

Project 3

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IntelliJ Ultimate 2017.1.3

Windows 10

To run this Project, simply unzip and import the main project directory “bookmark” into your IDE. Then, ensure you have the server configured to deploy the “bookmark:war exploded” artifact at launch.

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Changelog

1. Hello.java
2. index.xhtml
3. response.xhtml
4. personal.xhtml

Hello.java

Left file: Hello.java

Right file: Hello.java

```
27      public void doGet(HttpServletRequest request,  
28      HttpServletResponse response)  
27      public void doGet(HttpServletRequest request, HttpServletResponse response)
```

```
38      out.println("<body bgcolor=\"#ffffff\">")  
37      out.println("<body bgcolor=\"#ffffff\">")
```

Changelog

1. Hello.java
2. index.xhtml
3. response.xhtml
4. personal.xhtml

Hello.java

Left file: **Original Hello.java**

Right file: **Modified Hello.java**

```
16     private boolean whippedCream;
17     private boolean chocolate;
18     private String temp;
19     private String roast;
32     public boolean getWhippedCream() {
33         return whippedCream;
34     }
35
36     public void setWhippedCream(boolean wc) {
37         this.whippedCream = wc;
38     }
39
40     public boolean getChocolate() {
41         return chocolate;
42     }
43
44     public void setChocolate(boolean c) {
45         this.chocolate = c;
46     }
```

```
48     public String getTemp() {
49         return temp;
50     }
51
52     public void setTemp(String t) {
53         this.temp = t;
54     }
55
56     public String getRoast() {
57         return roast;
58     }
59
60     public void setRoast(String r) {
61         this.roast = r;
62     }
```

index.xhtml

Left file: [Original index.xhtml](#)

Right file: [Modified index.xhtml](#)

```
13      <html lang="en"
14      xmlns="http://www.w3.org/1999/xhtml"
15      xmlns:h="http://xmlns.jcp.org/jsf/html">
16      <h:head>
17          <title>Bookmarkable URL Example</title>
18      </h:head>
19      <h:body>
20      <h:form>
21      <h:graphicImage url="#{resource['images:duke.waving.gif']}"
22          alt="Duke waving his hand"/>
23      <h2>Hello, my name is Duke. What's yours?</h2>
24      <h:inputText id="username"
25          title="My name is: "
26          value="#{hello.name}"
27          required="true"
28          requiredMessage="Error: A name is required."
29          maxLength="25" />
30      <p></p>
31      <h:commandButton id="submit" value="Submit" action="response" />
32      <h:commandButton id="reset" value="Reset" type="reset" />
33      </h:form>
34      <div class="messagecolor">
35      <h:messages showSummary="true"
36          showDetail="false"
37          errorStyle="color: #d20005"
```

```
38         infoStyle="color: blue"/>
39     </div>
40 </h:body>
41 </html>

13 <html lang="en"
14     xmlns="http://www.w3.org/1999/xhtml"
15     xmlns:h="http://xmlns.jcp.org/jsf/html" xmlns:f="http://xmlns.jcp.org/jsf/core">
16     <h:head>
17         <title>Bookmarkable URL Example</title>
18     </h:head>
19     <h:body>
20         <h:form>
21             <h:graphicImage url="#{resource['images:duke.waving.gif']}"
22                 alt="Duke waving his hand"/>
23             <h2>Coffee Order</h2>
24             <h4>Please fill out the fields below to configure your order!</h4>
25             <b>Name: </b>
26             <h:inputText id="username"
27                 title="My name is: "
28                 value="#{hello.name}"
29                 required="true"
30                 requiredMessage="Error: A name is required."
31                 maxLength="25" />
32         <p></p>
```

```
33     <b>Toppings: </b>
34     <p>Whipped Cream -
35     <h:selectBooleanCheckbox value="#{hello.whippedCream}"
36         title="Whipped Cream"
37         id="whippedCream" />
38     </p>
39     <p>Chocolate -
40     <h:selectBooleanCheckbox value="#{hello.chocolate}"
41         title="Chocolate"
42         id="chocolate" />
43     </p>
44     <p></p>
45     <b>Type: </b>
46     <p>
47     <h:selectOneRadio value = "#{hello.temp}"
48         required="true"
49         requiredMessage="Error: A Type is required.">
50         <f:selectItem itemValue = "Iced" itemLabel = "Iced" />
51         <f:selectItem itemValue = "Hot" itemLabel = "Hot(Regular)" />
52     </h:selectOneRadio>
53     </p>
54     <p></p>
55     <b>Roast: </b>
56     <p>
```



```
57     <h:selectOneListbox value = "#{hello.roast}"
58         required="true"
59         requiredMessage="Error: A Roast is required.">
60         <f:selectItem itemValue = "Light" itemLabel = "Light Roast" />
61         <f:selectItem itemValue = "Medium" itemLabel = "Medium Roast" />
62         <f:selectItem itemValue = "Medium Dark" itemLabel = "Medium Dark Roast" />
63         <f:selectItem itemValue = "Dark" itemLabel = "Dark Roast" />
64     </h:selectOneListbox>
65 </p>
66 <h:commandButton id="submit" value="Submit" action="response" />
67 <h:commandButton id="reset" value="Reset" type="reset" />
68 </h:form>
69 <div class="messagecolor">
70     <h:messages showSummary="true"
71         showDetail="false"
72         errorStyle="color: #d20005"
73         infoStyle="color: blue"/>
74 </div>
75 </h:body>
76 </html>
```

