Aula 15

Configure o arquivo faces-config.xml:

```xml
<?xml version="1.0" encoding="UTF-8"?>

<faces-config
    xmlns="http://java.sun.com/xml/ns/javaee"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-facesconfig_1_2.xsd"
    version="1.2">
    <managed-bean>
        <managed-bean-name>
        exemploConversor</managed-bean-name>
        <managed-bean-class>
        aulajsf.ExemploConversor</managed-bean-class>
        <managed-bean-scope>
        session</managed-bean-scope>
    </managed-bean>
    <managed-bean>
        <managed-bean-name>
        exemploValidador</managed-bean-name>
        <managed-bean-class>
        aulajsf.ExemploValidador</managed-bean-class>
        <managed-bean-scope>
        session</managed-bean-scope>
    </managed-bean>

</faces-config>
```

Configure o arquivo web.xml para :

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns="http://java.sun.com/xml/ns/javaee"
    xmlns:web="http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
    xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/
xml/ns/javaee/web-app_2_5.xsd"
    id="WebApp_ID" version="2.5">
    <display-name>aulajsf</display-name>

    <context-param>

        <param-name>org.richfaces.SKIN</param-name>

        <param-value>blueSky</param-value>

    </context-param>

    <filter>

        <display-name>RichFaces Filter</display-name>

        <filter-name>richfaces</filter-name>
```

```xml
            <filter-class>org.ajax4jsf.Filter</filter-class>

    </filter>

    <filter-mapping>

            <filter-name>richfaces</filter-name>

            <servlet-name>Faces Servlet</servlet-name>

            <dispatcher>REQUEST</dispatcher>

            <dispatcher>FORWARD</dispatcher>

            <dispatcher>INCLUDE</dispatcher>

    </filter-mapping>


    <welcome-file-list>
            <welcome-file>index.html</welcome-file>
            <welcome-file>index.htm</welcome-file>
            <welcome-file>index.jsp</welcome-file>
            <welcome-file>default.html</welcome-file>
            <welcome-file>default.htm</welcome-file>
            <welcome-file>default.jsp</welcome-file>
    </welcome-file-list>
    <servlet>
            <servlet-name>Faces Servlet</servlet-name>
            <servlet-class>javax.faces.webapp.FacesServlet</servlet-class>
            <load-on-startup>1</load-on-startup>
    </servlet>
    <servlet-mapping>
            <servlet-name>Faces Servlet</servlet-name>
            <url-pattern>*.faces</url-pattern>
    </servlet-mapping>
</web-app>
```

Código 01:

Crie o ExemploValidador.java:

```java
package aulajsf;

import javax.faces.event.ActionEvent;

public class ExemploValidador {

    private double salario;
    private double porcentagem;
    private double aumento;

    public void calcularAumento(ActionEvent evento){
        aumento = salario * porcentagem;
    }

    public void zerarCampos(ActionEvent evento){
        salario = 0;
```

```java
            porcentagem = 0;
            aumento = 0;
    }

    public double getSalario() {
            return salario;
    }

    public void setSalario(double salario) {
            this.salario = salario;
    }

    public double getPorcentagem() {
            return porcentagem;
    }

    public void setPorcentagem(double porcentagem) {
            this.porcentagem = porcentagem;
    }

    public double getAumento() {
            return aumento;
    }

    public void setAumento(double aumento) {
            this.aumento = aumento;
    }

}
```

Crie o ExemploValidador.jsp:

```jsp
<%@taglib uri="http://java.sun.com/jsf/html" prefix="h" %>
<%@taglib uri="http://java.sun.com/jsf/core" prefix="f" %>
<html>
<body>
<f:view>
    <h:form>
        <h:panelGrid columns="3">
            <h:outputText value="Salário:"/>
            <h:inputText id="salario" value="#{exemploValidador.salario}"
required="true" validatorMessage="O salário deve ser maior que 1,00">
                <f:validateDoubleRange minimum="1"/>
                <f:convertNumber pattern="###,##0.00"/>
            </h:inputText>
            <h:message for="salario" />

