Java EE

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Le framework Spring
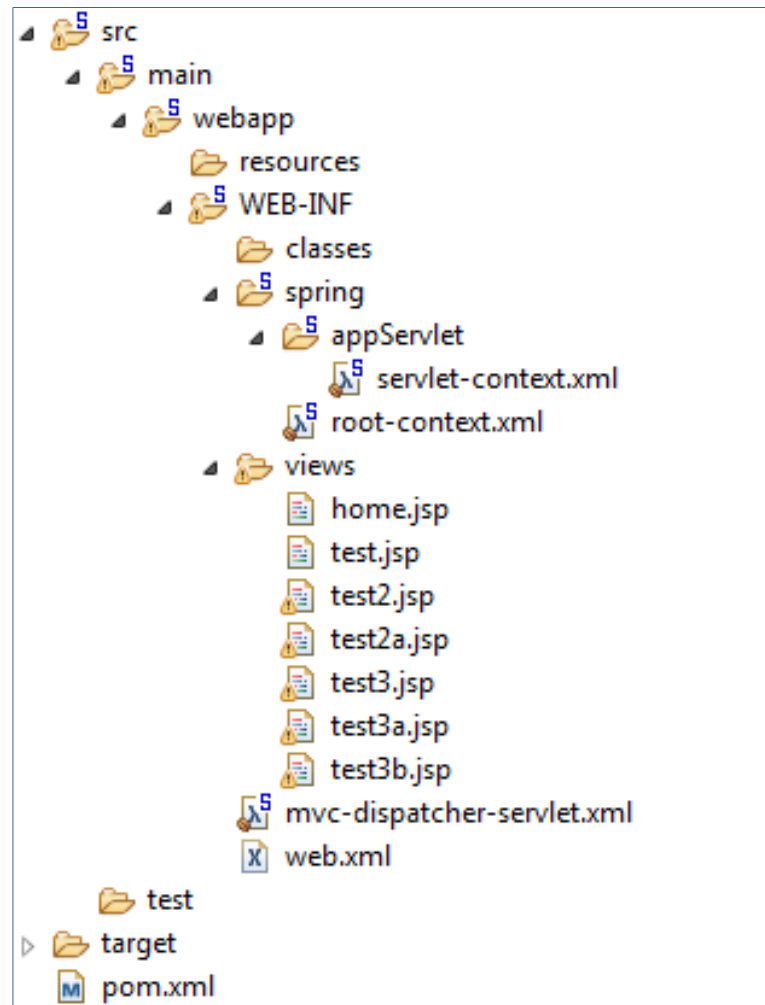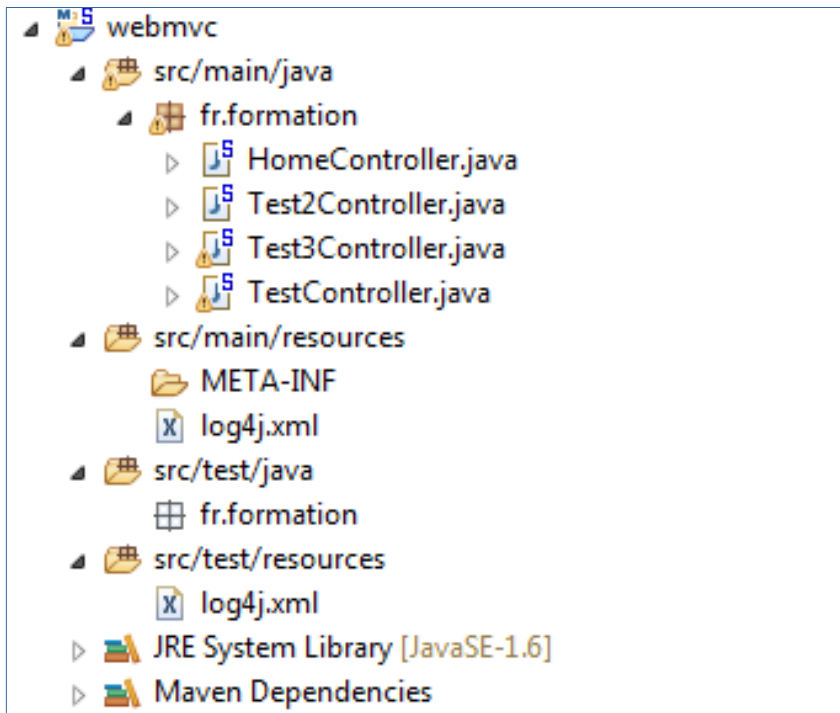
Spring MVC : les views

Sommaire

- Différentes manières de lier les vues et les contrôleurs

Vue d'ensemble du projet webmvc

Vue de la page web

Bonjour !

