FACELETS

Create a new dynamic web project faceletDemo

Configure xml and add new libraries

Copy and paste the xhtml file given by trainer under web-content folder

<?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"* xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_3\_0.xsd"* id=*"WebApp\_ID"* version=*"3.0"*>

<display-name>FaceletDemo</display-name>

<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>\*.xhtml</url-pattern>

</servlet-mapping>

</web-app>

<?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:ui=*"http://java.sun.com/jsf/facelets"*>

<f:view>

<head>

<title>Tax Calculation</title>

<style>

**table**{

margin: *0 auto*;

border-collapse: *collapse*;

}

*.css1*{

background-color: *orange*;

}

*.css3*{

color:*red*;

}

**tfoot,thead**{

background-color: *red*;

text-align:*center*;

color:*white*;

}

</style>

</head>

<body>

<h1 align=*"center"*>Tax Calulation</h1>

<h5 align=*"center"*> <a href=*"Main.jsf"*>Home</a></h5>

<hr size=*"2"*/>

<h:form id=*"tfrm"*>

<h:panelGrid id=*"pg1"* columns=*"3"* columnClasses=*"css1,,css3"* cellpadding=*"10"* bgcolor=*"wheat"*>

<f:facet name=*"header"* >

<h:outputText value=*"Tax Form"*/>

</f:facet>

<h:outputText value=*"Employee Name"*/>

<h:inputText id=*"name"* value=*"#{tbean.ename}"* required=*"true"*

requiredMessage=*"name is manadatory"*

validatorMessage=*"only alphabets allowed and it must have 3-10 chars"*>

<f:validateLength minimum=*"3"* maximum=*"10"*/>

<f:validateRegex pattern=*"[a-zA-Z]+"*/>

</h:inputText>

<h:message for=*"name"*></h:message>

<h:outputText value=*"Annual income"*/>

<h:inputText id=*"aincome"* value=*"#{tbean.income}"* required=*"true"*

requiredMessage=*"income is manadatory"*

converterMessage=*"must be a number"*/>

<h:message for=*"aincome"*></h:message>

<f:facet name=*"footer"* >

<h:commandButton value=*"calcTax"* action=*"#{tbean.calcTax}"*/>

</f:facet>

</h:panelGrid>

</h:form>

</body>

</f:view>

</html>

<?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:ui=*"http://java.sun.com/jsf/facelets"*>

<f:view>

<head>

<title>Tax Calculation</title>

<style>

**table**{

margin: *0 auto*;

border-collapse: *collapse*;

}

*.css1*{

background-color: *orange*;

}

**tfoot,thead**{

background-color: *red*;

text-align:*center*;

color:*white*;

}

</style>

</head>

<body>

<h1 align=*"center"*>Tax Result</h1>

<h5 align=*"center"*> <a href=*"Main.jsf"*>Home</a></h5>

<hr size=*"3"*/>

<h:panelGrid id=*"pg"* columns=*"2"* columnClasses=*"css1"*

bgcolor=*"wheat"* cellpadding=*"10"*>

<f:facet name=*"header"*>

<h:outputText value=*"TaxResult"*/>

</f:facet>

<h:outputText value=*"Employee Name"*/>

<h:outputText value=*"#{tbean.ename}"*/>

<h:outputText value=*"Annual Income"*/>

<h:outputText value=*"#{tbean.income}"*/>

<h:outputText value=*"Tax to be paid"*/>

<h:outputText value=*"#{tbean.tax}"*>

<f:convertNumber maxFractionDigits=*"2"* minFractionDigits=*"2"* />

</h:outputText>

</h:panelGrid>

</body>

</f:view>

</html>

package com.hexa.bean;

import javax.faces.bean.ManagedBean;

import javax.faces.bean.RequestScoped;

@ManagedBean(name="tbean")

@RequestScoped

public class TaxBean {

private String ename;

private double income;

private double tax;

public TaxBean() {

System.out.println("Tax Bean constructor is invoked");

}

public String getEname() {

System.out.println("Ename getter");

return ename;

}

public void setEname(String ename) {

System.out.println("Ename setter");

this.ename = ename;

}

public double getIncome() {

System.out.println("Income getter");

return income;

}

public void setIncome(double income) {

System.out.println("Income Setter");

this.income = income;

}

public double getTax() {

System.out.println("Tax getter");

return tax;

}

public void setTax(double tax) {

System.out.println("Tax Setter");

this.tax = tax;

}

// Action Method which ll return String

public String calcTax() {

System.out.println("Inside CalcTax Method");

if (income > 1000000) {

this.tax = 750000 \* 0.1 + (income - 1000000) \* 0.15;

} else if (income > 250000) {

this.tax = (income - 250000) \* 0.1;