            <h:outputText value="Porcentagem aumento:"/>
            <h:inputText id="aumento"
value="#{exemploValidador.porcentagem}" required="true" validatorMessage="A
porcentagem deve estar entre 0 e 1">
                <f:validateDoubleRange minimum="0" maximum="1"/>
                <f:convertNumber pattern="0.00"/>
            </h:inputText>
            <h:message for="aumento" />

            <h:commandButton
actionListener="#{exemploValidador.calcularAumento}" value="calcular"/>
            <h:commandButton
actionListener="#{exemploValidador.zerarCampos}" value="zerar" immediate="true"/
>
```

```
                <h:outputText/>

                <h:outputText value="Aumento:"/>
                <h:outputText value="#{exemploValidador.aumento}"/>
            </h:panelGrid>
        </h:form>
    </f:view>
</body>
</html>
```

Codigo 2

Crie o ExemploConversor.java:

```java
package aulajsf;

import java.util.Date;

import javax.faces.event.ActionEvent;


public class ExemploConversor {

    private Date data1;
    private Date data2;

    private long diferenca;


    public void calcularDiferenca(ActionEvent evento){
        long d = data2.getTime() - data1.getTime();
        diferenca = d / (1000*60*60*24);
    }


    public Date getData1() {
        return data1;
    }


    public void setData1(Date data1) {
        this.data1 = data1;
    }


    public Date getData2() {
        return data2;
    }


    public void setData2(Date data2) {
        this.data2 = data2;
    }


    public long getDiferenca() {
        return diferenca;
    }

}
```

Crie o ExemploConversor.jsp:

```jsp
<%@taglib uri="http://java.sun.com/jsf/html" prefix="h" %>
<%@taglib uri="http://java.sun.com/jsf/core" prefix="f" %>
<f:view>
     <h:form>
          <h:panelGrid columns="2">
               <h:outputText value="Data inicial:"/>
               <h:inputText value="#{exemploConversor.data1}">
                    <f:convertDateTime pattern="dd/MM/yyyy"/>
               </h:inputText>
               <h:outputText value="Data Final:"/>
               <h:inputText value="#{exemploConversor.data2}">
                    <f:convertDateTime pattern="dd/MM/yyyy"/>
               </h:inputText>
               <h:commandButton
actionListener="#{exemploConversor.calcularDiferenca}" value="calcular"/>
               <h:outputText value="Diferença:
#{exemploConversor.diferenca}"/>
          </h:panelGrid>
     </h:form>
</f:view>
```

Código 3

Exemplo de Componentes.

Crie o componentesRichFaces.jsp:

```jsp
<%@ taglib uri="http://richfaces.org/a4j" prefix="a4j"%>
<%@ taglib uri="http://richfaces.org/rich" prefix="rich"%>
<%@taglib uri="http://java.sun.com/jsf/html" prefix="h" %>
<%@taglib uri="http://java.sun.com/jsf/core" prefix="f" %>

<html>
<body>
<f:view>
     <h:form>
          <rich:calendar ></rich:calendar>


          <rich:toolBar>
            <rich:dropDownMenu>
                <f:facet name="label">
                    <h:outputText value="Arquivo"/>
                </f:facet>
                <rich:menuItem value="Novo"/>
                <rich:menuItem value="Salvar..."/>
                <rich:menuItem value="Fechar"/>
             </rich:dropDownMenu>

            <rich:dropDownMenu>
                <f:facet name="label">
                    <h:outputText value="Relatorio"/>
                </f:facet>
                <rich:menuItem value="Clientes"/>
                <rich:menuItem value="Fornecedores"/>
                <rich:menuItem value="Lançamentos"/>
            </rich:dropDownMenu>
```

```
            </rich:toolBar>

        <rich:tabPanel>
            <rich:tab label="Aba 1">
                <h:outputText value="Aba 1"/>
            </rich:tab>
            <rich:tab label="Aba 2">
                <h:outputText value="Aba 2"/>
            </rich:tab>
            <rich:tab label="Aba 3">
                <h:outputText value="Aba 3"/>
            </rich:tab>
            <rich:tab label="Aba 4">
                <h:outputText value="Aba 4"/>
            </rich:tab>
        </rich:tabPanel>

    </h:form>
</f:view>
</body>
</html>
```