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Intro to JSF

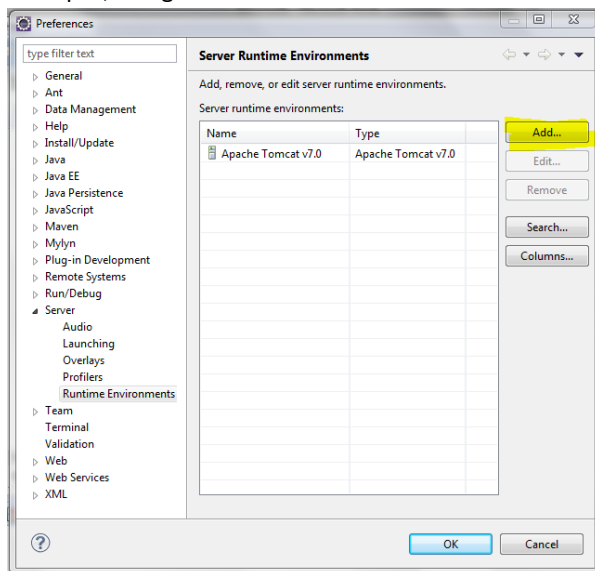
Sharlina Keshava

Resources		
Primefaces	Ui library (4.0 snapshot)	http://www.primefaces.org/showcase/ui/home.jsf
	Tag library (3.5)	http://www.primefaces.org/docs/vdl/3.4/alltags-noframe.html
	User Guide (3.5)	http://www.primefaces.org/documentation.html
	Relevant classes	http://www.primefaces.org/docs/api/3.4/org/primefaces/
	Component source code	http://code.google.com/p/primefaces/source/browse/primefaces/trunk/src/main/resources/META-INF/resources/primefaces/?r=9553
	Classes source code	http://code.google.com/p/primefaces/source/browse/primefaces/trunk/src/main/java/#java%2Forg%2Fprimefaces
Balus C	In depth explanations	http://balusc.blogspot.com/2011/09/communication-in-jsf-20.html
Mkyong	Basic tutorials	http://www.mkyong.com/tutorials/jsf-2-0-tutorials/
DeveloperAM	Getting started	http://www.developer.am/primefaces/

Setting up JSF with Eclipse and Tomcat

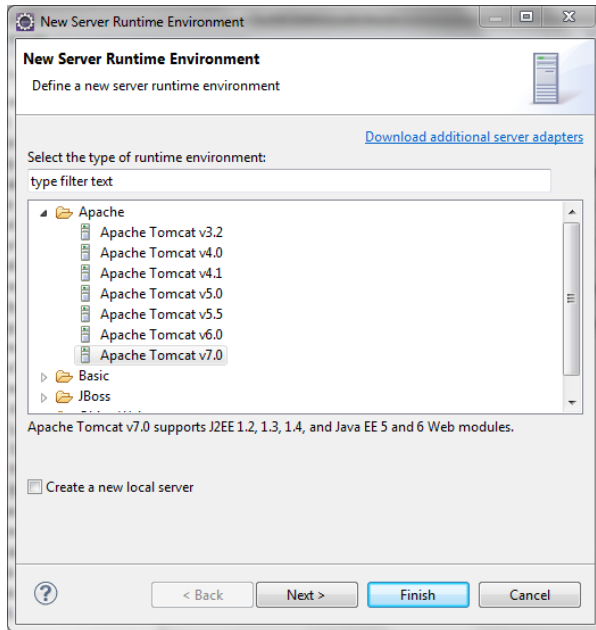
<http://balusc.blogspot.com/2008/01/jsf-tutorial-with-eclipse-and-tomcat.html>
<http://www.mkyong.com/jsf2/how-to-make-eclipse-ide-supports-jsf-2-0/>

- Must have Eclipse Java EE for Developers
- Download [Tomcat server](#)
 1. Unzip to C:\Program Files (x86)\Java
 2. In Eclipse, navigate to Windows > Preferences > Servers > Runtime Environments and click the “Add” button

