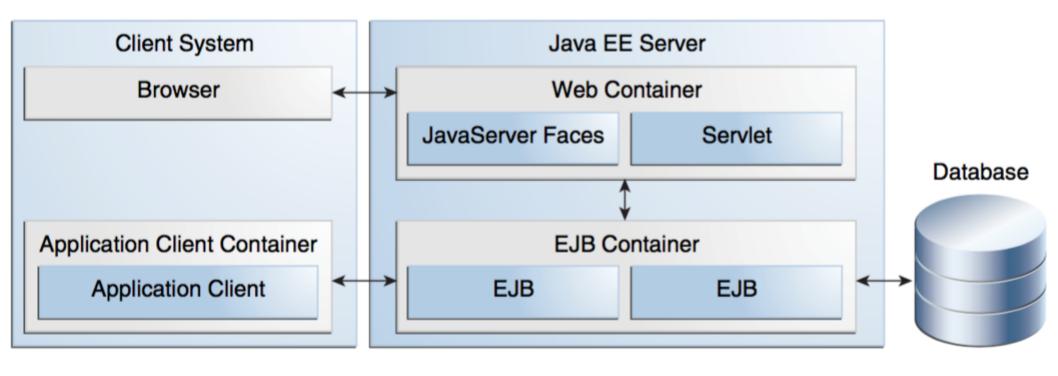


Curso Desenvolvedor Java



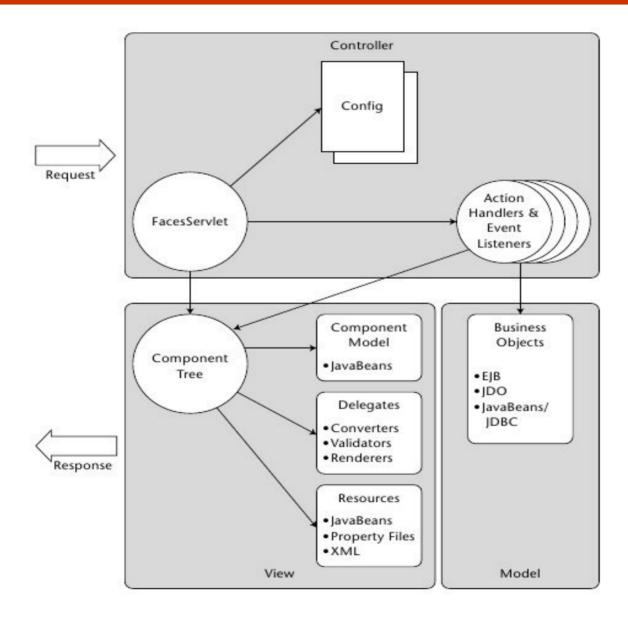


O JFS no Container Web





JSF Model-View-Controler





Configurando

Para que seja possível a utilização de JSF em uma aplicação WEB é necessário que o Faces Servlet seja configurado no arquivo de configuração da aplicação, o web.xml.

Nesta configuração também é informado qual o padrão de URL para que o Faces Servlet identifique as páginas que ele irá processar.



JSF Components Tags

Tag	Functions	Rendered As	Appearance
h:column	Represents a column of data in a data component	A column of data in an HTML table	A column in a table
h:commandButton	Submits a form to the application	An HTML <input type="value"/> element for which the type value can be "submit", "reset", or "image"	A button
h:commandLink	Links to another page or location on a page	An HTML element	A link
h:dataTable	Represents a data wrapper	An HTML element	A table that can be updated dynamically
h:form	Represents an input form (inner tags of the form receive the data that will be submitted with the form)	An HTML <form> element</form>	No appearance
h:graphicImage	Displays an image	An HTML element	An image
h:inputSecret	Allows a user to input a string without the actual string appearing in the field	An HTML <input type="password"/> element	A field that displays a row of characters instead of the actual string entered
h:inputText	Allows a user to input a string	An HTML <input type="text"/> element	A field
h:inputTextarea	Allows a user to enter a multiline string	An HTML <textarea> element</td><td>A multirow field</td></tr><tr><td>h:message</td><td>Displays a localized message</td><td>An HTML tag if styles are used</td><td>A text string</td></tr></tbody></table></textarea>	



JSF Components Tags

Tag	Functions	Rendered As	Appearance
h:messages	Displays localized messages	A set of HTML tags if styles are used	A text string
h:outputFormat	Displays a formatted message	Plain text	Plain text
h:outputLabel	Displays a nested component as a label for a specified input field	An HTML < label > element	Plain text
h:outputLink	Links to another page or location on a page without generating an action event	An HTML <a> element	A link
h:outputText	Displays a line of text	Plain text	Plain text
h:panelGrid	Displays a table	An HTML element with and elements	A table
h:panelGroup	Groups a set of components under one parent	A HTML <div> or element</div>	A row in a table
h:selectBooleanCheckbox	Allows a user to change the value of a Boolean choice	An HTML <input type="checkbox"/> element	A check box
h:selectManyListbox	Allows a user to select multiple items from a set of items all displayed at once	An HTML <select> element</select>	A box
h:selectOneMenu	Allows a user to select one item from a set of items	An HTML <select> element</select>	A menu
h:selectOneRadio	Allows a user to select one item from a set of items	An HTML <input type="radio"> element</input 	A group of options



