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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.

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

1. Backing Bean

Here is our Backing Bean that holds the submitted data:

`UserBean.java`

```java
package com.javacodegeeks.enterprise.jsf.radiobuttons;

import java.io.Serializable;
import java.util.Map;
import java.util.LinkedHashMap;
import javax.faces.bean.ManagedBean;
import javax.faces.bean.SessionScoped;

@ManagedBean
@SessionScoped
public class UserBean implements Serializable{

    private static final long serialVersionUID = 7134492943336358840L;

    String favoriteCar1, favoriteCar2, favoriteCar3;

    public String getFavoriteCar1() {
        return favoriteCar1;
    }

    public void setFavoriteCar1(String favoriteCar1) {
        this.favoriteCar1 = favoriteCar1;
    }

    public String getFavoriteCar2() {
        return favoriteCar2;
    }

    public void setFavoriteCar2(String favoriteCar2) {
        this.favoriteCar2 = favoriteCar2;
    }

    public String getFavoriteCar3() {
        return favoriteCar3;
    }

    public void setFavoriteCar3(String favoriteCar3) {
        this.favoriteCar3 = favoriteCar3;
    }

    //generated by Map
    private static Map<String, Object> car2Value;
    static
    {
        car2Value = new LinkedHashMap<String, Object>();

        car2Value.put("BMW 335", "335"); //label, value
        car2Value.put("BMW 316", "316");
        car2Value.put("BMW M3 SMG", "M3 SMG");
    }

    public Map<String, Object> getFavoriteCar2Value()
    {
        return car2Value;
    }

    //generated by Object array
    public static class Car
    {
        public String carLabel;
        public String carValue;

        public Car(String carLabel, String carValue)
        {
            this.carLabel = carLabel;
            this.carValue = carValue;
        }

        public String getCarLabel(){
            return carLabel;
        }

        public String getCarValue(){
            return carValue;
        }

    }

    public Car[] car3List;
    public Car[] getFavoriteCar3Value()
    {
        car3List = new Car[3];

        car3List[0] = new Car("BMW 335", "335");

        car3List[1] = new Car("BMW 316", "316");
        car3List[2] = new Car("BMW M3 SMG", "M3 SMG");

        return car3List;
    }
}
```

2. JSF Pages

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

`index.xhtml`

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:h="http://java.sun.com/jsf/html"
      xmlns:f="http://java.sun.com/jsf/core" >

    <h:head>
        <title>JSF RadioButtons Example</title>
    </h:head>
```

```
11
12      <h:body>
13          <h1>JSF 2 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>
```
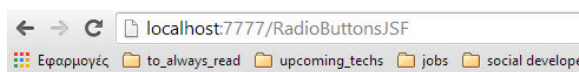
response.xhtml
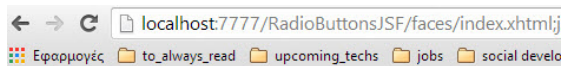
```
01  <?xml version="1.0" encoding="UTF-8"?>
02  <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
03  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
04  <html xmlns="http://www.w3.org/1999/xhtml"
05      xmlns:h="http://java.sun.com/jsf/html">
06
07      <h:body>
08          <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

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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