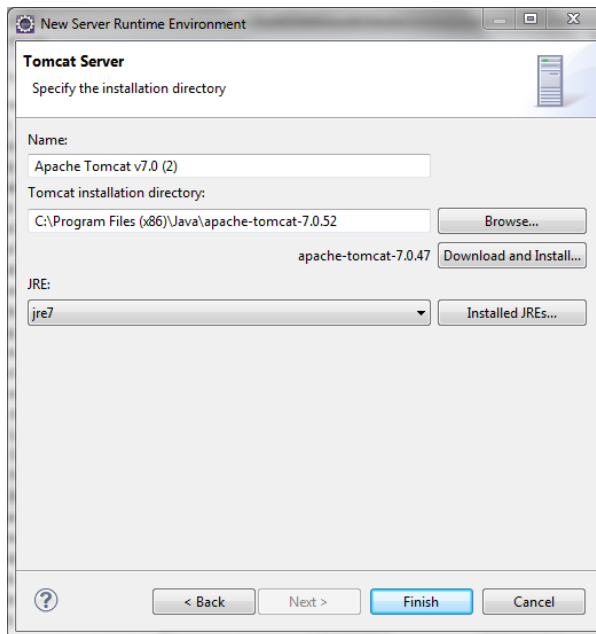


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3. In “New Server Runtime Environment Window” select version you wish to use. Then click “Next.”

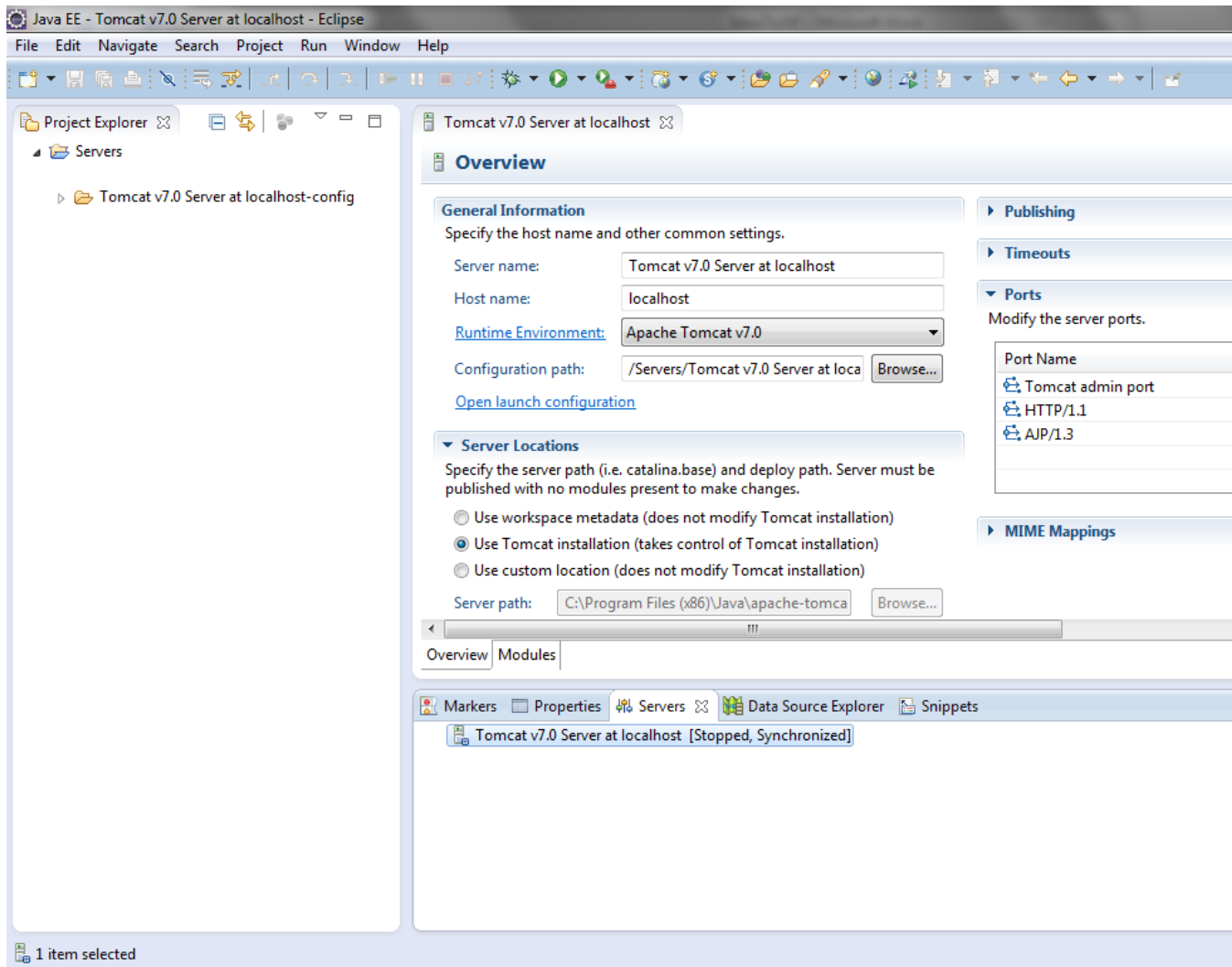


4. Click Browse to Tomcat server location. Click “Download and Install” and navigate to Tomcat server location. It should be located in your C:\Program Files (x86)\Java\ path if you followed the above instructions. Then select the matching Java runtime environment. You may have to update your JDK. Click finish.



