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ABOUT THODORIS BAIS



Thodoris is an Oracle Certified Associate Java Programmer and currently works as a Junior Software Developer, for Intrasoftware International S.A. He holds a diploma at Informatics & Telecommunications Engineering and is interested in continuous development.



Ajax Example with JSF 2.0

Posted by: Thodoris Bais in jsf January 20th, 2014



Hi there, do you remember right from my last example, today we're gonna talk about integrating **JSF** together with **Ajax**. Ajax stands for Asynchronous Javascript and XML and is also a helpful technique for creating web pages with dynamic content (i.e. when you want to update a single component in your web page, instead of updating the whole page). This is implemented asynchronously by exchanging small amounts of data with the server, in the back-end. For further details about today's example, refer here,

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Everything is set up as is, in the previous two JSF examples, so we'll dive quickly, into the technical part of the example.

1. JSF Page

Here is our JSF page that supports Ajax.

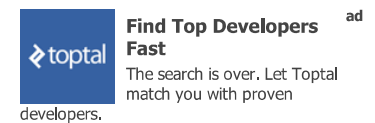
helloAjax.xhtml

```
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:f="http://java.sun.com/jsf/core"
06       xmlns:h="http://java.sun.com/jsf/html">
07
08     <h:head>
09       <title>Ajax JSF Example</title>
10     </h:head>
11     <h:body>
12       <h3>JSF 2.2 Hello Ajax Example</h3>
13
14       <h:form>
15         <h:inputText id="name" value="#{helloBean.name}" />
16         <h:commandButton value="Welcome Me"
17           <f:ajax execute="name" render="output" />
18         </h:commandButton>
19         <h2><h:outputText id="output" value="#{helloBean.sayWelcome}" /></h2>
20       </h:form>
21     </h:body>
22 </html>
```

We'll keep the same base with the previous example, so what will make our site Ajaxable, is the button. Thus, when clicked, it will send a request to the server, instead of submitting the whole form.

The key code branch of the above snippet is this:

<https://examples.javacodegeeks.com/enterprise-java/jsf/ajax-example-with-jsf-2-0/>



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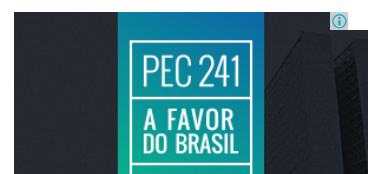
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```

1 <h:commandButton value="Welcome Me">
2   <f:ajax execute="name" render="output"/>
3 </h:commandButton>
4 <h2><h:outputText id="output" value="#{helloBean.sayWelcome}" /></h2>

```

What enables Ajax features of our page is the tag

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1. The

```
execute="name"
```

property indicated that a component, which id is equal to

```
name
```

, will be sent to server for processing. That is, the server is going to search the form component that matches the required id, In our case, we're talking about the value of our

```
inputText
```

Keep in mind, that if we had more than one components that we might want to send to server for processing, we could just split them with a space character; for example,

```
execute="id1 id2 id3"
```

2. What comes after a request (in normal circumstances)? A response, of course, so our

```
render="output"
```

means that the server's response will be rendered to a component, which id is

```
output
```

. Thus, in our case, the response will be displayed in the

```
outputText
```

component.

2. Managed Bean

Before reading the code for

```
HelloBean.java
```

, a small quote for the fore-mentioned key code snippet: the action that will make the

```
outputText
```

take the

```
inputText
```

's value, is its property of

```
value="#{helloBean.sayWelcome}"
```

. If something isn't clear till here, you have to refer to the previous example.

All right, here's the structure of

```
HelloBean.java
```

```
HelloBean.java
```

```

01 import java.io.Serializable;
02 import javax.faces.bean.ManagedBean;
03 import javax.faces.bean.SessionScoped;
04
05 @ManagedBean
06 @SessionScoped
07 public class HelloBean implements Serializable{
08
09     private static final long serialVersionUID = 1L;
10
11     private String name;
12
13     public String getName()
14     {
15         return name;
16     }
17
18     public void setName(String name)
19     {
20         this.name = name;
21     }
22
23     public String getSayWelcome()
24     {
25         if("".equals(name) || name == null)
26         {
27             return "";
28         }
29         return "Ajax message : Welcome " + name ;
30     }
31 }

```

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3. Demo

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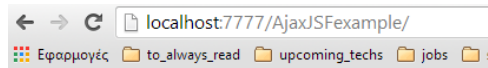
You can test you application by simply hitting **Run** in your IDE, or by accessing the following

URL

:

`http://localhost:8080/AjaxJSFexample/`

:



JSF 2.2 Hello Ajax Example

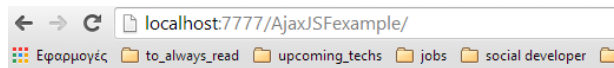
Thodoris Welcome Me



What are we waiting for, after the button is clicked? The server's response, which is implemented from the

`getSayWelcome()`

method, without having the whole page refreshed:



JSF 2.2 Hello Ajax Example

Thodoris Welcome Me

Ajax message : Welcome Thodoris



This was an example of integrating Ajax together with JSF. You can also download the source code: [AjaxJSFexample](#)

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