", newDocument);

table.update(query, updateObj);
```

Refer to this Java MongoDB update example (<http://www.mkyong.com/mongodb/java-mongodb-update-document/>).

8. Find example

Find document where "name=mkyong", and display it with DBCursor

```
DBCollection table = db.getCollection("user");

BasicDBObject searchQuery = new BasicDBObject();
searchQuery.put("name", "mkyong");

DBCursor cursor = table.find(searchQuery);

while (cursor.hasNext()) {
    System.out.println(cursor.next());
}
```

Refer to this Java MongoDB search query example (<http://www.mkyong.com/mongodb/java-mongodb-query-document/>).

9. Delete example

Find document where "name=mkyong", and delete it.

```
DBCollection table = db.getCollection("user");

BasicDBObject searchQuery = new BasicDBObject();
searchQuery.put("name", "mkyong");

table.remove(searchQuery);
```

Refer to this Java MongoDB delete example (<http://www.mkyong.com/mongodb/java-mongodb-delete-document/>).

10. Hello World

Let review a complete Java + MongoDB example, see comments for self-explanatory.

App.java

```
package com.mkyong.core;

import java.net.UnknownHostException;
import java.util.Date;
import com.mongodb.BasicDBObject;
import com.mongodb.DB;
import com.mongodb.DBCollection;
import com.mongodb.DBCursor;
import com.mongodb.MongoClient;
import com.mongodb.MongoException;

/**
 * Java + MongoDB Hello world Example
 *
 */
public class App {
    public static void main(String[] args) {

        try {

            /*** Connect to MongoDB ***/
            // Since 2.10.0, uses MongoClient
            MongoClient mongo = new MongoClient("localhost", 27017);

            /*** Get database ***/
            // if database doesn't exists, MongoDB will create it for you
            DB db = mongo.getDB("testdb");

            /*** Get collection / table from 'testdb' ***/
            // if collection doesn't exists, MongoDB will create it for you
            DBCollection table = db.getCollection("user");

            /*** Insert ***/
            // create a document to store key and value
            BasicDBObject document = new BasicDBObject();
            document.put("name", "mkyong");
            document.put("age", 30);
            document.put("createdDate", new Date());
            table.insert(document);

            /*** Find and display ***/
            BasicDBObject searchQuery = new BasicDBObject();
            searchQuery.put("name", "mkyong");

            DBCursor cursor = table.find(searchQuery);

            while (cursor.hasNext()) {
                System.out.println(cursor.next());
            }

            /*** Update ***/
            // search document where name="mkyong" and update it with new values
            BasicDBObject query = new BasicDBObject();
            query.put("name", "mkyong");

            BasicDBObject newDocument = new BasicDBObject();
            newDocument.put("name", "mkyong-updated");

            BasicDBObject updateObj = new BasicDBObject();
            updateObj.put("$set", newDocument);

            table.update(query, updateObj);

            /*** Find and display ***/
            BasicDBObject searchQuery2
                = new BasicDBObject().append("name", "mkyong-updated");

            DBCursor cursor2 = table.find(searchQuery2);

            while (cursor2.hasNext()) {
                System.out.println(cursor2.next());
            }

            /*** Done ***/
            System.out.println("Done");
        }
    }
}
```

```
} catch (UnknownHostException e) {  
    e.printStackTrace();  
}  
} catch (MongoException e) {  
    e.printStackTrace();  
}  
  
}  
}
```

Output...

```
{ "_id" : { "$oid" : "51398e6e30044a944cc23e2e" } , "name" : "mkyong" , "age" : 30 , "createdAt" : { "$date" : "2013-03-08T07:08:30.168Z" } , "updatedAt" : { "$date" : "2013-03-08T07:08:30.168Z" } }  
{ "_id" : { "$oid" : "51398e6e30044a944cc23e2e" } , "age" : 30 , "createdAt" : { "$date" : "2013-03-08T07:08:30.168Z" } , "name" : "mkyong" , "updatedAt" : { "$date" : "2013-03-08T07:08:30.168Z" } }  
Done
```

Let use mongo console to check the created database “testdb”, collection “user”, and document.