}

return "TaxSubmit";

}

}

Creating xhtml under webcontent with extension .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:ui=*"http://java.sun.com/jsf/facelets"*>

<f:view>

<head>

<style type=*"text/css"*>

**table** {

margin: *0 auto*;

border-collapse: *collapse*;

}

*.css1* {

background-color: *orange*;

}

*.css3* {

color: *red*;

}

**tfoot,** **thead** {

background-color: *red*;

}

</style>

<title>Interest Calculation</title>

</head>

<body>

<h1 align=*"center"*>Interest Calculation</h1>

<a href=*"Main.xhtml"*>Home</a>

<hr size=*"2"* />

<h:form id=*"tfrm"*>

<h:panelGrid id=*"pg1"* columns=*"3"* columnClasses=*"css1"*

cellpadding=*"10"* bgcolor=*"wheat"*>

<f:facet name=*"header"*>

<h:outputText value=*"Calculate Interest"*></h:outputText>

</f:facet>

<h:outputText value=*"Amount"*></h:outputText>

<h:inputText id=*"amount"* value=*"#{ibean.amount}"* required=*"true"*

requiredMessage=*"Amount is Mandatory"*

converterMessage=*"Must be a number"*

validatorMessage=*"Amount must be minimum 5000"*>

<f:validateDoubleRange minimum=*"5000"*></f:validateDoubleRange>

</h:inputText>

<h:message for=*"amount"*></h:message>

<h:outputText value=*"Years"*></h:outputText>

<h:inputText id=*"years"* value=*"#{ibean.years}"* required=*"true"*

requiredMessage=*"Years is Mandatory"*

validatorMessage=*"Years must be 1 to 30"*

converterMessage=*"Must be a number"*>

<f:validateDoubleRange minimum=*"1"* maximum=*"30"*></f:validateDoubleRange>

</h:inputText>

<h:message for=*"years"*></h:message>

<h:outputText value=*"Rate Of Interest"*></h:outputText>

<h:inputText id=*"rate"* value=*"#{ibean.rate}"* required=*"true"*

requiredMessage=*"Rate Of interest is Mandatory"*

validatorMessage=*"Rate must be 1 to 30"*

converterMessage=*"Must be a number"*>

<f:validateDoubleRange minimum=*"1"* maximum=*"30"*></f:validateDoubleRange>

</h:inputText>

<h:message for=*"rate"*></h:message>

<f:facet name=*"footer"*>

<h:panelGroup>

<h:commandButton value=*"Simple Interest"*

action=*"#{ibean.calcSimpleInterest}"*></h:commandButton>

&nbsp; &nbsp;

<h:commandButton value=*"Compound Interest"*

action=*"#{ibean.calcCompInterest}"*></h:commandButton>

</h:panelGroup>

</f:facet>

</h:panelGrid>

</h:form>

</body>

</f:view>

</html>

<?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:ui=*"http://java.sun.com/jsf/facelets"*>

<f:view>

<head>

<style type=*"text/css"*>

**table** {

margin: *0 auto*;

border-collapse: *collapse*;

}

*.css1* {

background-color: *orange*;

}

**tfoot,** **thead** {

background-color: *red*;

text-align: *center*;

}

</style>

<title>Tax Calculation</title>

</head>

<body>

<h1 align=*"center"*>Interest Calculation</h1>

<a href=*"Main.xhtml"*>Home</a>

<hr size=*"2"* />

<h:panelGrid id=*"pg"* columns=*"2"* columnClasses=*"css1"* cellpadding=*"10"*

bgcolor=*"wheat"*>

<f:facet name=*"header"*>

<h:outputText value=*"Interest Result"*></h:outputText>

</f:facet>

<h:outputText value=*"Amount"*></h:outputText>

<h:outputText value=*"#{ibean.amount}"*></h:outputText>

<h:outputText value=*"Years"*></h:outputText>

<h:outputText value=*"#{ibean.years}"*></h:outputText>

<h:outputText value=*"Rate Of Interest"*></h:outputText>

<h:outputText value=*"#{ibean.rate}"*></h:outputText>

<h:outputText value=*"#{ibean.resCaption}"*></h:outputText>

<h:outputText value=*"#{ibean.result}"*>

<f:convertNumber minFractionDigits=*"2"* maxFractionDigits=*"2"* />

</h:outputText>

</h:panelGrid>

</body>

</f:view>

</html>

<?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"* xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_3\_0.xsd"* id=*"WebApp\_ID"* version=*"3.0"*>

<display-name>FaceletDemo</display-name>

<welcome-file-list>

<welcome-file>Main.xhtml</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>\*.xhtml</url-pattern>

</servlet-mapping>

</web-app>

**Primefaces**

* Create a dynamic web project and configure the web.xml and add the required library files

