SRIV

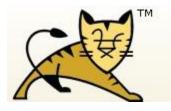
MASTER INFORMATIQUE - SEMESTRE 5

Cours: Développement Web

Séquence 4: JavaServer Faces

SRIV





Apache Tomcat 8

Version 8.5.24, Nov 27 2017





Partie 4:

Jeux de composants additionnels JSF









Contenu

- Architectures Multi-tiers (Rappel)
- La plate-forme Java EE (Rappel)
- JavaServer Faces
 - Environnement de développement
 - Une séparation de la couches présentation des autres couches
 - Un mapping entre l'HTML et L'objet
 - JSF et Bases de données
 - Un ensemble de composants riches et utilisables
 - Une liaison simple entre les actions côte Client et côte serveur
 - Composants additionnels JSF: Primefaces
 - Combinaison de plusieurs composants pour aboutir à un



Jeux de composants additionnels à JSF

- Il est possible d'utiliser des jeux de composants additionnels offrant de nouveaux composants plus riches. On peut citer par exemple:
 - Primefaces, un jeu de composants open-source supportant Ajax, Jsf 2, Push
 - ICEfaces, un jeu de composants open-source supportant Ajax.
 - <u>jBoss RichFaces</u> et Ajax4JSF, un jeu de composants open-source supportant Ajax
 - Apache *Tomahawk*, un jeu de composants très riche et open-source
 - RCFaces, un jeu de composants très riche AJAX et open-source

Les deux jeux de composants standards de JSF s'avèrent trop limités et insuffisants pour le développement d'applications d'entreprise

https://fr.wikipedia.org/wiki/JavaServer_Faces







Original author(s) PrimeTek

Stable release 5.2.1 [1] / April 17, 2015

Written in Java

Operating system Cross-platform

Type Java, JSF, Ajax,

Framework

License Apache License 2.0 [2]

http://www.primefaces.org/docs/guide/primefaces user guide 5 1.pdf





- Très Nombreux champs supplémentaires : ColorPicker, Calendar, TagCloud...
- Panneaux, graphiques, multimédia, gestion de fichiers...
- Gestion par JSF d'images dynamiques (en JSF pures, gérées par... une servlet).
- Extension de la spécification : langage plus riche pour désigner des éléments,

http://www.primefaces.org/docs/guide/primefaces user guide 5 1.pdf





- Les concurrents de PRIMEFACES :
 - RichFaces
 - ICEfaces
 - Tomahawk
 - RC Faces
 - Open Faces
 - •











Web Pages

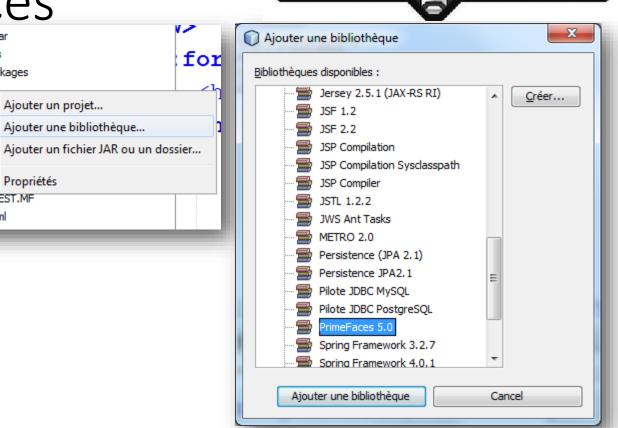
Source Packages

Ajouter un projet...

Propriétés

MANIFEST.MF

web.xml



• Prime Faces namespace est nécessaire pour ajouter les composants Prime Faces à votre page : xmlns:p="http://primefaces.org/ui



Quelques Composants et fonctions PrimeFaces.org/docs/vdl/3.5/alltags-noframe.html

primefaces-p:component() primefaces-p:ifAllGranted() primefaces-p:ifAnyGranted() primefaces-p:ifGranted() primefaces-p:ifNoneGranted() primefaces-p:remoteUser() primefaces-p:userPrincipal() primefaces-p:widgetVar() primefaces-p:accordionPanel primefaces-p:ajax primefaces-p:ajaxStatus primefaces-p:autoComplete primefaces-p:barChart primefaces-p:blockUI primefaces-p:breadCrumb primefaces-p:bubbleChart primefaces-p:button primefaces-p:calendar primefaces-p:captcha primefaces-p:carousel primefaces-p:cellEditor primefaces-p:clock primefaces-p:collector primefaces-p:colorPicker primefaces-p:column primefaces-p:columnGroup primefaces-p:columns