The time on the server is 01 janvier 2018 09:16:02 CEST.

url	description
test2	utilisation de ModelAndView
test 2a	utilisation de Model
test3 ok	@requestParam (paramètre attendu ET fourni)
test3 ko	@requestParam (paramètre attendu ET non fourni)
test 3a ok	@requestParam (paramètre optionnel ET fourni)
test 3a ko	@requestParam (paramètre optionnel ET non fourni)
test 3b ok	param (int). optionnel @requestParam
test 3b ko	param (int). optionnel @requestParam

```
                                              web.xml

 1  <?xml version="1.0" encoding="UTF-8"?>
 2  <web-app version="2.5" xmlns="http://java.sun.com/xml/ns/javaee"
 3      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 4      xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd">
 5
 6      <!-- The definition of the Root Spring Container shared by all Servlets and Filters -->
 7      <context-param>
 8          <param-name>contextConfigLocation</param-name>
 9          <param-value>/WEB-INF/spring/root-context.xml</param-value>
10      </context-param>
11
12      <!-- Creates the Spring Container shared by all Servlets and Filters -->
13      <listener>
14          <listener-class>org.springframework.web.context.ContextLoaderListener</listener-class>
15      </listener>
16
17      <!-- Processes application requests -->
18      <servlet>
19          <servlet-name>appServlet</servlet-name>
20          <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
21          <init-param>
22              <param-name>contextConfigLocation</param-name>
23              <param-value>/WEB-INF/spring/appServlet/servlet-context.xml</param-value>
24          </init-param>
25          <load-on-startup>1</load-on-startup>
26      </servlet>
27
28      <servlet-mapping>
29          <servlet-name>appServlet</servlet-name>
30          <url-pattern>/</url-pattern>
31      </servlet-mapping>
32
```

```jsp
home.jsp ⌘

 1  <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
 2  <%@ page session="false" %>
 3  <html>
 4  <head>
 5      <title>Home</title>
 6  </head>
 7  <body>
 8  <h1>
 9      Bonjour !
10  </h1>
11  <style>
12  table, p, h1, li {
13      font-family: arial, sans-serif;
14      border-collapse: collapse;
15      width: 100%;
16  }
17
18  td, th {
19      border: 1px solid #dddddd;
20      text-align: left;
21      padding: 8px;
22  }
23
24  tr:nth-child(even) {
25      background-color: #dddddd;
26  }
27  </style>
```

```
28
29  <P>   The time on the server is ${serverTime}. </P>
30
31⊖ <table>
32  <tr><th>url </th><th>description</th></tr>
33  <tr><td><a href="test2"> test2 </a></td><td>utilisation de ModelAndView</td></tr>
34  <tr><td><a href="test2a"> test 2a</a></td><td>utilisation de Model</td></tr>
35  <tr><td><a href="test3?param=testMode">test3 ok</a></td><td> @requestParam (paramètre attendu ET fourni)</td></tr>
36  <tr><td><a href="test3">test3 ko</a></td><td> @requestParam (paramètre attendu ET non fourni)</td></tr>
37  <tr><td><a href="test3a?param=testMode">test 3a ok </a></td><td>@requestParam (paramètre optionnel ET fourni)</td></tr>
38  <tr><td><a href="test3a"> test 3a ko</a></td><td>@requestParam (paramètre optionnel ET non fourni)</td></tr>
39  <tr><td><a href="test3b?param=33"> test 3b ok </a></td><td>param (int). optionnel @requestParam</td></tr>
40  <tr><td><a href="test3b"> test 3b ko </a></td><td>param (int). optionnel @requestParam</td></tr>
41  </table>
42  </body>
43  </html>
44
```

```java
Test2Controller.java ⊠

 1  package fr.formation;
 2
 3⊕ import java.util.HashMap;▯
15
16⊝ /**
17   * Handles requests for the application home page.
18   */
19  @Controller
20  public class Test2Controller {
21
22      private static final Logger logger = LoggerFactory.getLogger(Test2Controller.class);
23
24⊝     /**
25       * Simply selects the home view to render by returning its name.
26       */
27⊝     @RequestMapping(value = "/test2")
28      public ModelAndView newHome(HttpServletRequest req , HttpServletResponse rep) {
29          logger.info("Welcome at Test2!");
30
31          Map<String, Object> model = new HashMap<String,Object>();
32
33          model.put("un", "janvier");
34          model.put("deux", "février");
35          model.put("trois", "mars");
36
37          return new ModelAndView("test2","data", model);
38      }
39
40⊝     @RequestMapping(value = "/test2a")
41      public String noModel(Model model) {
42          logger.info("Welcome at Test2a!");
43
44          //Map<String, Object> model = new HashMap<String,Object>();
45
46          model.addAttribute("un", "lundi");