response.xhtml

Left file: Original response.xhtml

Right file: Modified response.xhtml

```
25      <p>I've made your
26      <h:link outcome="personal" value="personal greeting page!"
25      <p>Here is your
26      <h:link outcome="personal" value="Order Summary!"
```

```
28      <f:param name="Result" value="#{hello.name}"/>
28      <f:param name="Name" value="#{hello.name}"/>
29      <f:param name="Whipped Cream" value="#{hello.whippedCream}"/>
30      <f:param name="Chocolate" value="#{hello.chocolate}"/>
31      <f:param name="Temp" value="#{hello.temp}" />
32      <f:param name="Roast" value="#{hello.roast}" />
```

personal.xhtml

Left file: Original personal.xhtml

Right file: Modified personal.xhtml

```
20      <f:viewParam name="Result" value="#{hello.name}" />
20      <f:viewParam name="Name" value="#{hello.name}" />
21      <f:viewParam name="Whipped Cream" value="#{hello.whippedCream}" />
22      <f:viewParam name="Chocolate" value="#{hello.chocolate}" />
23      <f:viewParam name="Temp" value="#{hello.temp}" />
24      <f:viewParam name="Roast" value="#{hello.roast}" />
```

```
23      <h2>Your personal greeting from Duke!</h2>
24      <p>
25          <h:graphicImage url="#{resource['images:duke.waving.gif']}"
26              alt="Duke waving his hand"/>
27          <h:outputText value="Howdy, #{hello.name}!" />
28      </p>
27      <h:graphicImage url="#{resource['images:coffee.jpg']}"
28          alt="Cup of coffee"/>
29      <h2>Order Summary</h2>
30      <table>
31      <tbody>
32      <tr>
33          <td style="font-weight: bold;">Name:</td>
34          <td><h:outputText value="#{hello.name}" /></td>
35      </tr>
36      <tr>
```

```
37         <td style="font-weight: bold;">Whipped Cream:</td>
38         <td><h:outputText value="#{hello.whippedCream}" /></td>
39     </tr>
40     <tr>
41         <td style="font-weight: bold;">Chocolate:</td>
42         <td><h:outputText value="#{hello.chocolate}" /></td>
43     </tr>
44     <tr>
45         <td style="font-weight: bold;">Coffee Type:</td>
46         <td><h:outputText value="#{hello.temp}" /></td>
47     </tr>
48     <tr>
49         <td style="font-weight: bold;">Roast:</td>
50         <td><h:outputText value="#{hello.roast}" /></td>
51     </tr>
52 </tbody>
53 </table>
54 <p></p>
```

Final Product

Upon starting up the server, the web browser should open a page that looks like this!



Coffee Order

Please fill out the fields below to configure your order!

Name:

Toppings:

Whipped Cream - ☐

Chocolate - ☐

Type:

☐ Iced ☐ Hot(Regular)

Roast:

Light Roast	▲
Medium Roast	
Medium Dark Roast	
Dark Roast	▼

It's a Coffee Order form that requests your name, which toppings you want on your coffee, whether you want you coffee hot or iced, and lastly what kind of roast you want.

Next, you will need to enter the information related to the type of coffee you would like to order.



Coffee Order

Please fill out the fields below to configure your order!

Name:

Toppings:

Whipped Cream - ☒

Chocolate - ☒

Type:

☒ Iced ☐ Hot(Regular)

Roast:

Light Roast	▲
Medium Roast	
Medium Dark Roast	
Dark Roast	▼

After filling in the form, and clicking the submit button, you will be shown this page.



Hello, William!

Here is your [Order Summary!](#)

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You then can click on the “Order Summary” link which will take you to this page, containing all your order information.



Order Summary

Name: William
Whipped Cream: true
Chocolate: true
Coffee Type: Iced
Roast: Medium

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Lessons Learned

I thought this project was fun, but I felt it could have been more challenging. The only thing I wasn't 100% sure of how to do was to pass data to the personal.xhtml page. I quickly determined that I had to use the "<f:param" tags to pass the data values. It wasn't too complex using the different tags to create and implement the different GUI elements. But, I will say, this project was a good primer for hopefully more advanced projects to come. Let me know if there's anything I could improve upon!