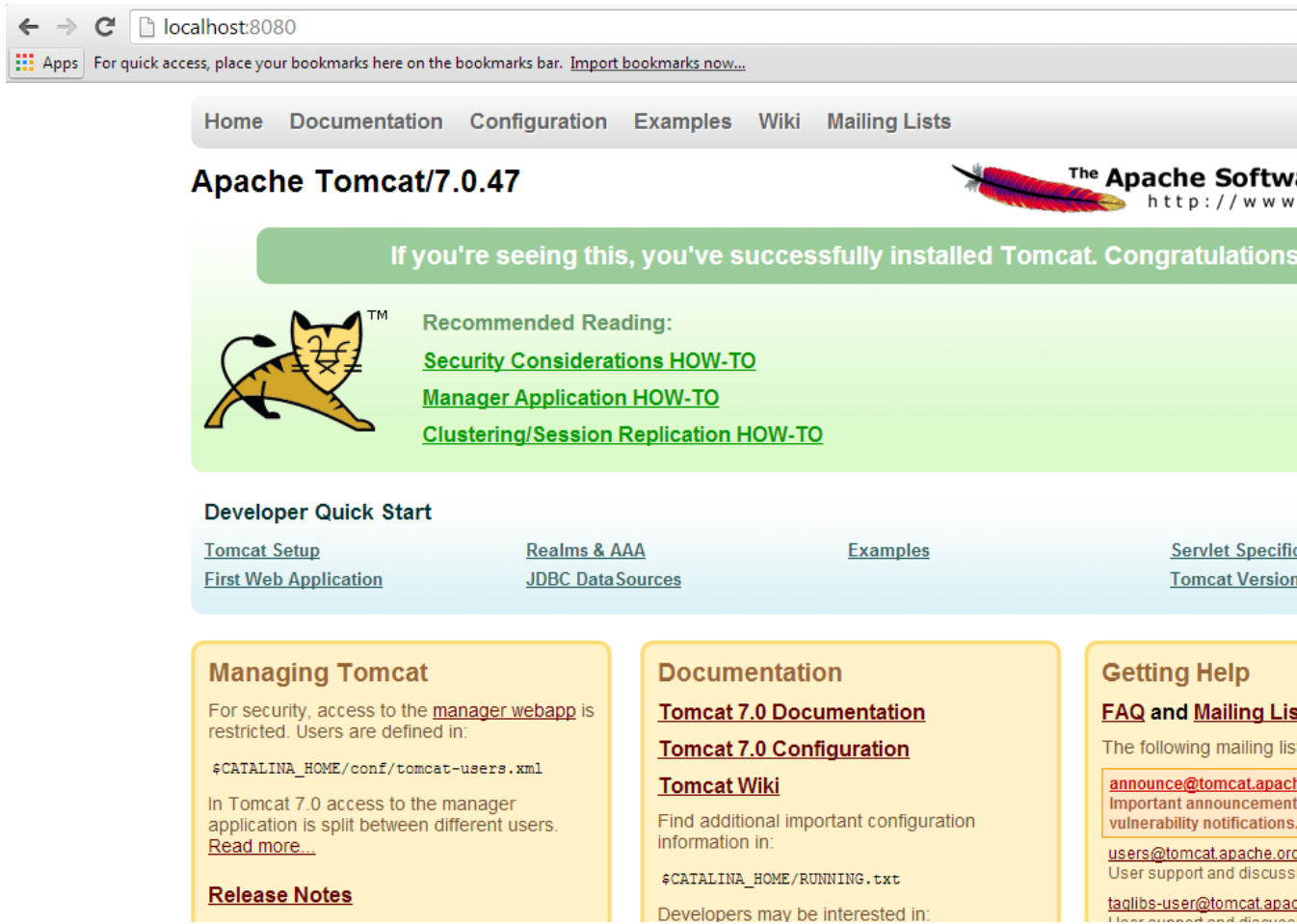
5. Right click in your “Servers” tab and create a new server. You must add your JSF project to the server in order for it to run. Double click the server and open up the configuration file (shown below). Under “Server Locations” select “Use Tomcat installation (takes control of Tomcat installation).” Save file. If you do not do this step, you will receive a 404 error.

