Java-Success.com

Industrial strength Java Career Companion

search here ... Go

Register Login Logout Contact Us

Java FAQs 600+ Java Q&As Home **Tutorials** Member Why? Career Can u Debug? Java 8 ready? Top X **Productivity Tools** Judging Experience?

Home > member-paid > 02: Simple Spring Boot Restful Web Service Tutorial

02: Simple Spring **Boot Restful Web Service Tutorial**

Posted on November 21, 2015 by Arulkumaran Kumaraswamipillai

This tutorial extends Simple Spring Boot Tutorial in 8 steps.

Step 1: The **pom.xml** file that was created in the previous Spring boot tutorial needs to be changed from "spring-bootstarter-actuator" to "spring-boot-starter-web"

```
3
      xsi:schemaLocation="http://maven.apache.org/
4
      <modelVersion>4.0.0</modelVersion>
5
      <groupId>com.mytutorial</groupId>
      <artifactId>simple-spring-boot</artifactId>
6
      <packaging>jar</packaging>
7
8
      <version>1.0-SNAPSHOT</version>
9
      <name>simple-spring-boot</name>
10
      <url>http://maven.apache.org</url>
11
12
13
          <groupId>org.springframework.boot</group</pre>
14
          <artifactId>spring-boot-starter-parent
15
          <version>1.3.0.RELEASE
16
      </parent>
17
18
      <dependencies>
19
          <dependency>
20
              <groupId>junit</groupId>
21
              <artifactId>junit</artifactId>
              <scope>test</scope>
```

600+ Full Stack Java/JEE **Interview O&As ♥Free ♦FAQs**

open all | close all

- in Ice Breaker Interview
- Core Java Interview C
- **■** JEE Interview Q&A (3
- Pressed for time? Jav
- SQL, XML, UML, JSC
- Hadoop & BigData Int
- Java Architecture Inte
- Scala Interview Q&As
- □ Spring, Hibernate, & I
 - □ Spring (18)
 - □ Spring boot (4)
 - → 11 Spring bc
 - - 01: Simple Sp
 - 02: Simple Sp
 - -03: Spring boo
 - ⊕ Spring IO (1)
 - Spring JavaConf
 - 01: ♥♦ 13 Spring

 - 01b: ♦ 13 Spring
 - -02: ► Spring DII
 - 03: ♥♦ Spring DI
 - 04 ♦ 17 Spring b

```
23
            </dependency>
24
25
            <dependency>
26
                <groupId>org.springframework.boot</q</pre>
27
                <artifactId>spring-boot-starter-web<
28
                </dependency>
29
        </dependencies>
30
31
       <build>
32
            <plugins>
33
                <plugin>
34
                     <!-- Build an executable JAR -->
35
                     <groupId>org.apache.maven.plugin
36
                     <artifactId>maven-jar-plugin</ar
37
                     <configuration>
38
                         <archive>
39
                              <manifest>
40
                                  <addClasspath>true</
41
                                  <classpathPrefix>lib
42
                                  <mainClass>com.mytut
43
                              </manifest>
44
                         </archive>
45
                     </configuration>
46
                </plugin>
47
                <plugin>
48
                     <groupId>org.springframework.boo
49
                     <artifactId>spring-boot-maven-pl
50
                     </plugin>
51
            </plugins>
52
        </build>
53
54 </project>
```

Step 2: Add additional logic to the "App.java" to turn it into a controller to be invoked as a RESTful web service.

```
-05: ♦ 9 Spring Be
-06: ♥ Debugging
-07: Debugging S
-Spring loading p
-Hibernate (13)
-AngularJS (2)
-Git & SVN (6)
-JMeter (2)
-JSF (2)
-Maven (3)
-Testing & Profiling/Sa
-Other Interview Q&A1
-Free Java Interviey
```

16 Technical Key Areas

```
open all | close all
```

- **⊞** Best Practice (6)
- **⊞** Coding (26)
- ⊞ Concurrency (6)

- Exception Handling (3

- **⊞** QoS (8)
- **⊞** SDLC (6)
- ⊞ Security (13)

