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03: Spring boot **MVC** tutorial with thymeleaf & bean validation

Posted on July 11, 2016 by Arulkumaran Kumaraswamipillai

Step 1: Create a "simple-spring-mvc" maven project.

```
C:\Users\java-_000\projects>mvn archetype:generat
```

Step 2: Import the project into eclipse. File > Import -> Existing Maven Projects and select "C:\Users\java-_000\projects\simple-spring-mvc".

Step 3: The **pom.xml** file should look like:

```
2
3
  xsi:schemaLocation="http://maven.apache.org/
     <modelVersion>4.0.0</modelVersion>
5
     <groupId>com.mytutorial
6
     <artifactId>simple-spring-boot</artifactId>
     <packaging>jar</packaging>
     <version>1.0-SNAPSHOT</version>
```

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```
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```

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 - 04 ♦ 17 Spring b

```
9
       <name>simple-spring-boot</name>
10
       <url>http://maven.apache.org</url>
11
12
       <parent>
13
           <groupId>org.springframework.boot
14
           <artifactId>spring-boot-starter-parent</
15
           <version>1.3.6.RELEASE
16
       </parent>
17
18
       <dependencies>
19
           <dependency>
20
               <groupId>junit
               <artifactId>junit</artifactId>
21
22
               <scope>test</scope>
23
           </dependency>
24
25
           <dependency>
26
               <aroupId>ora.sprinaframework.boot</a
27
               <artifactId>spring-boot-starter-thym
28
           </dependency>
29
30
           <dependency>
31
              <groupId>javax.validation</groupId>
32
              <artifactId>validation-api</artifactI
33
              <version>1.1.0.Final</version>
34
           </dependency>
35
       </dependencies>
36
37
       <build>
38
           <plugins>
39
               <plugin>
40
                    <groupId>org.springframework.boo
41
                    <artifactId>spring-boot-maven-pl
42
               </plugin>
43
           </plugins>
44
       </build>
45
46 </project>
```

"spring-boot-starter-thymeleaf" is used instead of "spring-boot-starter-web" as it allows you to use **html**s instead of JSPs

Step 4: POJO (Plain Old Java Object) with annotations for input validation. This is the "Model" of the MVC pattern

```
package com.mytutorial;

import javax.validation.constraints.Min;
import javax.validation.constraints.NotNull;
import javax.validation.constraints.Size;

public class LicenceForm {

    @Size(min = 2, max = 40)
    private String name;
}
```

```
-05: ♦ 9 Spring Be
-06: ♥ Debugging
-07: Debugging S
--Spring loading p
--Hibernate (13)
-
```

16 Technical Key Areas

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```
13
       @NotNull
14
       @Min(16)
15
       private Integer age;
16
17
       public String getName() {
18
            return name;
19
20
21
       public void setName(String name) {
22
            this.name = name;
23
24
25
       public Integer getAge() {
26
            return age;
27
28
29
       public void setAge(Integer age) {
30
            this.age = age;
31
32
33
       @Override
34
       public String toString() {
35
            return "LicenceForm [name=" + name + ",
36
37 }
38
```

"name" must be between 2 to 40 character long. The "age" must NOT be null and greater than or equal to 16.

Step 5: "Controller" of the MVC pattern.

```
package com.mytutorial;
   import javax.validation.Valid;
   import org.springframework.stereotype.Controller
   import org.springframework.validation.BindingRes
   import org.springframework.web.bind.annotation.R
   import org.springframework.web.bind.annotation.R
10 import org.springframework.web.servlet.config.an
11 import org.springframework.web.servlet.config.an
12
13 @Controller
   public class LicenceController extends WebMvcCon
14
15
16
       @RequestMapping(value = "/", method = Reques
17
       public String showForm(LicenceForm licenceFo
           return "licence-form";
18
19
20
       @RequestMapping(value = "/", method = Reques
21
22
       public String submitForm(@Valid LicenceForm
23
24
           if (bindingResult.hasErrors()) {
25
               return "licence-form";
26
27
28
           return "redirect:/results";
29
```

```
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- 4 Converting nonity to
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- Passing the unit tests
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```
30
31 @Override
32 public void addViewControllers(ViewControlle
33 registry.addViewController("/results").s
34 }
35
36 }
37
```

How good are your?

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Step 6: "Views" of the MVC pattern.

Firstly, the "Get" page stored under

"src/main/resources/templates" folder. You can create the src/main/resources folder by right-clicking "Build Path", and then "New Source Folder", and then "src/main/resources". Then add new folder "templates" inside.

create "licence-form.html" under src/main/resources/templates.

```
<html>
3
4
  <body>
5
6
       <form action="#" th:action="@{/}" th:object=</pre>
7
8
           9
               10
                   Licensee Name:
                   <input type="text" th:field=
11
                   <td th:if="${#fields.hasErrors('
12
13
                      Error
14
               15
16
               Licensee Age:
="text" th:field=
th:if="${#fields.hasErrors('
17
18
19
20
                       Error
21
               22
23
24
                   <button type="submit">Submit
25
               26
           27
       </form>
28 </body>
29
30 </html>
```

create "results.html" under src/main/resources/templates.

```
1
2 <html>
3 <body>You can apply for a license</body>
4 </html>
5
```

Step 7: Finally, modify the "App.java" as shown below, which can be run within the embedded **Tomcat** server.

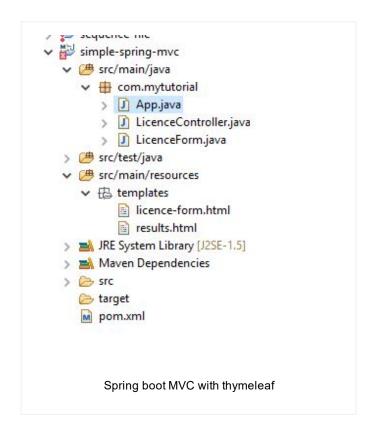
```
package com.mytutorial;

import org.springframework.boot.SpringApplicatio
import org.springframework.boot.autoconfigure.Sp

@SpringBootApplication
class App {
   public static void main(String[] args) {
        SpringApplication.run(App.class, args);
}

SpringApplication.run(App.class, args);
}
```

You should now have all the required artifacts.

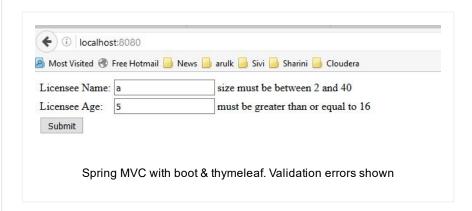


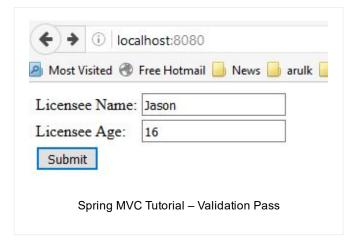
Run the Spring MVC app

```
1
2 C:\Users\java-_000\projects\simple-spring-mvc>mvn
3
```

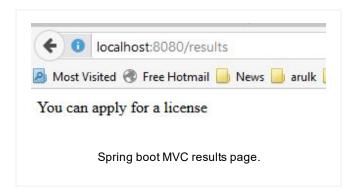
This builds the jar file and deploys to Tomcat on port **8080** on your **localhost**.

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