

Java APIs for Developers

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Spring Data MongoDB hello world example

By mkyong (http://www.mkyong.com/author/mkyong/) | May 16, 2011 | Updated : June 2, 2013 | Viewed : 336,629 times +424 pv/w

In this tutorial, we show you how to use "SpringData for MongoDB (http://www.springsource.org/spring-data/mongodb)" framework, to perform CRUD operations in MongoDB, via Spring's annotation and XML schema.

Updated on 1/04/2013

Article is updated to use latest SpringData v 1.2.0.RELEASE, it was v1.0.0.M2.

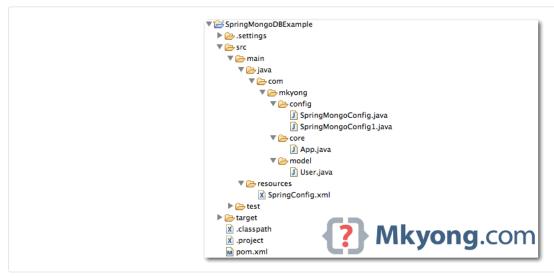
Tools and technologies used:

- 1. Spring Data MongoDB 1.2.0.RELEASE
- 2. Spring Core 3.2.2.RELEASE
- 3. Java Mongo Driver 2.11.0
- 4. Eclipse 4.2
- 5. JDK 1.6
- 6. Maven 3.0.3

P.S Spring Data requires JDK 6.0 and above, and Spring Framework 3.0.x and above.

1. Project Structure

A classic Maven's style Java project directory structure.





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2. Dependency

The following libraries are required:

spring-data-mongodb

Currently, the "spring-data-mongodb" jar is only available in "http://maven.springframework.org/milestone", so, you have to declare this repository

Updated on 13/09/2012

spring-data-mongodb is available at the Maven central repository, Spring repository is no longer required.

pom.xml

```
project xmlns="http://maven.apache.org/POM/4.0.0"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0"
   http://maven.apache.org/maven-v4_0_0.xsd">
   <modelVersion>4.0.0</modelVersion>
   <groupId>com.mkyong.core
   <artifactId>SpringMongoDBExample</artifactId>
   <packaging>jar</packaging>
   <version>1.0</version>
   <name>SpringMongoExample</name>
   <url>http://maven.apache.org</url>
   <dependencies>
       <!-- Spring framework -->
       <dependency>
           <groupId>org.springframework</groupId>
           <artifactId>spring-core</artifactId>
           <version>3.2.2.RELEASE
       </dependency>
       <dependency>
           <groupId>org.springframework</groupId>
           <artifactId>spring-context</artifactId>
           <version>3.2.2.RELEASE
       </dependency>
       <!-- mongodb java driver -->
       <dependency>
           <groupId>org.mongodb
           <artifactId>mongo-java-driver</artifactId>
           <version>2.11.0
       </dependency>
       <!-- Spring data mongodb -->
       <dependency>
           <groupId>org.springframework.data
           <artifactId>spring-data-mongodb</artifactId>
           <version>1.2.0.RELEASE
       </dependency>
       <dependency>
           <groupId>cglib
           <artifactId>cglib</artifactId>
           <version>2.2.2
       </dependency>
   </dependencies>
   <build>
       <plugins>
           <pluain>
               <artifactId>maven-compiler-plugin</artifactId>
               <version>3.0</version>
               <configuration>
                   <source>1.6</source>
                   <target>1.6</target>
               </configuration>
           </plugin>
           <plugin>
               <groupId>org.apache.maven.plugins
               <artifactId>maven-eclipse-plugin</artifactId>
               <version>2.9</version>
               <configuration>
                   <downloadSources>true</downloadSources>
                   <downloadJavadocs>true</downloadJavadocs>
               </configuration>
           </plugin>
       </plugins>
   </build>
</project>
```



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3. Spring Configuration, Annotation and XML

Here, we show you two ways to configure Spring data and connect to MongoDB, via annotation and XML schema.

Note

Refer to this official reference Connecting to MongoDB with Spring (http://static.springsource.org/spring-data/data-mongodb/docs/current/reference/html/mongo.core.html#mongodb-connectors).

