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ABOUT THODORIS BAIS



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Radio Buttons Example with JSF 2.0

Posted by: Thodoris Bais | in jsf | February 4th, 2014

So today, we're gonna talk about radiobuttons' integration together with JSF 2.0 and Eclipse IDE. In JSF, we can use the

```
h:selectOneRadio
```

tag, in order to create a radiobutton like input element.

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For example, assume the following JSF code:

```
1 <h:selectOneRadio value="#{user.favoriteBMW}">
2   <f:selectItem itemValue="335" itemLabel="BMW 335" />
3   <f:selectItem itemValue="316" itemLabel="BMW 316" />
4   <f:selectItem itemValue="M3 SMG" itemLabel="BMW M3 SMG" />
5 </h:selectOneRadio>
```

The afore-mentioned code is somehow translated to our familiar HTML format, with JSF to autoembedding the whole

```
selectOneRadio
```

's structure into a proper HTML table. Indeed, JSF cares about style. One more thing, before getting into code: There are 3 possible ways that let us render radiobuttons, according to

```
h:selectOneRadio
```

:

1. By hardcoding the values into

```
f:selectItem
```

tag.

2. By generating values (using a Java Map) and putting them into

```
f:selectItem
```

tag.

3. By generating values (using an Object array) and putting the into

```
f:selectItem
```

tags; then, we have to represent the value with a

```
var
```

attribute

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1. Backing Bean

Here is our Backing Bean that holds the submitted data:

[UserBean.java](#)

```
01 package com.javacodegeeks.enterprise.jsf.radiobuttons;
02
03 import java.io.Serializable;
04 import java.util.Map;
05 import java.util.LinkedHashMap;
06 import javax.faces.bean.ManagedBean;
07 import javax.faces.bean.SessionScoped;
08
09 @ManagedBean
10 @SessionScoped
11 public class UserBean implements Serializable{
12
13     private static final long serialVersionUID = 7134492943336358840L;
14
15     String favoriteCar1, favoriteCar2, favoriteCar3;
16
17     public String getFavoriteCar1() {
18         return favoriteCar1;
19     }
20
21     public void setFavoriteCar1(String favoriteCar1) {
22         this.favoriteCar1 = favoriteCar1;
23     }
24
25     public String getFavoriteCar2() {
26         return favoriteCar2;
27     }
28
29     public void setFavoriteCar2(String favoriteCar2) {
30         this.favoriteCar2 = favoriteCar2;
31     }
32
33     public String getFavoriteCar3() {
34         return favoriteCar3;
35     }
36
37     public void setFavoriteCar3(String favoriteCar3) {
38         this.favoriteCar3 = favoriteCar3;
39     }
40
41     //generated by Map
42     private static Map<String, Object> car2Value;
43     static
44     {
45         car2Value = new LinkedHashMap<String, Object>();
46         car2Value.put("BMW 335", "335"); //label, value
47         car2Value.put("BMW 316", "316");
48         car2Value.put("BMW M3 SMG", "M3 SMG");
49     }
50
51     public Map<String, Object> getFavoriteCar2Value()
52     {
53         return car2Value;
54     }
55
56     //generated by Object array
57     public static class Car
58     {
59         public String carLabel;
60         public String carValue;
61
62         public Car(String carLabel, String carValue)
63         {
64             this.carLabel = carLabel;
65             this.carValue = carValue;
66         }
67
68         public String getCarLabel(){
69             return carLabel;
70         }
71
72         public String getCarValue(){
73             return carValue;
74         }
75     }
76
77
78     public Car[] car3List;
79     public Car[] getFavoriteCar3Value()
80     {
81         car3List = new Car[3];
82
83
84         car3List[0] = new Car("BMW 335", "335");
85
86         car3List[1] = new Car("BMW 316", "316");
87         car3List[2] = new Car("BMW M3 SMG", "M3 SMG");
88
89         return car3List;
90     }
91 }
```

2. JSF Pages

The first page will display the three fore-mentioned JSF radiobutton techniques:

[index.xhtml](#)

```
01 <?xml version="1.0" encoding="UTF-8"?>
02 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
03 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
04 <html xmlns="http://www.w3.org/1999/xhtml"
05       xmlns:h="http://java.sun.com/jsf/html"
06       xmlns:f="http://java.sun.com/jsf/core" >
07
08     <h:head>
09         <title>JSF RadioButtons Example</title>
10     </h:head>
```

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NM, OK & TX**
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Web Developer - Entry Level **Verizon**
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JAVA Developer **Advanced Technology Group
Inc**
Greenwood Village, CO
Oct, 06

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```

11
12 <h:body>
13 <h1>JSF 2.0 RadioButtons Example</h1>
14
15 <h:form>
16 1. Hardcoded with "f:selectItem" :
17 <h:selectOneRadio value="#{user.favoriteCar1}">
18 <f:selectItem itemValue="335" itemLabel="BMW 335" />
19 <f:selectItem itemValue="316" itemLabel="BMW 316" />
20 <f:selectItem itemValue="M3 SMG" itemLabel="BMW M3 SMG" />
21 </h:selectOneRadio>
22
23 <br/>
24
25 2. Generated by Map:
26 <h:selectOneRadio value="#{user.favoriteCar2}">
27 <f:selectItems value="#{user.favoriteCar2Value}" />
28 </h:selectOneRadio>
29
30 <br/>
31
32 3. Generated by Object Array; access with "var"
33 <h:selectOneRadio value="#{user.favoriteCar3}">
34 <f:selectItems value="#{user.favoriteCar3Value}" var="c"
35 itemLabel="#{c.carLabel}" itemValue="#{c.carValue}" />
36 </h:selectOneRadio>
37
38 <br/>
39
40 <h:commandButton value="Submit" action="response"/>
41 <h:commandButton value="Reset" type="reset"/>
42 </h:form>
43 </h:body>
44 </html>

```

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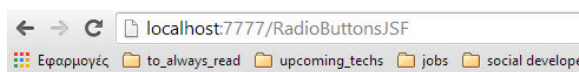
response.xhtml

```

01 <?xml version="1.0" encoding="UTF-8"?>
02 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
03 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
04 <html xmlns="http://www.w3.org/1999/xhtml"
05 xmlns:h="http://java.sun.com/jsf/html">
06
07 <h:body>
08 <h1>JSF 2.0 RadioButton Example - Response Page</h1>
09
10 <ol>
11 <li>user.favoriteCar1 : #{user.favoriteCar1}</li>
12 <li>user.favoriteCar2 : #{user.favoriteCar2}</li>
13 <li>user.favoriteCar3 : #{user.favoriteCar3}</li>
14 </ol>
15
16 </h:body>
17 </html>

```

3. Demo



JSF 2 RadioButtons Example

1. Hardcoded with "f:selectItem" :

☐ BMW 335 ☐ BMW 316 ☐ BMW M3 SMG

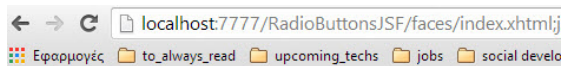
2. Generated by Map:

☐ BMW 335 ☒ BMW 316 ☐ BMW M3 SMG

3. Generated by Object Array; access with "var"

☐ BMW 335 ☐ BMW 316 ☒ BMW M3 SMG

Submit Reset



JSF 2.0 RadioButton Example - R

1. user.favoriteCar1 : 335
2. user.favoriteCar2 : 316
3. user.favoriteCar3 : M3 SMG



This was an example of Radio Buttons in JSF 2.0. You can also download the source code for this example: RadioButtonsJSF.zip

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