primefaces-p:columnGroup primefaces-p:columns primefaces-p:commandButton primefaces-p:commandLink primefaces-p:confirmDialog primefaces-p:contextMenu primefaces-p:dashboard primefaces-p:dataExporter primefaces-p:dataGrid primefaces-p:dataList primefaces-p:dataTable primefaces-p:defaultCommand primefaces-p:dialog primefaces-p:dock primefaces-p:donutChart primefaces-p:draggable primefaces-p:droppable primefaces-p:editor primefaces-p:effect primefaces-p:feedReader primefaces-p:fieldset primefaces-p:fileDownload primefaces-p:fileUpload primefaces-p:focus primefaces-p:galleria primefaces-p:gmap primefaces-p:gmapInfoWindow primefaces-p:graphicImage primefaces-p:growl primefaces-p:hotkey primefaces-p:idleMonitor

primefaces-p:imageCompare primefaces-p:imageCropper primefaces-p:imageSwitch primefaces-p:inplace primefaces-p:inputMask primefaces-p:inputText primefaces-p:inputTextarea primefaces-p:keyboard primefaces-p:layout primefaces-p:layoutUnit primefaces-p:lightBox primefaces-p:lineChart primefaces-p:log primefaces-p:media primefaces-p:megaMenu primefaces-p:menu primefaces-p:menubar primefaces-p:menuButton primefaces-p:menuitem primefaces-p:message primefaces-p:messages primefaces-p:meterGaugeCha primefaces-p:mindmap primefaces-p:notificationBar primefaces-p:ohlcChart primefaces-p:orderList primefaces-p:outputLabel primefaces-p:outputPanel primefaces-p:overlayPanel primefaces-p:panel primefaces-p:panelGrid primefaces-p:panelMenu primefaces-p:password primefaces-p:photoCam primefaces-p:pickList

primefaces-p:pieChart primefaces-p:poll primefaces-p:printer primefaces-p:progressBar primefaces-p:radioButton primefaces-p:rating primefaces-p:remoteCommand primefaces-p:resetInput primefaces-p:resizable primefaces-p:ring primefaces-p:row primefaces-p:rowEditor primefaces-p:rowExpansion primefaces-p:rowToggler primefaces-p:schedule primefaces-p:scrollPanel primefaces-p:selectBooleanButton primefaces-p:selectBooleanCheckbox primefaces-p:selectCheckboxMenu primefaces-p:selectManyButton primefaces-p:selectManyCheckbox primefaces-p:selectManyMenu primefaces-p:selectOneButton primefaces-p:selectOneListbox primefaces-p:selectOneMenu primefaces-p:selectOneRadio primefaces-p:separator primefaces-p:slideMenu primefaces-p:slider primefaces-p:socket primefaces-p:spacer primefaces-p:spinner primefaces-p:splitButton

primefaces-p:stack primefaces-p:submenu primefaces-p:subTable primefaces-p:summaryRow primefaces-p:tab primefaces-p:tabMenu primefaces-p:tabView primefaces-p:tagCloud primefaces-p:terminal primefaces-p:themeSwitcher primefaces-p:tieredMenu primefaces-p:toolbar primefaces-p:toolbarGroup primefaces-p:tooltip primefaces-p:tree primefaces-p:treeNode primefaces-p:treeTable primefaces-p:watermark primefaces-p:wizard



http://www.primefaces.org/showcase/



Paramètres Adobe Flash Player

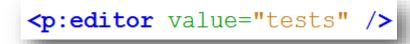
• Exemple du calendrier du formulaire

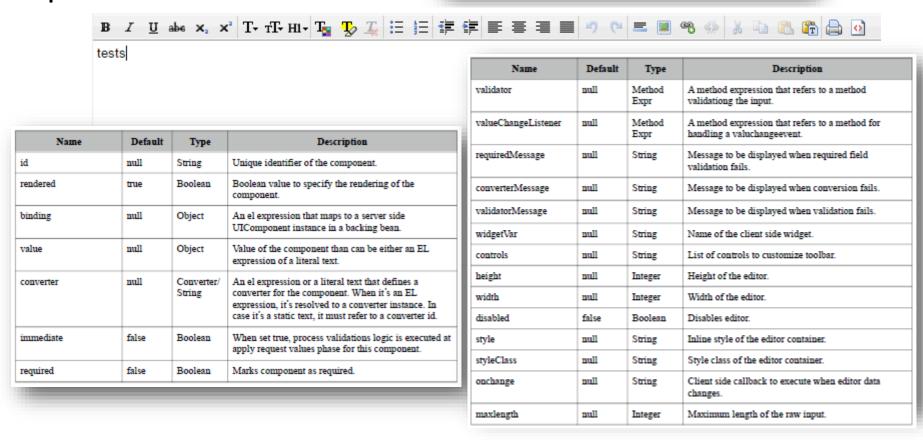
• Simple accés au web cam





• Exemple Editor









Exemple AccordionPanel

→ First Tab Title

Lorem ... More content for first tab

Second Tab Title





Exemple Carousel

Carousel is a multi purpose component to display a set of data or general content with slide effects.