Pass-Throught HTML5 Elements

HTML5 Element Name	Identifying Attribute	Facelets Tag	
a	jsf:action	h:commandLink	
a	jsf:value	h:outputLink	
body		h:body	
button		h:commandButton	
form		h:form	
head		h:head	
img		h:graphicImage	
input	type="button"	h:commandButton	
input	type="checkbox"	h:selectBooleanCheckbox	
input	type="color"	h:inputText	
input	type="date"	h:inputText	
input	type="email"	h:inputText	
input	type="number"	h:inputText	
input	type="password"	h:inputSecret	
input	type="submit"	h:commandButton	
label		h:outputLabel	
link		h:outputStylesheet	
script		h:outputScript	
select		h:selectOneListbox	
textarea		h:inputTextArea	



Facelets para Templates

Tag	Function	
ui:component	Defines a component that is created and added to the component tree.	
ui:composition	Defines a page composition that optionally uses a template. Content outside of this tag is ignored.	
ui:debug	Defines a debug component that is created and added to the component tree.	
ui:decorate	Similar to the composition tag but does not disregard content outside this tag.	
ui:define	Defines content that is inserted into a page by a template.	
ui:fragment	Similar to the component tag but does not disregard content outside this tag.	
ui:include	Encapsulates and reuses content for multiple pages.	
ui:insert	Inserts content into a template.	
ui:param	Used to pass parameters to an included file.	
ui:repeat	Used as an alternative for loop tags, such as c:forEach or h:dataTable.	
ui:remove	Removes content from a page.	



TagLibs Suportadas

Tag Library	URI	Prefix	Example	Contents
JavaServer Faces Facelets Tag Library	http://xmlns.jcp.org/jsf/facelets	ui:	ui:component ui:insert	Tags for templating
JavaServer Faces HTML Tag Library	http://xmlns.jcp.org/jsf/html	h:	h:head h:body h:outputText h:inputText	JavaServer Faces component tags for all UIComponent objects
JavaServer Faces Core Tag Library	http://xmlns.jcp.org/jsf/core	f:	f:actionListener f:attribute	Tags for JavaServer Faces custom actions that are independent of any particular render kit
Pass-through Elements Tag Library	http://xmlns.jcp.org/jsf	jsf:	jsf:id	Tags to support HTML5- friendly markup
Pass-through Attributes Tag Library	http://xmlns.jcp.org/jsf/passthrough	p:	p:type	Tags to support HTML5- friendly markup
Composite Component Tag Library	http://xmlns.jcp.org/jsf/composite	cc:	cc:interface	Tags to support composite components
JSTL Core Tag Library	http://xmlns.jcp.org/jsp/jstl/core	c:	c:forEach c:catch	JSTL 1.2 Core Tags
JSTL Functions Tag Library	http://xmlns.jcp.org/jsp/jstl/functions	fn:	<pre>fn:toUpperCase fn:toLowerCase</pre>	JSTL 1.2 Functions Tags



Os prefixos do JSF

O JSF utiliza páginas XHTML e para configurarmos os prefixos utilizados pelo JSF necessitamos registra-los no elemento HTML.

```
<html lang="pt-br"
xmlns="http://www.w3.org/1999/xhtml"
xmlns:h="http://xmlns.jcp.org/jsf/html"
xmlns:f="http://xmlns.jcp.org/jsf/core"
xmlns:jsf="http://xmlns.jcp.org/jsf">
```



O Managed Bean e o JSF

```
<h:head>
@ManagedBean(name="cadaluno")
                                          <meta charset="UTF-8" />
public class CadAluno {
                                                                                   Os métodos get e set do
  @E.1B
                                          <title>Cadastro Aluno</title>
                                                                                   ManagedBean são
  private AlunoDao dao;
                                          </h:head>
                                                                                   utilizados pela página JSF.
                                          <h:body>
  private String nome:
                                             <f:view>
  private String matricula;
                                                 <h:messages />
  public String getNome() {
                                                 <h:form>
      return nome;
                                                      <h3>Cadastro de Alunos</h3><hr />
                                                      <h:outputLabel value="Nome: " />
  public void setNome(String nome) {
                                                      <h:inputText value="#{cadaluno.nome}" size="20" />
      this.nome = nome;
                                                      <h:outputLabel value="Matricula: "/>
  public String getMatricula() {
                                                      <h:inputText size="8" value="#{cadaluno.matricula}" />
      return matricula;
                                                      <h:commandButton value="Enviar" action="#{cadaluno.salvar}" />
  public void setMatricula(String matricula) {
                                                      <h:commandButton value="Voltar" action="menu.xhtml" />
      this.matricula = matricula:
                                                 </h:form>
  7
                                             </f:view>
                                          </h:body>
  public String salvar() {
                                          </h:html>
}
```



SelectOneMenu

Um <h:selectOneMenu/> é implementado segundo o exemplo ao lado.

```
<h:selectOneMenu value="#{cadaluno.curso}">
    <f:selectItems value="#{cadaluno.cursos}" var="item"
        itemLabel="#{item.nome}" itemValue="#{item.id}" />
    </h:selectOneMenu>
```

Dos objetos retornados pelo método getCursos() são selecionados o label e o valor com os atributos itemLabel e itemValue respectivamente.

No atributo value em selectOneMenu é informado que receberá o valor do objeto selecionado.

```
private Integer curso;

public Integer getCurso() {
    return curso;
}

public void setCurso(Integer curso) {
    this.curso = curso;
}

public List<Curso> getCursos() {
    return dao.getCursos();
}
```



DataTable

Um <h:dataTable/> é implementado de forma similar ao for do JSP, porém cada coluna deve ser definida utilizando o elemento <h:column/>.

Uma coleção do tipo ListDataModel deve ser utilizada para conter os objetos de um <h:dataTable/>.

É através do método getWrappedData que obtemos os dados retornados pela página JSF para efetuar ações.