[Type text]



- Click the play button on the right hand side of the server tab. Once the server is started and synchronized, go to your browser and type in <https://localhost:8080>. If everything has been done correctly, you should see the following screen. If you get a 404 error, this means that you either have not started the server, or you did not configure the server correctly. Try revisiting the previous step.

[Type text]



← → ↻ localhost:8080


Apps For quick access, place your bookmarks here on the bookmarks bar. [Import bookmarks now...](#)

Home Documentation Configuration Examples Wiki Mailing Lists

Apache Tomcat/7.0.47

The Apache Software Foundation <http://www.apache.org>

If you're seeing this, you've successfully installed Tomcat. Congratulations



Recommended Reading:

- [Security Considerations HOW-TO](#)
- [Manager Application HOW-TO](#)
- [Clustering/Session Replication HOW-TO](#)

Developer Quick Start

- [Tomcat Setup](#)
- [First Web Application](#)
- [Realms & AAA](#)
- [JDBC DataSources](#)
- [Examples](#)
- [Servlet Specifications](#)
- [Tomcat Versioning](#)

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:

```
$CATALINA_HOME/conf/tomcat-users.xml
```

In Tomcat 7.0 access to the manager application is split between different users. [Read more...](#)

[Release Notes](#)

Documentation

- [Tomcat 7.0 Documentation](#)
- [Tomcat 7.0 Configuration](#)
- [Tomcat Wiki](#)

Find additional important configuration information in:

```
$CATALINA_HOME/RUNNING.txt
```

Developers may be interested in:

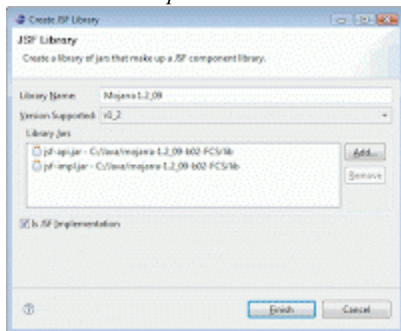
Getting Help

- [FAQ and Mailing Lists](#)

The following mailing lists:

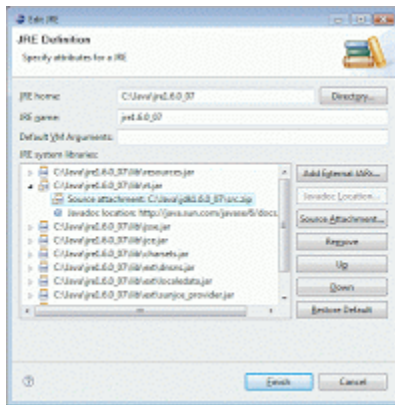
- announce@tomcat.apache.org: Important announcements, vulnerability notifications.
- users@tomcat.apache.org: User support and discussion.
- taglibs-user@tomcat.apache.org: User support and discussion.

- Download the [jstl-1.2.jar](#) and put it in your C:\Java\apache-tomcat-6.0.18\lib directory, which is the main classpath of Tomcat.
- Download the binary of the [latest Mojarra release](#). Extract the zip and move the child directory mojarra-1.2_09-b02-FCS to C:\Java\mojarra-1.2_09-b02-FCS
 - In the *Preferences* dialogue, go to *Java » Build Path » User Libraries* and click *New*.
 - Give the library an unique name, e.g. Mojarra 1.2_09. Set *Version Supported* to v1_2. Under *Library Jars*, click *Add*, navigate to C:\Java\mojarra-1.2_09-b02-FCS\lib, select the both JAR's jsf-api.jar and jsf-impl.jar and add them.
 - Check *Is JSF Implementation* and click *Finish*.



- Ensure that you have a version of JRE in your C:\Java folder.
 - In the top menu, go to *Window » Preferences » Java » Installed JREs*.
 - Select the current JRE (it should automatically be the same as you have installed) and click *Edit*. Select the C:\Java\jre1.6.0_07\lib\rt.jar, click at *Source Attachment*, click at *External File*, navigate to C:\Java\jdk1.6.0_07, select the src.zip file and add it. Now the source code of the Java SE API is available in Eclipse.