3.1 Annotation

Extends the AbstractMongoConfiguration is the fastest way, it helps to configure everything you need to start, like mongoTemplate object.

```
SpringMongoConfig.java
package com.mkyong.config;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import\ org.spring framework. data.mongodb.config. Abstract Mongo Configuration;
import com.mongodb.Mongo;
import com.mongodb.MongoClient;
@Configuration
public class SpringMongoConfig extends AbstractMongoConfiguration {
   @Override
    public String getDatabaseName() {
       return "yourdb";
   @Override
   @Bean
   public Mongo mongo() throws Exception {
       return new MongoClient("127.0.0.1");
}
```

Alternatively, I prefer this one, more flexible to configure everything.

SpringMongoConfig1.java

```
package com.mkyong.config;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.data.mongodb.MongoDbFactory;
import\ org. spring framework. data. mongodb. core. Mongo Template;
import org.springframework.data.mongodb.core.SimpleMongoDbFactory;
import com.mongodb.MongoClient;
@Configuration
public class SpringMongoConfig1 {
    public @Bean
   MongoDbFactory mongoDbFactory() throws Exception {
        return new SimpleMongoDbFactory(new MongoClient(), "yourdb");
   public @Bean
   MongoTemplate mongoTemplate() throws Exception {
        MongoTemplate mongoTemplate = new MongoTemplate(mongoDbFactory());
        return mongoTemplate;
   }
}
```

And load it with AnnotationConfigApplicationContext:

```
ApplicationContext ctx = new AnnotationConfigApplicationContext(SpringMongoConfig.class);
MongoOperations mongoOperation = (MongoOperations)ctx.getBean("mongoTemplate");
```

3.2 XML Schema

```
SpringConfig.xml
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:context="http://www.springframework.org/schema/context"
    xmlns:mongo="http://www.springframework.org/schema/data/mongo"
    xsi:schemaLocation="http://www.springframework.org/schema/context
          http://www.springframework.org/schema/context/spring-context-3.0.xsd
          http://www.springframework.org/schema/data/mongo
          http://www.springframework.org/schema/data/mongo/spring-mongo-1.0.xsd
          http://www.springframework.org/schema/beans
          http://www.springframework.org/schema/beans/spring-beans-3.0.xsd">
    <mongo:mongo host="127.0.0.1" port="27017" />
    <mongo:db-factory dbname="yourdb" />
    <bean id="mongoTemplate" class="org.springframework.data.mongodb.core.MongoTemplate">
       <constructor-arg name="mongoDbFactory" ref="mongoDbFactory" />
    </bean>
</beans>
```

And include it with Spring's GenericXmlApplicationContext:

```
ApplicationContext ctx = new GenericXmlApplicationContext("SpringConfig.xml");
MongoOperations mongoOperation = (MongoOperations)ctx.getBean("mongoTemplate");
```

So, XML or Annotation?

Actually, both are doing the same thing, it's just based on personal preferences. Personally, I like XML to configure things.

4. User Model

An User object, annotated @Document - which collection to save. Later, we show you how to use Spring data to bind this object to / from MongoDB.

```
User.java

package com.mkyong.model;
import org.springframework.data.annotation.Id;
import org.springframework.data.mongodb.core.mapping.Document;

@Document(collection = "users")
public class User {
    @Id
    private String id;
    String username;
    String password;
    //getter, setter, toString, Constructors
}
```

5. Demo - CRUD Operations

Full example to show you how to use Spring data to perform CRUD operations in MongoDB. The Spring data APIs are quite clean and should be self-explanatory.

App.java

```
package com.mkyong.core;
import java.util.List;
import org.springframework.context.ApplicationContext;
import\ org. spring framework. context. annotation. Annotation Config Application Context;
import org.springframework.data.mongodb.core.MongoOperations;
import org.springframework.data.mongodb.core.query.Criteria;
import org.springframework.data.mongodb.core.query.Query;
import org.springframework.data.mongodb.core.query.Update;
import com.mkyong.config.SpringMongoConfig;
import com.mkyong.model.User;
//import org.springframework.context.support.GenericXmlApplicationContext;
public class App {
   public static void main(String[] args) {
   //ApplicationContext ctx = new GenericXmlApplicationContext("SpringConfig.xml");
    // For Annotation
   ApplicationContext ctx =
             new AnnotationConfigApplicationContext(SpringMongoConfig.class);
   MongoOperations mongoOperation = (MongoOperations) ctx.getBean("mongoTemplate");
   User user = new User("mkyong", "password123");
    // save
   mongoOperation.save(user);
   // now user object got the created id.
   System.out.println("1. user : " + user);
    // query to search user
   Query searchUserQuery = new Query(Criteria.where("username").is("mkyong"));
   // find the saved user again.
   User savedUser = mongoOperation.findOne(searchUserQuery, User.class);
   System.out.println("2. find - savedUser : " + savedUser);
   // update password
    mongoOperation.updateFirst(searchUserQuery,
                         Update.update("password", "new password"),User.class);
   // find the updated user object
   User updatedUser = mongoOperation.findOne(searchUserQuery, User.class);
   System.out.println("3. updatedUser : " + updatedUser);
   // delete
   mongoOperation.remove(searchUserQuery, User.class);
   // List, it should be empty now.
   List<User> listUser = mongoOperation.findAll(User.class);
   System.out.println("4. Number of user = " + listUser.size());
    }
}
```