Web.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"* xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_3\_0.xsd"* id=*"WebApp\_ID"* version=*"3.0"*>

<display-name>PrimeFacesDemo</display-name>

<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>\*.xhtml</url-pattern>

</servlet-mapping>

<context-param>

<param-name>primefaces.skin</param-name>

<param-value>EggPlant</param-value>

</context-param>

</web-app>

* Under src folder create a package com.hexa.bean
* Create classes emp and empbean
* Create emptable.xhtml under webcontent folder

**package** com.hexa.bean;

**import** java.io.Serializable;

**public** **class** Emp **implements** Serializable{

**private** **int** empId;

**private** String empName;

**private** **double** empSal;

**private** **boolean** editable;

**public** Emp(**int** empId, String empName, **double** empSal) {

**super**();

**this**.empId = empId;

**this**.empName = empName;

**this**.empSal = empSal;

}

**public** **int** getEmpId() {

**return** empId;

}

**public** **void** setEmpId(**int** empId) {

**this**.empId = empId;

}

**public** String getEmpName() {

**return** empName;

}

**public** **void** setEmpName(String empName) {

**this**.empName = empName;

}

**public** **double** getEmpSal() {

**return** empSal;

}

**public** **void** setEmpSal(**double** empSal) {

**this**.empSal = empSal;

}

**public** **boolean** isEditable() {

**return** editable;

}

**public** **void** setEditable(**boolean** editable) {

**this**.editable = editable;

}

}

package com.hexa.bean;

import java.io.Serializable;

import java.util.ArrayList;

import java.util.List;

import javax.faces.bean.ManagedBean;

import javax.faces.bean.RequestScoped;

import javax.faces.bean.ViewScoped;

@ManagedBean(name = "ebean")

@ViewScoped

public class EmpBean implements Serializable {

private List<Emp> elist;

public List<Emp> getElist() {

if (elist == null) {

elist = new ArrayList<Emp>();

elist.add(new Emp(1001, "ram", 9000));

elist.add(new Emp(1003, "tom", 8000));

elist.add(new Emp(1005, "shyam", 15000));

elist.add(new Emp(1007, "ram", 9000));

elist.add(new Emp(1009, "ravi", 8000));

elist.add(new Emp(1011, "gokul", 15000));

elist.add(new Emp(1002, "john", 9000));

elist.add(new Emp(1004, "harsha", 8000));

elist.add(new Emp(1006, "giri", 15000));

elist.add(new Emp(1008, "asha", 9000));

elist.add(new Emp(10010, "peter", 8000));

elist.add(new Emp(10013, "banu", 15000));

}

return elist;

}

}

<?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:p=*"http://primefaces.org/ui"*>

<h:head>

</h:head>

<f:view>

<dic style=”width:50%; margin:0 auto”>

<h:form id=*"form"*>

<p:dataTable value=*"#{ebean.elist}"* var=*"e"*

id=*"tbl1"* paginator=*"true"* rows=*"3"*>

<p:column sortBy=*"#{e.empId}"*>

<f:facet name=*"header"*>

<h:outputText value=*"Emp Id"*/>

</f:facet>

<h:outputText value=*"#{e.empId}"*/>

</p:column>

<p:column sortBy=*"#{e.empName}"* filterBy=*"empName"*>

<f:facet name=*"header"*>

<h:outputText value=*"Emp Name"*/>

</f:facet>

<h:outputText value=*"#{e.empName}"* id=*"lnk"*/>

<p:tooltip for=*"lnk"* >

<h:panelGrid columns=*"2"*>

<h:outputText value=*"emp id"*/>

<h:outputText value=*"#{e.empId }"*/>

<h:outputText value=*"emp name"*/>

<h:outputText value=*"#{e.empName }"*/>

<h:outputText value=*"emp sal"*/>

<h:outputText value=*"#{e.empSal }"*/>

</h:panelGrid>

</p:tooltip>

</p:column>

<p:column sortBy=*"#{e.empSal}"*>

<f:facet name=*"header"*>

<h:outputText value=*"Emp Sal"*/>

</f:facet>

<h:outputText value=*"#{e.empSal}"*/>

</p:column>

</p:dataTable>

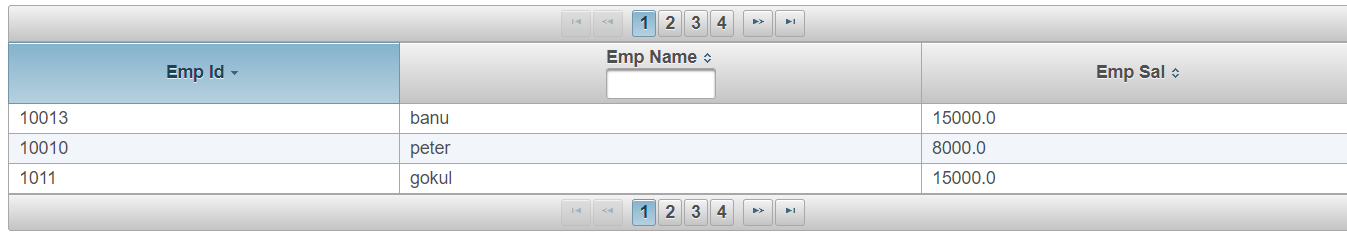
</h:form>

</div>

</f:view>

</html>

OutPut:



Copy and paste eggplant.jar and bluesky.jar

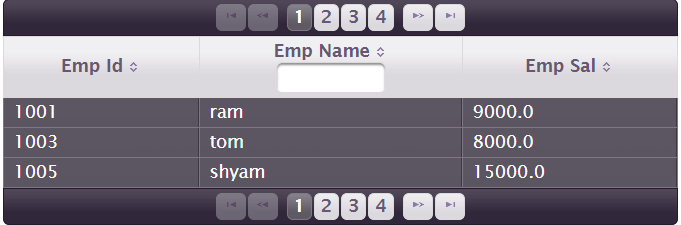
Change the web.xml as follows

<context-param>

<param-name>primefaces.THEME</param-name>

<param-value>eggplant</param-value>

</context-param>

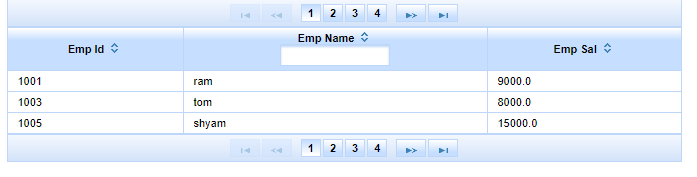


<context-param>

<param-name>primefaces.THEME</param-name>

<param-value>bluesky</param-value>

</context-param>



Setting a new Theme

* To download yur own theme go to
* <https://www.primefaces.org/showcase/ui/misc/themeSwitcher.xhtml>
* Click on the theme required and download the required jar
* Add it in lib folder
* Change the theme name in web.xml

Copy and paste the images and an .xhtml file to web content folder

<?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:p=*"http://primefaces.org/ui"*>

<h:head>

</h:head>

<f:view>

<h1 align=*"center"*>Accordion Demo</h1>

<hr size=*"2"*/>

<h:form id=*"form"*>

<div style="width:*50%*; margin: *0 auto*">

<p:accordionPanel multiple=*"true"*>

<p:tab title=*"Godfather Part I"*>

<h:panelGrid columns=*"2"* cellpadding=*"10"*>

<p:graphicImage value=*"/images/1.png"* />

<h:outputText

value=*"The story begins as Don Vito Corleone, the head of a New York Mafia family, oversees his daughter's wedding.*

*His beloved son Michael has just come home from the war, but does not intend to become part of his father's business. T*

*hrough Michael's life the nature of the family business becomes clear. The business of the family is just like the head of the family, kind and benevolent to those who give respect,*

*but given to ruthless violence whenever anything stands against the good of the family."* />

</h:panelGrid>

</p:tab>

<p:tab title=*"Godfather Part II"*>

<h:panelGrid columns=*"2"* cellpadding=*"10"*>

<p:graphicImage value=*"/images/2.png"* />

<h:outputText value=*"Francis Ford Coppola's legendary continuation and sequel to his landmark 1972 film, The\_Godfather, parallels the young Vito Corleone's rise with his son Michael's spiritual fall, deepening The\_Godfather's depiction of the dark side of the American dream.*

*In the early 1900s, the child Vito flees his Sicilian village for America after the local Mafia kills his family. Vito struggles to make a living, legally or illegally, for his wife and growing brood in Little Italy,*

*killing the local Black Hand Fanucci after he demands his customary cut of the tyro's business. With Fanucci gone, Vito's communal stature grows."* />

</h:panelGrid>

</p:tab>

<p:tab title=*"Godfather Part III"*>

<h:panelGrid columns=*"2"* cellpadding=*"10"*>

<p:graphicImage value=*"/images/3.png"* />

<h:outputText value=*"After a break of more than 15 years, director Francis Ford Coppola and writer Mario Puzo returned to the well for this third and final story of the fictional Corleone crime family.*

*Two decades have passed, and crime kingpin Michael Corleone, now divorced from his wife Kay has nearly succeeded in keeping his promise that his family would one day be completely legitimate."* />

</h:panelGrid>

</p:tab>

</p:accordionPanel>

</div>

</h:form>

</f:view>

</html>