BdcrudjsfEA-war

Web Pages

WEB-INF

images

afghane.jpg

sall.jpg

sarr.jpg

thiam.jpg

content gallery component with

a slide animation.

• Exemple **ContentFlow**

```
private List<String> images = new ArrayList<>(Arrays.asList(
        "thiam.jpg", "sarr.jpg", "sall.jpg", "afghane.jpg"));
public List<String> getImages() {
    return images;
public void setImages(List<String> images) {
    this.images = images;
<p:contentFlow var="image" value="#{etudiantJSFManagedBean.images}">
    <p:graphicImage value="/images/#{image}" styleClass="content" />
</p:contentFlow>
```





BdcrudjsfEA-war

Web Pages

WEB-INF

images

afghane.jp

sarr.jpg

thiam.jpg

Galleria is used to display a set of images.

• Exemple Galleria







ColorPicker is an input component with a color palette.

Exemple Color Picker

</h:body>



Name	Default	Туре	Description
valueChangeListener	null	ValueChange Listener	A method binding expression that refers to a method for handling a valuchangeevent.
requiredMessage	null	String	Message to be displayed when required field validation fails.
converterMessage	null	String	Message to be displayed when conversion fails.
validatorMessage	null	String	Message to be displayed when validation fields.
widgetVar	null	String	Name of the client side widget.
mode	popup	String	Display mode, valid values are "popup" and "inline".
style	null	String	Inline style of the component.
styleClass	null	String	Style class of the component.





null

null

bottom

50

center

Name

rendered

binding

model

position

itemWidth

maxWidth

proximity

halign

Default

String

Boolean

Object

Integer

Integer

Integer

String

MenuModel

Description

Boolean value to specify the rendering of the component, when set to false component will not

An el expression that maps to a server side UIComponent instance in a backing bean

MenuModel instance to create menus

Position of the dock, bottom or top.

Unique identifier of the component

be rendered.

programmatically

Initial width of items

Distance to enlarge.

Horizontal alignment,

Maximum width of items

Exemple Dock

Dock component mimics the well known dock interface of Mac OS X.

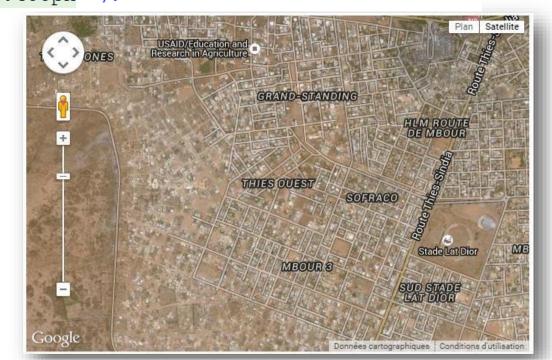


```
<p:dock>
                                           widgetVar
                                                     String
                                                             Name of the client side widget.
    <p:menuitem value="Home" icon="/images/dock/home.png" url="#" />
    <p:menuitem value="Music" icon="/images/dock/music.png" url="#" />
    <p:menuitem value="Video" icon="/images/dock/video.png" url="#"/>
    <p:menuitem value="Email" icon="/images/dock/email.png" url="#"/>
    <p:menuitem value="Link" icon="/images/dock/link.png" url="#"/>
    <p:menuitem value="RSS" icon="/images/dock/rss.png" url="#"/>
    <p:menuitem value="History" icon="/images/dock/history.png" url="#"/>
</p:dock>
```



GMap is a map component integrated with Google Maps API V3.