80+ step by step Java Tutorials

```
2
   package com.mytutorial;
   import org.springframework.boot.SpringApplicatio
   import org.springframework.boot.autoconfigure.En
   import org.springframework.context.annotation.Co
   import org.springframework.context.annotation.Co
   import org.springframework.stereotype.Controller
   import org.springframework.web.bind.annotation.R
10 import org.springframework.web.bind.annotation.R
11
12
13 @Configuration
14 @EnableAutoConfiguration
15
   @ComponentScan
16 @Controller
   public class App
17
18
19
20
       @ResponseBody
21
       @RequestMapping("/")
22
       public String hello() {
23
           return "Hello from RESTful Web Service";
24
25
26
       public static void main( String[] args )
27
28
           SpringApplication.run(App.class, args);
29
30
       }
31 }
32
33
```

Step 3: Ready to build the "jar" now.

```
1
2 c:/projects/simple-spring-boot> mvn package
3
```

The "target" directory will have the jar file "simple-spring-boot-1.0-SNAPSHOT.jar"

Step 4: Deploy the very simple Spring boot application & run as shown below

right-click on the jar, and then select "properties" to get the full file path of the jar file.

"c:/projects/simple-spring-boot/target/simple-spring-boot-1.0-SNAPSHOT.jar"

```
open all | close all
Setting up Tutorial (6)
Tutorial - Diagnosis (2)
□ Core Java Tutorials (2)
Hadoop & Spark Tuto
■ JEE Tutorials (19)
□ Spring & HIbernate Tr
  Hibernate Tutorial (
  ■ Spring Basics Tuto
  Spring batch tutoria
  □ Spring Boot Tutoria
     -01: Simple Sprin
     -02: Simple Sprin
     ....03: Spring boot I
  Spring IO Tutorial (
  ⊞ Spring ORM Tutoria
  Spring other tutoria
  ■ Spring OXM Tutoria
i Tools Tutorials (19)

    Other Tutorials (45)
```

100+ Java pre-interview coding tests

open all | close all

- Can you write code?
- **⊞** Converting from A to I
- Designing your class∈

- Passing the unit tests
- What is wrong with th
- Writing Code Home A
- Written Test Core Jav

```
1
2 c:/projects/simple-spring-boot>java -jar c:/proje
3
```

This will deploy the "simple-spring-boot-1.0-SNAPSHOT.jar" to & start the Tomcat server. The default port is 8080.

How good are your?

open all | close all

- Career Making Know-

Now, open a browser and type "http://localhost/8080"

Output:

Hello from RESTful Web Service



What if you want to deploy as a war file?

NOTE: The packaging is "war". Also, the "spring-boot-starter-tomcat" is added as "provided".

1

```
2
   xsi:schemaLocation="http://maven.apache.org/
4
       <modelVersion>4.0.0</modelVersion>
5
       <groupId>com.mytutorial
6
       <artifactId>simple-spring-boot</artifactId>
       <packaging>war</packaging>
<version>1.0-SNAPSHOT</version>
7
8
9
       <name>simple-spring-boot</name>
10
       <url>http://maven.apache.org</url>
11
12
       <parent>
13
           <groupId>org.springframework.boot</group</pre>
14
           <artifactId>spring-boot-starter-parent</
15
           <version>1.3.0.RELEASE
16
       </parent>
17
18
       <dependencies>
19
           <dependency>
20
               <groupId>junit
21
               <artifactId>junit</artifactId>
22
               <scope>test</scope>
23
           </dependency>
24
25
           <dependency>
26
               <groupId>org.springframework.boot
27
               <artifactId>spring-boot-starter-web<</pre>
28
           </dependency>
29
30
           <dependency>
31
               <groupId>org.springframework.boot
32
               <artifactId>spring-boot-starter-tomc
33
               <scope>provided</scope>
34
           </dependency>
35
       </dependencies>
36
37
       <build>
38
           <plugins>
39
               <plugin>
40
                   <!-- Build an executable jar -->
41
                   <groupId>org.apache.maven.plugin
42
                   <artifactId>maven-jar-plugin</ar
43
                   <configuration>
44
                       <archive>
                            <manifest>
45
46
                                <addClasspath>true</
47
                                <classpathPrefix>lib
48
                                <mainClass>com.mytut
49
                            </manifest>
50
                       </archive>
51
                   </configuration>
52
               </plugin>
53
               <plugin>
54
                   <groupId>org.springframework.boo
55
                   <artifactId>spring-boot-maven-pl
56
               </plugin>
57
           </plugins>
58
       </build>
59
   </project>
60
61
```