```
$ mongo  
MongoDB shell version: 2.2.3  
connecting to: test  
  
> show dbs  
testdb 0.203125GB  
  
> use testdb  
switched to db testdb  
  
> show collections  
system.indexes  
user  
> db.user.find()  
{ "_id" : ObjectId("51398e6e30044a944cc23e2e"), "age" : 30, "createdAt" : ISODate("2013-03-08T07:08:30.168Z"), "name" : "mkyong-updated" }
```

Download Source Code

Download it – Java-mongodb-hello-world-example.zip (<http://www.mkyong.com/wp-content/uploads/2011/05/Java-mongodb-hello-world-example.zip>) (13KB)

References

1. Getting started with Java driver (<http://docs.mongodb.org/ecosystem/tutorial/getting-started-with-java-driver/>)
2. Java-MongoDB driver (<https://github.com/mongodb/mongo-java-driver/downloads>)

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mkyong

Founder of Mkyong.com (<http://mkyong.com>), love Java and open source stuff. Follow him on Twitter (<https://twitter.com/mkyong>), or befriend him on Facebook (<http://www.facebook.com/java.tutorial>) or Google Plus (<https://plus.google.com/110948163568945735692?rel=author>). If you like my tutorials, consider make a donation to these charities (<http://www.mkyong.com/blog/donate-to-charity/>).

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Shubham Aggarwal (<https://shubham.carrrd.co/>)


"com.mongodb.DB" is now deprecated.

Guest We can use "MongoDatabase database = mongoClient.getDatabase("myMongoDb");" to obtain the database now but with that, many other methods will change, like to get a collection etc.




1



 REPLY


🕒 11 months 29 days ago




Carol


Thanks, good article.

Guest




0



 REPLY


🕒 1 month 8 days ago




Youssef


Why when i do tout in android studio it bloc

Guest




0



 REPLY


🕒 5 months 18 days ago




Dmitry (<http://vk.com/dionp95>)


Thanks mkyong :D

Guest



0



 REPLY

🕒 5 months 23 days ago

http://www.mkyong.com/mongodb/java-mongodb-hello-world-example/

8/14



Kishan Kumar Verma

hi any bady is know how to automate Mongoddb Quarry

Guest

0 REPLY

🕒 6 months 8 days ago



Ashok

After downloading MongoDriver 2.9.1, 2.10.1 and so on using maven, I cannot find MongoClient. Can you help me with this?

Guest

0 REPLY

🕒 1 year 3 months ago ^



Ashok

Never mind.. I got it after series of debugging and internet searches.. Thanks and the articles are really good for a newbie like me

Guest

0 REPLY

🕒 1 year 3 months ago ^



Brija

Can you please share how did you do it?

Guest

0 REPLY

🕒 5 months 21 days ago



Sankar

Hi I did know how to set the data type as objectId in mongodb using java. Example "accountId" : ObjectId("56c3fc7fbb82eeb4039106b7").
Give solution

Guest

0 REPLY

🕒 1 year 5 months ago ^



Sankar

It's very urgent

Guest

0 REPLY

🕒 1 year 5 months ago



Suresh

i am trying to insert form data from a jsp page to the mongodb but i am not succeed plz give me any example of jsp+mongodb with form submission please.....

Guest

0 REPLY

🕒 2 years 21 days ago



Amol Jore

Thanks Mkyong.. helped me a lot.

Guest

0 REPLY

🕒 2 years 4 months ago



Dennis Wanjama

I was following this tutorial
this is my error: the method put(String, Object) in the type BasicDBObject is not applicable for the arguments (String, int)
mycode:
BasicDBObject doc = new BasicDBObject();
doc.put("age", 20);

Guest

0 REPLY

🕒 2 years 4 months ago



Dennis Wanjama

Guest

hi i was following your tutorial <http://www.mkyong.com/mongodb/java-mongodb-hello-world-example/>
(<http://www.mkyong.com/mongodb/java-mongodb-hello-world-example/>)
this is my error: the method put(String, Object) in the type BasicDBObject is not applicable for the arguments (String, int)
mycode:
BasicDBObject doc = new BasicDBObject();
doc.put("age", 20);



2 years 4 months ago



Guest

Rashmi Venkatesh

Hello, I am getting this error when trying to connect to mongodb server through Java code. I am able to connect and run commands in mongo shell. Please help INFO: Exception in monitor thread while connecting to server xxxxxxx:cccc
com.mongodb.MongoSocketReadException: Exception receiving message at
com.mongodb.connection.InternalStreamConnection.translateReadException(InternalStreamConnection.java:480) at
com.mongodb.connection.InternalStreamConnection.receiveMessage(InternalStreamConnection.java:225) at
com.mongodb.connection.CommandHelper.receiveReply(CommandHelper.java:134) at
com.mongodb.connection.CommandHelper.receiveCommandResult(CommandHelper.java:121) at
com.mongodb.connection.CommandHelper.executeCommand(CommandHelper.java:32) at
com.mongodb.connection.InternalStreamConnectionInitializer.initializeConnectionDescription(InternalStreamConnectionInitializer.java:83) at
com.mongodb.connection.InternalStreamConnectionInitializer.initialize(InternalStreamConnectionInitializer.java:43) at
com.mongodb.connection.InternalStreamConnection.open(InternalStreamConnection.java:115) at
com.mongodb.connection.DefaultServerMonitor\$ServerMonitorRunnable.run(DefaultServerMonitor.java:127) at
java.lang.Thread.run(Thread.java:662) Caused by: java.net.SocketException: Connection reset at
java.net.SocketInputStream.read(SocketInputStream.java:168) at com.mongodb.connection.SocketStream.read(SocketStream.java:85) at
com.mongodb.connection.InternalStreamConnection.receiveResponseBuffers(InternalStreamConnection.java:491) at
com.mongodb.connection.InternalStreamConnection.receiveMessage(InternalStreamConnection.java:221) ... 8 more
com.mongodb.MongoTimeoutException: Timed out after 30000 ms while waiting for a server that matches
ReadPreferenceServerSelector{readPreference=primary}. Client view of cluster state is {type=UNKNOWN,... Read more »



2 years 7 months ago



Guest

michael

getDB(String) is deprecated. Use getDatabase(String);



2 years 7 months ago



Guest

Scott

When I try to run I am getting:
"Exception in thread "main" java.lang.NoClassDefFoundError: com/mongodb/MongoException"
I simplified the code way down and am still getting it, also ran the original code (attached archive) and got the same thing.
Is this an issue with how I'm linking mongo to the project or something else?



2 years 9 months ago



Guest

Tom.TH Lin

Thanks for the convenient example, it works perfect!!



2 years 10 months ago



Guest

Nerdcoresteve

No matter what I do, I keep getting package com.mongodb does not exist



2 years 10 months ago ^



Guest

Nerdcoresteve

Ah, never mind. I was putting the dependency in the wrong place. Not too familiar with maven. Thanks for this tutorial. I use your tutorials all the time. :)



2 years 10 months ago



idir

thanks for your job

Guest



2 years 11 months ago



Shahul

Even after adding the org.mongodb dependency, I am not seeing the mongodb java drivers under the external libraries. Please help

Guest



2 years 11 months ago



Wojciech Bogucki

How do you convert the result to String, can you use toString() method?

Guest



3 years 3 months ago



Niharika Saxena

if table has duplicate column value after executing below script twice.

```
db.users.insert({username:"niharika",password:"123456"})
```

```
db.users.insert({username:"niharika",password:"123456"})
```

```
db.users.update({username:"niharika"},{$set:{username:"mkyoung"}})
```

When we try to update the column name it updates only 1 row. ideally it should update all the rows any suggestion?

