Spring Boot With MongoDB simple application(Part-3)

◯

Create Spring Starter Project then create following packages and select below dependencies::

1.) spring-boot-starter-data-mongodb

2.) spring-boot-devtools

3.)lombok

1.)

pom.xml::

```
<?xml version="1.0" encoding="UTF-8"?>

<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/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<parent>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-parent</artifactId>

<version>2.1.7.RELEASE</version>

<relativePath /> <!-- lookup parent from repository -->

</parent>

<groupId>com.dev</groupId>

<artifactId>SpringBootWithMongoDBDemo1</artifactId>
```

```xml
<version>0.0.1-SNAPSHOT</version>

<name>SpringBootWithMongoDBDemo1</name>

<description>Demo project for Spring Boot</description>

<properties>

<java.version>1.8</java.version>

</properties>

<dependencies>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-data-mongodb</artifactId>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-test</artifactId>

<scope>test</scope>

</dependency>

<!-- https://mvnrepository.com/artifact/org.springframework.boot/spring-boot-devtools -->

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-devtools</artifactId>

<version>2.1.3.RELEASE</version>

</dependency>

<!-- https://mvnrepository.com/artifact/org.projectlombok/lombok -->
```
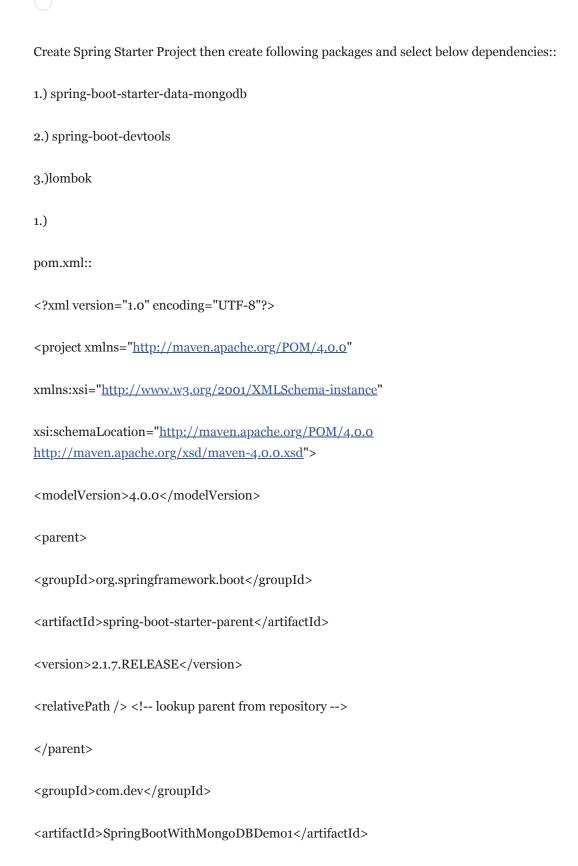
```xml
<dependency>

<groupId>org.projectlombok</groupId>

<artifactId>lombok</artifactId>

<version>1.18.4</version>

<scope>provided</scope>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-maven-plugin</artifactId>

</plugin>

</plugins>

</build>

</project>
```

2.) Repository class::

```java
package com.dev.repo;

import org.springframework.data.mongodb.repository.MongoRepository;

import org.springframework.stereotype.Repository;

import com.dev.model.Employee;

@Repository //optional to put

public interface EmployeeRepo extends MongoRepository<Employee,Integer>{
```

}

3.) Document class::

package com.dev.model;

import org.bson.types.ObjectId;

import org.springframework.data.annotation.Id;

import org.springframework.data.mongodb.core.index.Indexed;

import org.springframework.data.mongodb.core.mapping.Document;

import lombok.Data;

@Document(collection = "employees")

@Data

public class Employee {

@Id ObjectId databaseId;

private int empid;

private String empname;

