

JAVASERVER FACES

HANDLING EVENTS IN JSF



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Hola, te saluda nuevamente Ubaldo Acosta. Espero que estés listo para comenzar con esta lección.

Vamos a estudiar el concepto de Manejo de Eventos en JSF.

¿Estás listo? ¡Vamos!

VALUE CHANGE LISTENERS IN JSF

JSF provides two ways to detect changes (value change) in the components, either by adding a `valueChangeListener` attribute to the component or as an internal element. For example:

```
<h:inputText id="zipCode" onchange="this.form.submit()" value="#{person.zipCode}"  
valueChangeListener="#{personForm.zipCodeListener}" />
```

Once the attribute or internal element has been defined, the action method must be added in the Managed Bean that listens for the change in the View.

```
public void zipCodeListener(ValueChangeEvent valueChangeEvent) { ... }
```

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The listeners in JSF allow us to respond to events that happen in the View, to link the event to the Controller and process the change in the component. These components must implement the `EditableValueHolder` interface.

View Code: Configuration of the component to send a request to the listener method when a change occurs (`onchange` method).

```
<h:inputText id="zipCode" onchange="this.form.submit()" required="true"  
value="#{person.zipCode}"  
valueChangeListener="#{personForm.zipCodeListener}" />
```

Code of the Controller: Method that processes the change in the component, in this way we can recover the new value.

```
public void zipCodeListener(ValueChangeEvent valueEvent) {  
    String newZipCode = (String) valueEvent.getNewValue();  
}
```

In this type of components it is common to use the `immediate = "true"` attribute, since the idea is to avoid the validations of the other components and process only the one that made the content change.

ACTION LISTENERS IN JSF

JSF provides two ways to configure event detection when a user executes a submit action, either by adding the `actionListener` attribute to the JSF component or as an internal element in the component.

Some components of this type are `h:commandButton` and `h:commandLink`

```
<h:commandLink actionListener="#{personForm.send}"/>
```

Once the attribute or internal element is defined, the action method must be added in the Managed Bean that processes the request of the View

```
public void send(ActionEvent actionEvent) { ... }
```

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JSF provides two ways to detect actions when a user executes a submit action, either by adding the `actionListener` attribute to the component or as an internal element. These components must implement the `UICommand` interface.

View Code: Execute the submit type event in the view

```
<h:commandLink actionListener="#{personForm.send}"/>
```

Controller Code: Process the action executed from the view.

```
public void send(ActionEvent actionEvent) { ... }
```


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