Exemple GMap







Exemple Keyboard

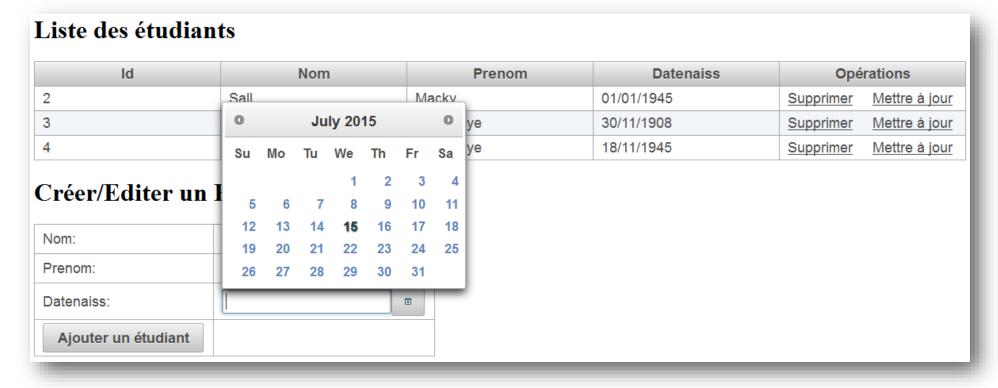
<p:keyboard value="value" />

Keyboard is an input component that uses a virtual keyboard to provide the input. Notable features are the customizable layouts and skinning ities.







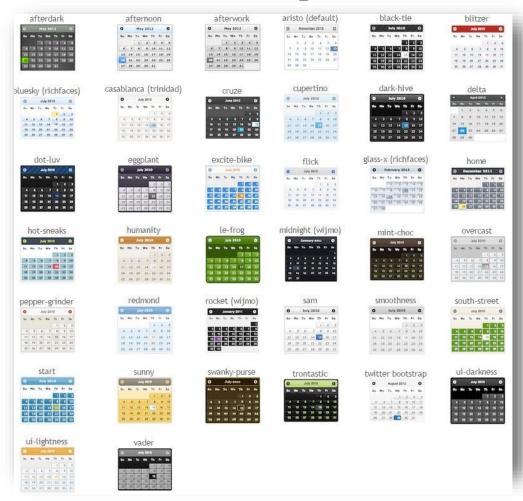


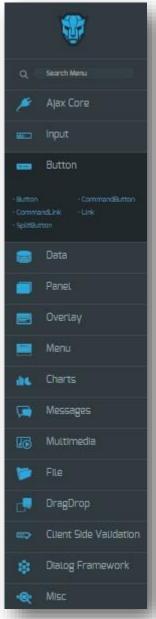


http://www.primefaces.org/showcase/

PrimeFaces

Thèmes (+30 thèmes prédéfinis

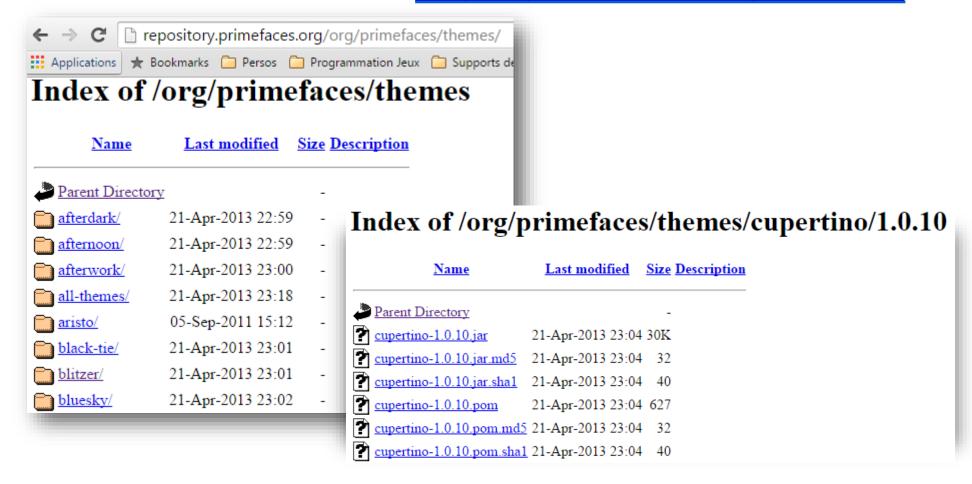








 Télécharger le jar d'un des thèmes et l'ajouter au projet http://primefaces.org/themes





