

JAVASERVER FACES COURSE

VALIDATORS IN JSF



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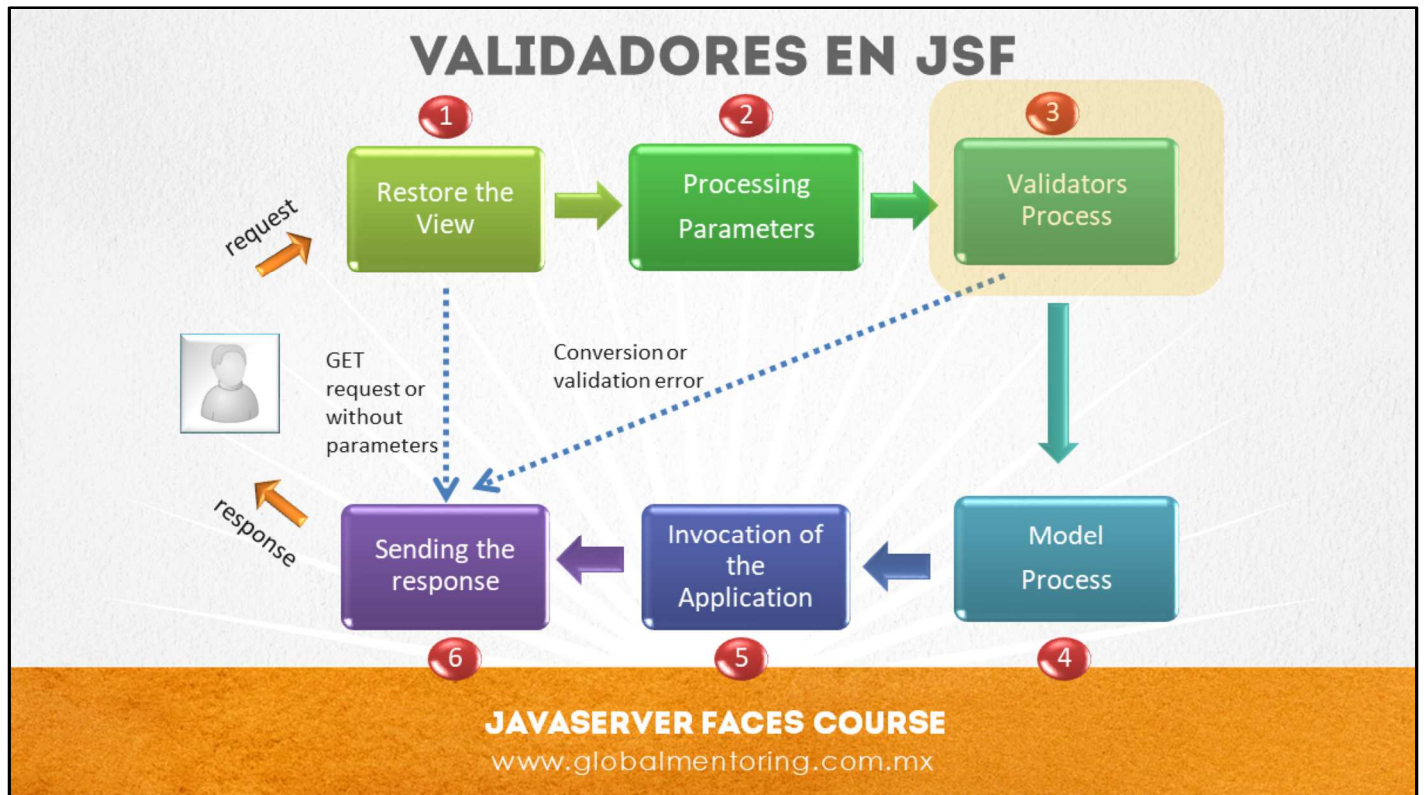
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Hello, Ubaldo Acosta greets you. Welcome or welcome again. I hope you're ready to start with this lesson.

We are going to study the topic of Validators in JSF.

Are you ready? OK let's go!



Validations in JSF ensure that the data of our application is consistent according to the values entered by the user. Some questions that we can validate are: ranges of numbers or limits, chain length, date formats among others.

JSF provides different types of validations:

- Standard validations
- Validations in the methods of the managed beans
- Custom validations

As we can see in the figure, the validation occurs in phase 3 of the JSF life cycle process. This process makes it possible to ensure that before updating the information of the model (properties of the model managed beans) we are certain that the information is in the format and type of data desired.

VALIDATIONS IN JSF

We will see two ways to execute the validation in our components :

- Individual validation by field
- Validation by interdependent fields

We can achieve Individual Validation in several ways, for example :

- Adding a required attribute to the JSF tag
- Adding a validator attribute to the JSF tag
- Adding a validator as an internal tag
- The h: message tag is used to show errors of a component

Interdependent Validation runs within the actions methods:

- The h: messages tag is used to show several errors at the same time

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Individual validation by field:

- Adding a required attribute to the JSF tag
- Adding a validator attribute to the JSF tag
- Adding a validator as an internal tag

Validation by interdependent fields

- Validation is executed within the action method of the managed bean.

When using the validations, we are responsible for displaying the error messages, in case any validation fails. For this, the tags of h: message and h: messages are used

EXAMPLE OF USE OF VALIDATORS

Example of a standard validator :

```
<h:inputText id="age" required="true" value="#{person.age}">  
    <f:validateLongRange minimum="18" maximum="50"/>  
</h:inputText>
```

Example of custom validator :

```
<h:inputText id="email" required="true" value="#{person.email}">  
    <f:validator validatorId="emailValidator"/>  
</h:inputText>
```

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Some examples of the use of validators in JSF are:

Example of a standard validator:

```
<h:inputText id="age" required="true" value="#{person.age}">  
    <f:validateLongRange minimum="18" maximum="50"/>  
</h:inputText>
```

JSF also allows to create validators in case the existing ones do not cover our needs implemented the Validator interface. We must also use the @FacesValidator annotation and implement the validate (...) method in the validator bean.

Example of custom validator:

```
<h:inputText id="email" required="true" value="#{person.email}">  
    <f:validator validatorId="emailValidator"/>  
</h:inputText>
```

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