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Ajax: A Brief Introduction

- AJAX stands for Asynchronous JavaScript And Xml.
- Ajax is a technique to use HTTPXMLObject of JavaScript to send data to server and receive data from server asynchronously.
- So using Ajax technique, javascript code exchanges data with server, updates parts of web page without reloading the whole page.

JSF provides execellent support for making ajax call. It provides f:ajax tag to handle ajax calls.

JSF Tag

<f:ajax execute="input-component-name" render="output-component-name" />

Tag Attributes

S.N. Attribute & Description

1 disabled

If true, the Ajax behavior will be applied to any parent or child components. If false, the Ajax behavior will be disabled.

2 event

The event that will invoke Ajax requests, for example "click", "change", "blur", "keypress", etc.

3 execute

A space-separated List of IDs for components that should be included in the Ajax request.

4 immediate

If "true" behavior events generated from this behavior are broadcast during Apply Request Values phase. Otherwise, the events will be broadcast during Invoke Applications phase

5 listener

An EL expression for a method in a backing bean to be called during the Ajax request.

6 onerror

The name of a JavaScript callback function that will be invoked if there is an error during the Ajax request

7 onevent

The name of a JavaScript callback function that will be invoked to handle UI events.

8 render

A space-separated list of IDs for components that will be updated after an Ajax request.

Example Application

Let us create a test JSF application to test the custom component in JSF.

Step Description

- 1 Create a project with a name *helloworld* under a package *com.tutorialspoint.test* as explained in the *JSF First Application* chapter.
- 2 Modify *UserData.java* file as explained below.
- 3 Modify home.xhtml as explained below. Keep rest of the files unchanged.
- 4 Compile and run the application to make sure business logic is working as per the requirements.
- Finally, build the application in the form of war file and deploy it in Apache Tomcat Webserver.
- 6 Launch your web application using appropriate URL as explained below in the last step.

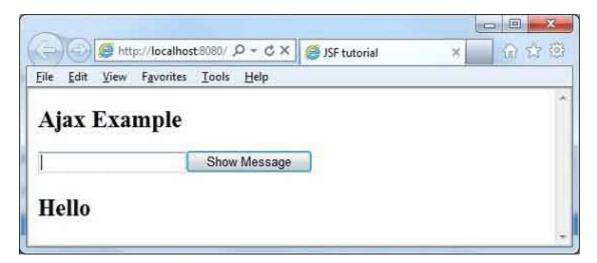
UserData.java

```
package com.tutorialspoint.test;
import java.io.Serializable;
import javax.faces.bean.ManagedBean;
import javax.faces.bean.SessionScoped;
@ManagedBean(name = "userData", eager = true)
@SessionScoped
public class UserData implements Serializable {
   private static final long serialVersionUID = 1L;
   private String name;
   public String getName() {
      return name;
   public void setName(String name) {
      this.name = name;
   public String getWelcomeMessage(){
      return "Hello " + name;
}
```

home.xhtml

```
<?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"
    xmlns:tp="http://java.sun.com/jsf/composite/tutorialspoint">
    <h:head>
        <title>JSF tutorial</title>
```

Once you are ready with all the changes done, let us compile and run the application as we did in JSF - First Application chapter. If everything is fine with your application, this will produce following result:



Enter name and press *Show Message* button. You will see the following result without page refresh/form submit.