Output

```
    user: User [id=516627653004953049d9ddf0, username=mkyong, password=password123]
    find - savedUser: User [id=516627653004953049d9ddf0, username=mkyong, password=password123]
    updatedUser: User [id=516627653004953049d9ddf0, username=mkyong, password=new password]
    Number of user = 0
```

Download Source Code

Download it – SpringMongoDB-HelloWorld-Example.zip (http://www.mkyong.com/wp-content/uploads/2011/05/SpringMongoDB-HelloWorld-Example.zip) (24 KB)

References

- 1. Spring data for MongoDB (http://www.springsource.org/spring-data/mongodb)
- Connecting to MongoDB with Spring (http://static.springsource.org/spring-data/data-mongodb/docs/current/reference/html/mongo.core.html#mongodb-connectors)
- 3. Oreilly Spring data mongodb tutorial (http://ofps.oreilly.com/titles/9781449323950/id2318796 07-mongodb.html)
- 4. Another good Spring data mongodb tutorial (http://krams915.blogspot.com/2011/02/spring-data-mongodb-tutorial.html)

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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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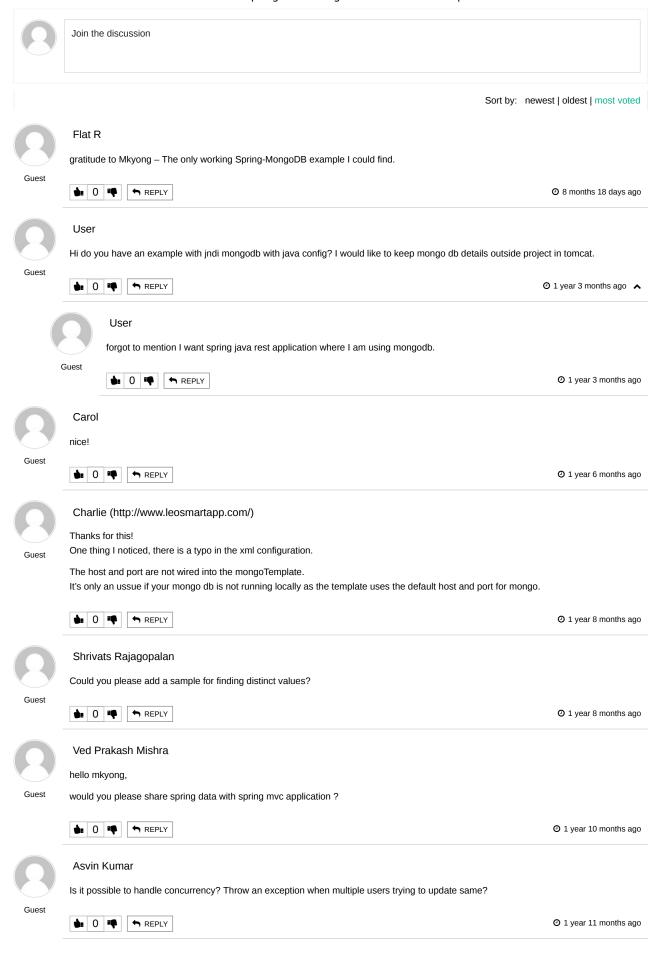
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Spring Data MongoDB hello world example



Maxi Wu

this is really confusing, SpringMongoConfig1.java do not specify any connection parameter, should at least put "127.0.0.1" to clarify thing.

Guest



2 years 7 days ago



Maxi Wu

This somehow seems anti pattern to me. Since one of the most important feature using MongoDB is to free from predefined schema. We should be able to CRUD like JSONObject to MongoDB without any POJO class, right?



