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Spring Controller Unit Testing

Posted on [October 3, 2015](#) by [Arulkumaran Kumaraswamipillai](#)

This Spring controller unit test is based on

[HATEOAS RESTFul Service with Spring tutorial](#). The request URL and JSON response content are shown below.

REQUEST URL: <http://localhost:8080/simpleSpring/greeting?name=John>

RESPONSE JSON: {"content":"Hello, John!","links":[{"rel":"self","href":"http://localhost:8080/simpleSpring/greeting?name=John"}]}

REQUEST URL: <http://localhost:8080/simpleSpring/greeting>

RESPONSE JSON: {"content":"Hello, World!","links":[{"rel":"self","href":"http://localhost:8080/simpleSpring/greeting?name=World"}]}

The first step is to have the relevant jars for testing in the pom.xml file.

Step 1: The pom.xml for the testing.

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```

1 <project xmlns="http://maven.apache.org/POM/4.0.
2   xsi:schemaLocation="http://maven.apache.org/
3   <modelVersion>4.0.0</modelVersion>
4
5   <groupId>com.mytutorial</groupId>
6   <artifactId>simpleSpringRestWeb</artifactId>
7   <version>1.0-SNAPSHOT</version>
8   <packaging>war</packaging>
9
10  <name>simpleSpringRestWeb</name>
11  <url>http://maven.apache.org</url>
12
13  <properties>
14    <project.build.sourceEncoding>UTF-8</pro
15    <slf4j.version>1.7.10</slf4j.version>
16    <commons-logging.version>1.1.1</commons-
17  </properties>
18
19  <dependencies>
20    <!-- JUnit -->
21    <dependency>
22      <groupId>junit</groupId>
23      <artifactId>junit</artifactId>
24      <version>4.11</version>
25      <scope>test</scope>
26    </dependency>
27
28    <!-- Mockito -->
29    <dependency>
30      <groupId>org.mockito</groupId>
31      <artifactId>mockito-all</artifactId>
32      <version>1.9.0</version>
33      <scope>test</scope>
34    </dependency>
35
36    <!-- Hamcrest -->
37    <dependency>
38      <groupId>org.hamcrest</groupId>
39      <artifactId>hamcrest-all</artifactId>
40      <version>1.3</version>
41      <scope>test</scope>
42    </dependency>
43
44    <!-- Spring test -->
45    <dependency>
46      <groupId>org.springframework</groupI
47      <artifactId>spring-test</artifactId>
48      <version>4.0.9.RELEASE</version>
49      <scope>test</scope>
50    </dependency>
51
52    <!-- JSON test -->
53    <dependency>
54      <groupId>com.jayway.jsonpath</groupI
55      <artifactId>json-path</artifactId>
56      <version>0.8.1</version>
57      <scope>test</scope>
58    </dependency>
59    <dependency>
60      <groupId>com.jayway.jsonpath</groupI
61      <artifactId>json-path-assert</artifa
62      <version>0.8.1</version>
63      <scope>test</scope>
64    </dependency>
65

```

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- Memory Managemen

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- QoS (8)

- Scalability (4)

- SDLC (6)

- Security (13)

- Transaction Managen

```

66         //... othe Spring, logging depenedncies
67
68     </dependencies>
69 </project>

```

Step 2: The unit testing

```

1  package com.mytutorial;
2
3  import static org.springframework.test.web.servl
4
5  import org.hamcrest.Matchers;
6  import org.junit.Before;
7  import org.junit.Test;
8  import org.junit.runner.RunWith;
9  import org.springframework.beans.factory.annotat
10 import org.springframework.test.context.ContextC
11 import org.springframework.test.context.junit4.S
12 import org.springframework.test.context.web.WebA
13 import org.springframework.test.web.servlet.Mock
14 import org.springframework.test.web.servlet.requ
15 import org.springframework.test.web.servlet.resu
16 import org.springframework.web.context.WebApplic
17
18
19 @WebAppConfiguration
20 @ContextConfiguration(
21     classes = SimpleConfig.class)
22
23 @RunWith(SpringJUnit4ClassRunner.class)
24 public class HelloControllerImplTest {
25
26
27     private MockMvc mockMvc;
28
29     @Autowired
30     private WebApplicationContext applicationCon
31
32     @Before
33     public void setUp() throws Exception {
34         mockMvc = webAppContextSetup(application
35     }
36
37     @Test
38     public void testSayHello() throws Exception
39         mockMvc.perform(MockMvcRequestBuilders
40             .get("/greeting")).andExpect(Mock
41             .isOk());
42
43     }
44
45     @Test
46     public void testSayHello2() throws Exception
47         mockMvc.perform(MockMvcRequestBuilders
48             .get("/greeting?name=John")).and
49             .isOk()
50             .andExpect(MockMvcResultMatchers.
51             .andExpect(MockMvcResultMatchers.
52             .andExpect(MockMvcResultMatchers
53     }
54
55 }

```

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Step 3: The Spring MVC controller class being tested

```

1 package com.mytutorial;
2
3 //linkTo & methodOn static methods are from Cont
4 import static org.springframework.hateoas.mvc.Co
5 import static org.springframework.hateoas.mvc.Co
6
7 import org.springframework.http.HttpEntity;
8 import org.springframework.http.HttpStatus;
9 import org.springframework.http.ResponseEntity;
10 import org.springframework.stereotype.Controller
11 import org.springframework.web.bind.annotation.R
12 import org.springframework.web.bind.annotation.R
13 import org.springframework.web.bind.annotation.R
14
15
16 @Controller
17 public class HelloControllerImpl {
18
19     private static final String FORMAT = "Hello,
20
21     @RequestMapping("/greeting")
22     @ResponseBody
23     public HttpEntity<Hello> sayHello(@RequestPa
24         value = "name",
25         required = false,
26         defaultValue = "World") String name) {
27
28         Hello hello = new Hello(String.format(F0
29         hello.add(linkTo(methodOn(HelloControlle
30         return new ResponseEntity<Hello>(hello,
31     }
32 }

```

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