47          model.addAttribute("deux", "mardi");
48          model.addAttribute("trois", "mercredi");
49
50          return "test2a";
51      }
52
53  }
```

```
test2.jsp

1   <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
2   <%@ page session="false" %>
3   <html>
4   <head>
5       <title>Test2</title>
6   </head>
7   <body>
8   <h1>
9       Bonjour depuis la jsp test2 !
10  </h1>
11
12  <style>
29
30  <P>  la servlet a envoyé les valeurs suivantes : </P>
31  <table>
32  <tr><th>clé </th><th>Valeur</th></tr>
33  <c:forEach var="entry" items="${data}">
34  <tr><td>${entry.key} </td><td>${entry.value}</td></tr>
35  </c:forEach>
36  </table>
37  </body>
38  </html>
39
```

```jsp
1  <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
2  <%@ page session="false" %>
3  <html>
4  <head>
5      <title>Test2a</title>
6  </head>
7  <body>
8  <h1>
9      Bonjour depuis la jsp test2a !
10 </h1>
11
12 <style>
29
30 <P>  la servlet a envoyé les valeurs suivantes : </P>
31 <P>  un : ${un} </P>
32 <table>
33 <tr><th>clé </th><th>Valeur</th></tr>
34 <tr><td>un </td><td>${un}</td></tr>
35 <tr><td>deux </td><td>${deux}</td></tr>
36 <tr><td>trois </td><td>${trois}</td></tr>
37 </table>
38 </body>
39 </html>
40
```

```java
package fr.formation;

import java.util.HashMap;

/**
 * Handles requests for the application home page.
 */
@Controller
public class Test3Controller {

    private static final Logger logger = LoggerFactory.getLogger(Test3Controller.class);

    /**
     * Simply selects the home view to render by returning its name.
     */
    @RequestMapping(value = "/test3")
    public String  newHome(@RequestParam String param, Model model) throws Exception {
        if (param.equals(null)) param = "erreur";
        logger.info("Welcome at Test3! : {}" ,param);

        model.addAttribute("chaine", param );

        return "test3";
    }

}
```

```java
39    @RequestMapping(value = "/test3a")
40    public String  option(
41            @RequestParam (value="param", required=false) String param, Model model) throws Exception {
42        if (param == null) param = "param absent";
43        logger.info("Welcome at Test3a! : {}" ,param);
44
45        model.addAttribute("chaine", param );
46
47        return "test3";
48    }
49
50    @RequestMapping(value = "/test3b")
51    public String  option(
52            @RequestParam (value="param", required=false) Integer param, Model model) throws Exception {
53
54        logger.info("Welcome at Test3b! : {}" , param);
55        if (param == null) param = 999;
56
57        model.addAttribute("chaine", param + 1000);
58
59        return "test3b";
60    }
61
62 }
36        return "test3";
37    }
38
```

```jsp
 1 <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
 2 <%@ page session="false" %>
 3 <html>
 4 <head>
 5     <title>Test3</title>
 6 </head>
 7 <body>
 8 <h1>
 9     Bonjour depuis la jsp test3 !
10 </h1>
11
12 <style>
13 table, p, h1 {
14     font-family: arial, sans-serif;
15     border-collapse: collapse;
16     width: 100%;
17 }
18
19 td, th {
20     border: 1px solid #dddddd;
21     text-align: left;
22     padding: 8px;
23 }
24
25 tr:nth-child(even) {
26     background-color: #dddddd;
27 }
28 </style>
29
30 <P>  la servlet a envoyé la valeur suivante : ${chaine } </P>
31 </body>
32 </html>
33
```

```
 1 <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
 2 <%@ page session="false" %>
 3 <html>
 4 <head>
 5     <title>Test3a</title>
 6 </head>
 7 <body>
 8 <h1>
 9     Bonjour depuis la jsp test3a !
10 </h1>
11
12 <style>
13 table, p, h1 {
14     font-family: arial, sans-serif;
15     border-collapse: collapse;
16     width: 100%;
17 }
18
19 td, th {
20     border: 1px solid #dddddd;
21     text-align: left;
22     padding: 8px;
23 }
24
25 tr:nth-child(even) {
26     background-color: #dddddd;
27 }
28 </style>
29
30 <P>  la servlet a envoyé la valeur suivante : ${chaine } </P>
31 </body>
32 </html>
33
```

```jsp
1 <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
2 <%@ page session="false" %>
3 <html>
4 <head>
5     <title>Test3b</title>
6 </head>
7 <body>
8 <h1>
9     Bonjour depuis la jsp test3b !
10 </h1>
11
12 <style>
13 table, p, h1 {
14     font-family: arial, sans-serif;
15     border-collapse: collapse;
16     width: 100%;
17 }
18
19 td, th {
20     border: 1px solid #dddddd;
21     text-align: left;
22     padding: 8px;
23 }
24
25 tr:nth-child(even) {
26     background-color: #dddddd;
27 }
28 </style>
29
30 <P>  la servlet a envoyé la valeur suivante : ${chaine } </P>
31 </body>
32 </html>
33
```