}

4.)Spring Boot main class::

package com.dev;

import java.util.List;

import org.springframework.boot.CommandLineRunner;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.context.annotation.Bean;

import com.dev.model.Employee;

```java
import com.dev.repo.EmployeeRepo;

@SpringBootApplication

public class SpringBootWithMongoDbDemo1Application{

public static void main(String[] args) {

SpringApplication.run(SpringBootWithMongoDbDemo1Application.class, args);

}

@Bean

CommandLineRunner init(EmployeeRepo repo) {

return args->{

List<Employee> employeesList=repo.findAll();

System.out.println("Employee Details::"+employeesList);

};

}

}
```

5.) application.properties::

#mongodb

spring.data.mongodb.host=localhost

spring.data.mongodb.port=27017

spring.data.mongodb.database=testdb

6.) Run as Spring Boot Application::

output::

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```
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 =========|_|==============|___/=/_/_/_/
```

:: Spring Boot :: (v2.1.7.RELEASE)

2019-08-12 00:38:05.217 INFO 12152 --- [main] .d.SpringBootWithMongoDbDemo1Application : Starting SpringBootWithMongoDbDemo1Application on DESKTOP-SGQN2NU with PID 12152 (C:\Users\ashutosh\Documents\Hibernate\SpringBootWithMongoDBDemo1\target\classes started by ashutosh in C:\Users\ashutosh\Documents\Hibernate\SpringBootWithMongoDBDemo1)

2019-08-12 00:38:05.224 INFO 12152 --- [main] .d.SpringBootWithMongoDbDemo1Application : No active profile set, falling back to default profiles: default

2019-08-12 00:38:07.420 INFO 12152 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data repositories in DEFAULT mode.

2019-08-12 00:38:08.274 INFO 12152 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 751ms. Found 1 repository interfaces.

2019-08-12 00:38:11.032 INFO 12152 --- [main] org.mongodb.driver.cluster : Cluster created with settings {hosts=[localhost:27017], mode=MULTIPLE, requiredClusterType=UNKNOWN, serverSelectionTimeout='30000 ms', maxWaitQueueSize=500}

2019-08-12 00:38:11.032 INFO 12152 --- [main] org.mongodb.driver.cluster : Adding discovered server localhost:27017 to client view of cluster

2019-08-12 00:38:11.621 INFO 12152 --- [localhost:27017] org.mongodb.driver.connection : Opened connection [connectionId{localValue:1, serverValue:148}] to localhost:27017

2019-08-12 00:38:11.648 INFO 12152 --- [localhost:27017] org.mongodb.driver.cluster : Monitor thread successfully connected to server with description ServerDescription{address=localhost:27017, type=STANDALONE, state=CONNECTED, ok=true, version=ServerVersion{versionList=[4, 0, 12]}, minWireVersion=0, maxWireVersion=7, maxDocumentSize=16777216, logicalSessionTimeoutMinutes=30, roundTripTimeNanos=7415806}

2019-08-12 00:38:11.651 INFO 12152 --- [localhost:27017] org.mongodb.driver.cluster :
Discovered cluster type of STANDALONE

2019-08-12 00:38:15.236 INFO 12152 --- [main]
.d.SpringBootWithMongoDbDemo1Application : Started
SpringBootWithMongoDbDemo1Application in 12.367 seconds (JVM running for 19.791)

2019-08-12 00:38:15.650 INFO 12152 --- [main] org.mongodb.driver.connection : Opened
connection [connectionId{localValue:2, serverValue:149}] to localhost:27017

**Employee Details::[Employee [empid=101, empname=Ashutosh], Employee
[empid=102, empname=Vishnu], Employee [empid=103, empname=Krishna],
Employee [empid=104, empname=Triveni]]**

2019-08-12 00:38:16.148 INFO 12152 --- [Thread-2] org.mongodb.driver.connection :
Closed connection [connectionId{localValue:2, serverValue:149}] to localhost:27017 because
the pool has been closed.

3

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