② 2 years 20 days ago



rookie

How can we enable SSL connection to a MOngo DB through Spring, can you please explain Mr. Mkyong

Guest



O 2 years 2 months ago

② 2 years 3 months ago 🔥



Hari

 $how \ do \ I \ make \ this \ connection \ singleton? \ I'm \ seeing \ tons \ of \ connections \ from \ my \ app \ to \ the \ mongo \ db \ and \ they \ never \ close.$

Guest



1 0 **1** ■

Hari

REPLY

found the issue. Do not load the mongoConfig with AnnotationConfigApplicationContext as shown in the example. Instead use @Autowired to let spring inject it for you. AnnotationConfigApplicationContext creates a new virtual container within and hence it keeps creating a new connection to mongodb which leaves lots of mongodb connections lying around. Autowiring solves this

@Autowired

private MongoDBConfig mongoConfig;

problem by reusing the connections. Good luck!

public MongoApplication mongoAppData (String appName) {

try -

MongoOperations mongoOperation = mongoConfig.mongoTemplate();

logger.info(appName);

Query searchAppQuery = new Query(Criteria.where("canonical_name").is(appName));

MongoApplication newapp = mongoOperation.findOne(searchAppQuery, MongoApplication.class);

return newapp;

} catch (Exception e) {

logger.error("Error retrieving app data");

♠ REPLY

return null;

}

}



② 2 years 3 months ago



Rajendra Prasad K

When we validate SpringConfig.xml, it is throwing errors by the validation, and it is stoping me to proceed further.

Guest



② 3 years 3 months ago 🔥



Mada

Disable XML validation in your eclipse

Guest

http://stackoverflow.com/questions/7489510/disable-xml-validation-in-eclipse (http://stackoverflow.com/questions/7489510/disable-xml-validation-in-eclipse)



② 2 years 11 months ago



Gulshan

HTTP Status 500 - Servlet.init() for servlet dispatcher threw exception

Guest

type Exception report

message Servlet.init() for servlet dispatcher threw exception

description The server encountered an internal error that prevented it from fulfilling this request.

exception

javax.servlet.ServletException: Servlet.init() for servlet dispatcher threw exception

org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:472)

org. a pache. catalina. valves. Error Report Valve. invoke (Error Report Valve. java: 99)

org. a pache. catalina. valves. Access Log Valve. invoke (Access Log Valve. java: 929)

org. a pache. catalina. connector. Coyote Adapter. service (Coyote Adapter. java: 407)

org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:1002)

org.apache.coyote.AbstractProtocol\$AbstractConnectionHandler.process(AbstractProtocol.java:585)

org. a pache. tomcat. util.net. Jlo Endpoint \$ Socket Processor. run (Jlo Endpoint. java: 312)

java.util.concurrent.ThreadPoolExecutor\$Worker.runTask(ThreadPoolExecutor.java:885)

java.util.concurrent.ThreadPoolExecutor\$Worker.run(ThreadPoolExecutor.java:907)

java.lang.Thread.run(Thread.java:619)

root cause

java.lang.NoClassDefFoundError: com/mongodb/ReadPreference

java.lang.Class.getDeclaredMethods0(Native Method)

java.lang.Class.privateGetDeclaredMethods(Class.java:2427)

java.lang.Class.getDeclaredMethod(Class.java:1935)

org.springframework.core.LocalVariableTableParameterNameDiscoverer\$LocalVariableTableVisitor.resolveMember(LocalVariableTableParameterNameDiscoverer.java:236)

org.spring framework.core. Local Variable Table Parameter Name Discoverer \$Local Variable Table Visitor. visit End (Local Variable Table Parameter Name Discoverer. java: 219)

org.springframework.asm.ClassReader.accept(Unknown Source)

org.springframework.asm.ClassReader.accept(Unknown Source)

org.springframework.core.LocalVariableTableParameterNameDiscoverer.inspectClass(LocalVariableTableParameterNameDiscoverer.java:1114)

org.springframework.core.LocalVariableTableParameterNameDiscoverer.getParameterNames(LocalVariableTableParameterNameDiscoverer.java:86)

org.springframework.beans.factory.support.ConstructorResolver.autowireConstructor(ConstructorResolver.java:193)

org.spring framework. beans. factory. support. Abstract Autowire Capable Bean Factory. autowire Constructor (Abstract Autowire Capable Bean Factory. autowire Constructor (Abstract Autowire Capable Bean Factory. Automatical Bean Factory