Popular Member Posts

◆ 11 Spring boot interview questions & answers

904 views

♦ Q11-Q23: Top 50+ Core on Java OOP Interview Questions & Answers

816 views

001A: ♦ 7+ Java integration styles & patterns interview questions & answers

427 views

18 Java scenarios based interview Questions and Answers

407 views

♦ 7 Java debugging interview questions & answers

321 views

01b: ♦ 13 Spring basics Q8 – Q13 interview questions & answers

310 views

01: ♦ 15 Ice breaker questions asked 90% of the time in Java job interviews with hints

302 views

◆ 10 ERD (Entity-Relationship Diagrams) Interview Questions and Answers

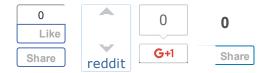
301 views

◆ Q24-Q36: Top 50+ Core on Java classes, interfaces and generics interview questions & answers

251 views

001B: ♦ Java architecture & design concepts interview questions & answers

209 views



Latest Posts



Bio

Arulkumaran Kumaraswamipillai

Mechanical Eng to freelance Java developer in 3 yrs. Contracting since 2003, and attended 150+ Java job interviews, and often got 4 - 7 job offers to choose from. It

pays to prepare. So, published Java interview Q&A books via Amazon.com in 2005, and sold 35,000+ copies. Books are outdated and replaced with this subscription based site.945+ paid members. join my LinkedIn Group. Reviews



About Arulkumaran Kumaraswamipillai

Mechanical Eng to freelance Java developer in 3 yrs. Contracting since 2003, and attended 150+ Java job interviews, and often got 4 - 7 job offers

to choose from. It pays to prepare. So, published Java interview Q&A books via Amazon.com in 2005, and sold 35,000+ copies. Books are outdated and replaced with this subscription based site.945+ paid members. join my LinkedIn Group. Reviews

01: Simple Spring Boot Tutorial in 8 steps

Spring IO tutorial in 6 steps >

Posted in member-paid, Spring boot, Spring Boot Tutorial

Empowers you to open more doors, and fast-track

Technical Know Hows

- * Java generics in no time * Top 6 tips to transforming your thinking from OOP to FP * How does a HashMap internally work? What is a hashing function?
- * 10+ Java String class interview Q&As * Java auto un/boxing benefits & caveats * Top 11 slacknesses that can come back and bite you as an experienced Java developer or architect

Non-Technical Know Hows

* 6 Aspects that can motivate you to fast-track your career & go places * Are you reinventing yourself as a Java developer? * 8 tips to safeguard your Java career against offshoring * My top 5 career mistakes

Prepare to succeed

<u>Turn readers of your Java CV go from "Blah blah" to "Wow"?</u> <u>★ How to prepare for Java job interviews?</u> <u>★ 16 Technical Key Areas</u> <u>★ How to choose from multiple Java job offers?</u>

Select Category

V

© Disclaimer

The contents in this Java-Success are copy righted. The author has the right to correct or enhance the current content without any prior notice.

These are general advice only, and one needs to take his/her own circumstances into consideration. The author will not be held liable for any damages caused or alleged to be caused either directly or indirectly by these materials and resources. Any trademarked names or labels used in this blog remain the property of their respective trademark owners. No guarantees are made regarding the accuracy or usefulness of content, though I do make an effort to be accurate. Links to external sites do not imply endorsement of the linked-to sites.

 \uparrow

© 2016 Java-Success.com

Responsive Theme powered by WordPress