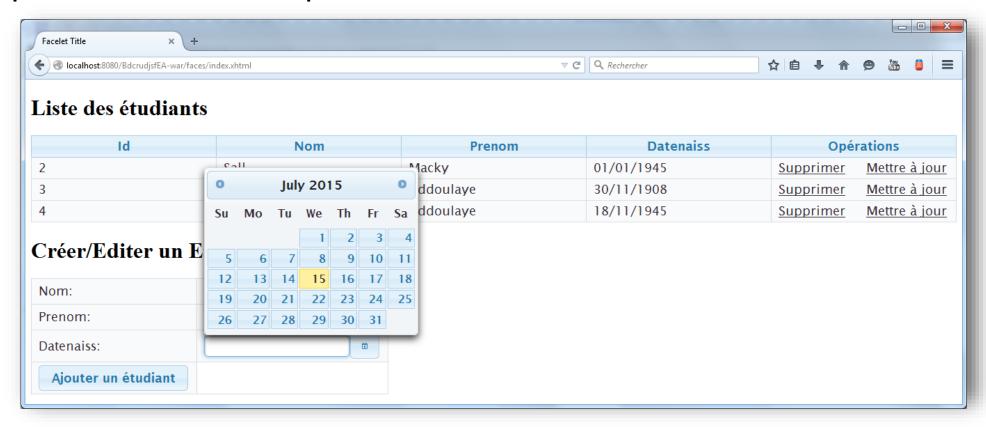


• Ajouter le nom du thème approprié dans le fichier « web.xml »





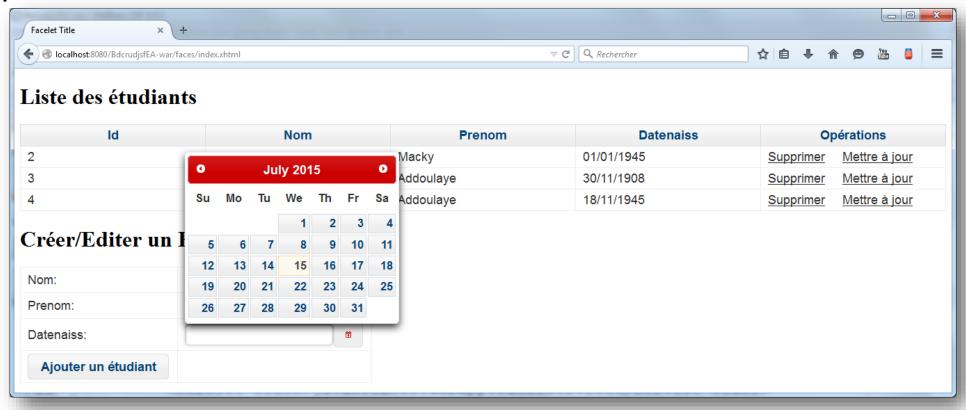
Aspect du théme « cupertino »







Aspect du théme « blitzer »







```
<p:accordionPanel>
   <p:tab title="Affichage des étudiants">
        <f:view>
            <h:form>
                <h1><h:outputText value="Liste des étudiants"/></h1>
                <p:dataTable value="#{etudiantJSFManagedBean.listeEtudiants}" var="item"
                             style="margin: auto; text-align: left" class="table1">
                    <p:column ...6 lines />
                    <p:column ...6 lines />
                    <p:column ...6 lines />
                    <p:column ...8 lines />
                    <p:column ...9 lines />
                </p:dataTable>
            </h:form>
        </f:view>
   </p:tab>
</p:accordionPanel>
```







 Affichage des étudiants Créer/Editer un Etudiant Nom: Prenom: Datenaiss: • Ajouter un étudiant ▼ Affichage des étudiants Liste des étudiants Opérations **Datenaiss** Nom Prenom Sall Macky 01/01/1945 Mettre à jour Wade 30/11/1908 Addoulaye Mettre à jour Diop Addoulaye 18/11/1945 Supprimer Mettre à jour Créer/Editer un Etudiant Nom: Prenom: Datenaiss: Ajouter un étudiant







```
<p:accordionPanel>
   <p:tab title="Affichage des étudiants">
        <f:view>
            <h:form>
                <h1><h:outputText value="Liste des étudiants"/></h1>
                <p:dataTable value="#{etudiantJSFManagedBean.listeEtudiants}" var="item"
                             style="margin: auto; text-align: left" class="table1">
                    <p:column ...6 lines />
                    <p:column ...6 lines />
                    <p:column ...6 lines />
                    <p:column ...8 lines />
                    <p:column ...9 lines />
                </p:dataTable>
            </h:form>
        </f:view>
   </p:tab>
</p:accordionPanel>
```



Bibliographie

- The Java EE 6 Tutorial, http://docs.oracle.com/javaee/6/tutorial/doc/javaeetutorial6.pdf
- http://www.ibm.com/developerworks/library/j-jsf1/
- http://www.ibm.com/developerworks/library/j-jsf2/
- http://www.ibm.com/developerworks/library/j-jsf3/