org.springframework.beans.factory.support.AbstractAutowireCapableBeanFactory.createBeanInstance(AbstractAutowireCapableBeanFactory.java:939)

org.springframework.beans.factory.support.AbstractAutowireCapableBeanFactory.doCreateBean(AbstractAutowireCapableBeanFactory.ja va:485)

org.springframework.beans.factory.support.AbstractAutowireCapableBeanFactory.createBean(AbstractAutowireCapableBeanFactory.java: 456)

org.springframework.beans.factory.support.AbstractBeanFactory\$1.getObject(AbstractBeanFactory.java:294)

org.spring framework. beans. factory. support. Default Singleton Bean Registry. get Singleton (Default Singleton Bean Registry. java: 225) and the properties of the propert

org.spring framework.beans.factory.support.AbstractBean Factory.doGetBean (AbstractBean Factory.java:291)

org.spring framework. beans. factory. support. Abstract Bean Factory. get Bean (Abstract Bean Factory. java: 193)

org.spring framework. beans. factory. support. Default Listable Bean Factory. preInstantiate Singletons (Default Listable Bean Factory. java: 585) and the properties of the

org. spring framework. context. support. Abstract Application Context. finish Bean Factory Initialization (Abstract Application Context. java: 913)

org.spring framework.context.support.Abstract Application Context.refresh (Abstract Application Context.java: 464)

org. spring framework. we b. servlet. Framework Servlet. configure And Refresh Web Application Context (Framework Servlet. java: 631) and the property of th

org.spring framework.web.servlet.Framework Servlet.create Web Application Context (Framework Servlet.java: 588) and the servlet of the serv

org.springframework.web.servlet.FrameworkServlet.java:645)

org. spring framework. web. servlet. Framework Servlet. in it Web Application Context (Framework Servlet. java: 508) and the property of the

org.spring framework.web.servlet. Framework Servlet. in it Servlet Bean (Framework Servlet. java: 449)

org.spring framework.web.servlet. HttpServletBean.init (HttpServletBean.java:133)

javax.servlet.GenericServlet.init (GenericServlet.java:160)

org. a pache. catalina. authenticator. Authenticator Base. invoke (Authenticator Base. java: 472)

org. a pache. catalina. valves. Error Report Valve. invoke (Error Report Valve. java: 99)

org.apache.catalina.valves.AccessLogValve.invoke(AccessLogValve.java:929) org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:407)

org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:1002)

org.apache.coyote.AbstractProtocol\$AbstractConnectionHandler.process(AbstractProtocol.java:585)

org.apache.tomcat.util.net.JloEndpoint\$SocketProcessor.run(JloEndpoint.java:312)

java.util.concurrent.ThreadPoolExecutor\$Worker.runTask(ThreadPoolExecutor.java:885)

java.util.concurrent. Thread Pool Executor \$Worker.run (Thread Pool Executor.java: 907)

java.lang.Thread.run(Thread.java:619)

note The full stack trace of the root cause is available in the Apache Tomcat/7.0.30 logs.

Apache Tomcat/7.0.30



1 0 ■

2 4 years 10 days ago

② 4 years 15 days ago



spring data mongodb 1.0.2.RELEASE | Just do

it. (http://dev118.com/archives/461)

REPLY

[...] Helloworld?http://www.mkyong.com/mongodb/spring-data-mongodb-hello-

 $world-example/\ (http://www.mkyong.com/mongodb/spring-data-mongodb-hello-world-example/)\ [\dots]$



Veer

Hello,

Sugat

I am new to MongoDB.

I am getting Error -> The method getBean(String) is undefined for the type ApplicationContext. for the following

MongoOperations mongoOperation = (MongoOperations) ctx.getBean("mongoTemplate");

Please let me know which version of JAR do I need to use?



② 4 years 1 month ago



Greg

I get org/springframework/dao/InvalidDataAccessApiUsageException. Isn't this a relic of Spring 2?

Guest



② 4 years 5 months ago



Maxim

seems this is invalid:

Guest

there is no 'mongoDbFactory'



② 4 years 6 months ago



JJ Zabkar

FYI, the link in section 3 is broken ("hhttp").





4 years 7 months ago



mkyong (http://www.mkyong.com)

Fixed, thanks.