```
{ "_id" : { "$oid" : "53b2f692d28717367aa9ce28" }, "username" : "niharika", "password" : "123456" }
```

```
{ "_id" : { "$oid" : "53b2fd6ed28717367aa9ce29" }, "username" : "mkyoung", "password" : "123456" }
```



3 years 6 months ago



tan

```
public WriteResult update( DBObject q , DBObject o , boolean upsert , boolean multi );
```

Guest



2 years 11 months ago



Umesh

I am fresher in development .

Really this is nice project/example to beginner..

Thank you very much.....

Guest



3 years 7 months ago



saurav jain

Also found more elaboration on how to create collections more explicitly i.e capped collections.

<http://lotusmediacentre.com/mongodb-java-hello-world-example/> (<http://lotusmediacentre.com/mongodb-java-hello-world-example/>)

Guest



3 years 8 months ago



Kundan Dere

When we run example code . After successful execution of code ... why the java code is not terminating ?

how should i set timeout for same example ?

Guest



4 years 17 days ago



paul

dont you want to close the connections?

Guest



🕒 4 years 2 months ago



kranthi

Hi mkyong,

Guest

Thanks for your sharing your knowledge with us.They are really helpful for us



🕒 4 years 2 months ago



Mediha

Instead of creating a maven project are there any jars that we can import and then import them?

Guest



🕒 4 years 5 months ago ^



Mediha

Instead of creating a maven project are there any jars that we can import and then use those instead of pom.xml dependencies?

Guest



🕒 4 years 5 months ago ^



Mateen

i just did tried that there are 3 jars listed below that i used, and copied the above sample program it worked just fine

Guest

1. mongo-2.10.1.jar
2. mongoconnector.jar
3. mongo-java-driver-2.10.1-javadoc.jar

and you will be good to go



🕒 3 years 10 months ago



a

Why would you ever want to do that? Maven has made everything so easy.

Guest



🕒 4 years 1 month ago



nirmal

Some more examples

Guest

http://www.pretechsol.com/p/nosql_20.html#UeZpTRnZhaE (http://www.pretechsol.com/p/nosql_20.html#UeZpTRnZhaE)

🕒 4 years 5 months ago



ajit

For a beginner like me , your tutorials are too good. I appreciate the work that you do to make people understand all the concepts.
Thanks a lot.

Guest



🕒 4 years 6 months ago



dreamshutter

Do not need mongoClient.close() in example source?
use only upper code then mongo has too many client connection
then it works slower

Guest



🕒 4 years 9 months ago



Ramath (<http://shyamu.in@gmail.com>)

Nice one . Good as a starter ! . Appreciate your effort .

Guest



4 years 11 months ago

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(<http://www.mkyong.com/mongodb/java-mongodb-hello-world-example/#!parentId=126370>)



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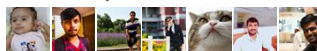


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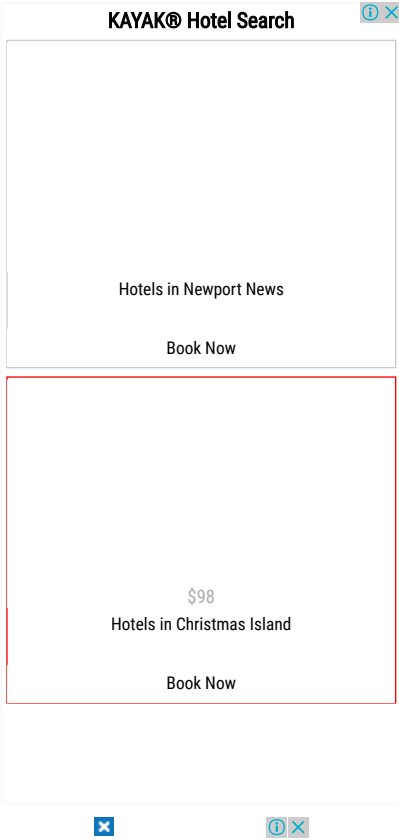
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