(http://www.mkyong.com/author/mkyong/)

Author



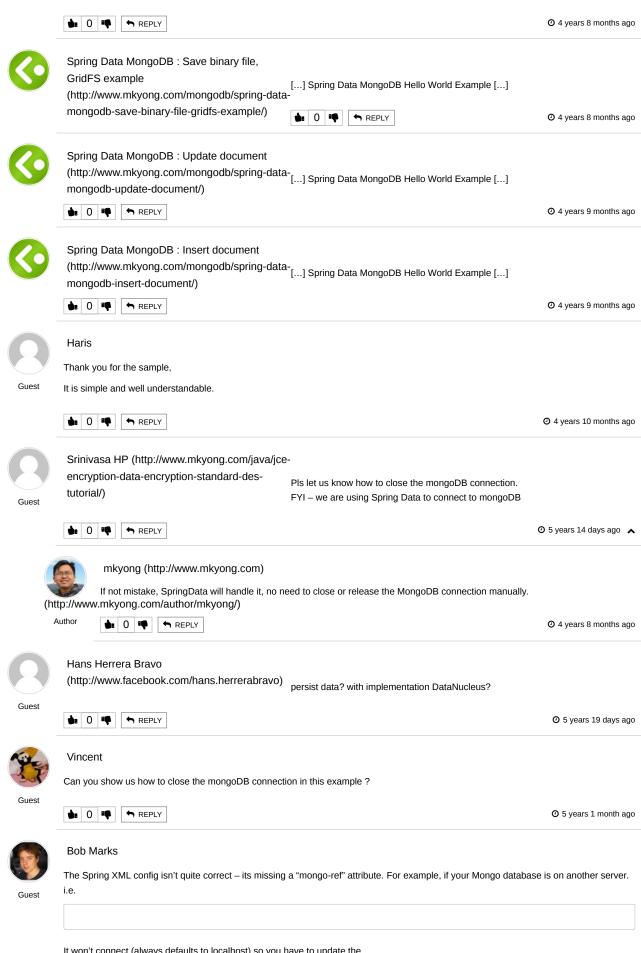
② 4 years 7 months ago



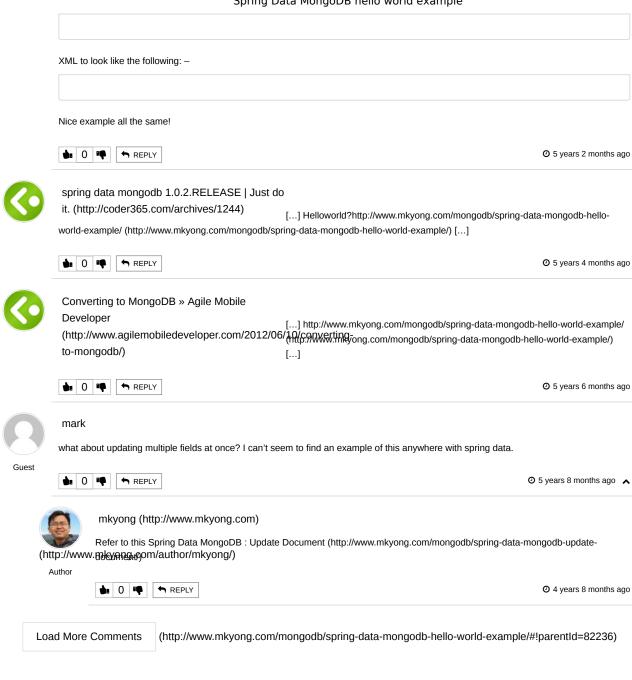
Java MongoDB Tutorial (http://www.mkyong.com/tutorials/javamongodb-tutorials/)

 $[...] Spring \ Data \ MongoDB \ hello \ world \ example \ Configure \ (both \ XML \ and \ annotation) \ and \ perform \ CRUD \ operations \ with \ "Spring \ Data \ for \ MongoDB"$

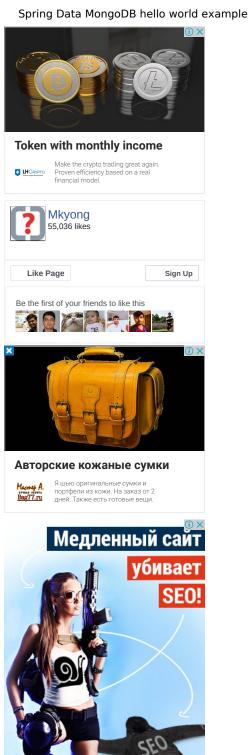
framework. [...]



It won't connect (always defaults to localhost) so you have to update the







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