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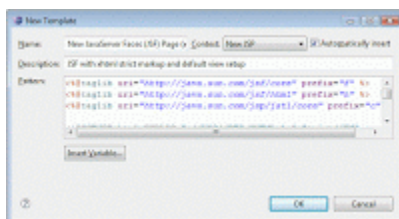


- Set up JSF template
 1. In the *Preferences* dialogue, go to *Web » JSP Files » Editor » Templates* and click *New*.
 2. Enter name *New JavaServer Faces (JSF) Page (HTML5)*, select context *New JSP*, enter description *JSF with HTML5 markup and default view setup*, copy paste the following snippet in the pattern field and click *OK*:

```
<%@taglib uri="http://java.sun.com/jsf/core" prefix="f" %>
<%@taglib uri="http://java.sun.com/jsf/html" prefix="h" %>
<%@taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<!DOCTYPE html>

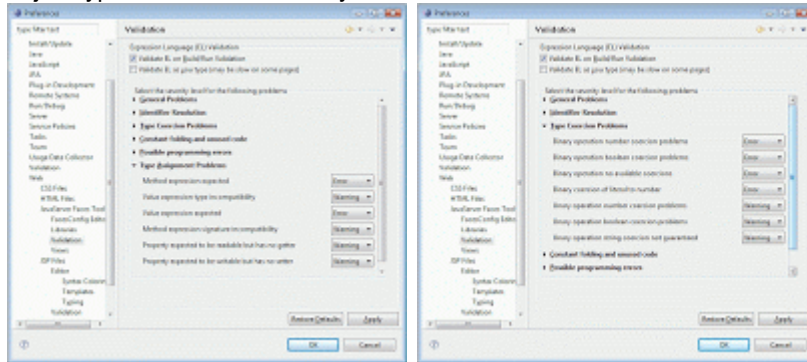
<f:view>
  <html lang="en">
    <head>
      <title>Insert title here</title>
    </head>
    <body>
      ${cursor}
    </body>
  </html>
</f:view>
```



- Eliminate unnecessary errors
 1. In the *Preferences* dialogue, go to *Web » JavaServer Faces Tools » Validation*
 2. under *Type Assignment Problems* set *Method expression signature incompatibility* to *Warning* or *Ignore* if you want to allow JSF action methods return void.
 3. set the *Unary operation number (and boolean) coercion problems* under *Type Coercion Problems* to *Warning* or *Ignore*, because it will unnecessarily give an error when you're using for example `UIComponent#getValue()` -which has

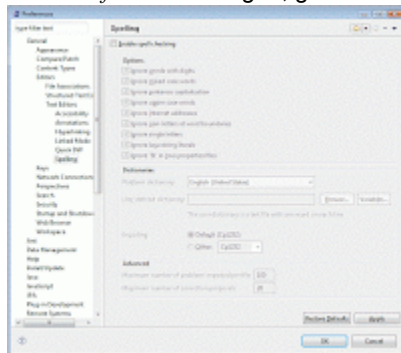
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Object type outcome- in EL but you treated it as number or boolean.



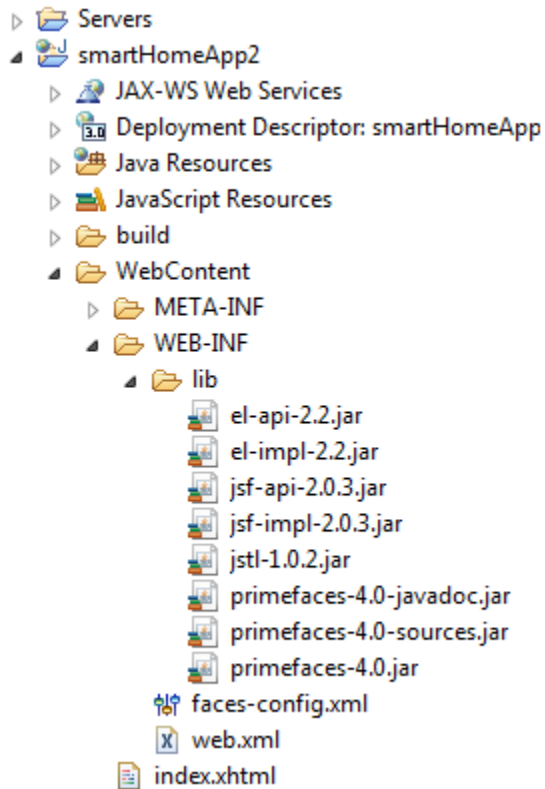
- Disable spelling errors

1. In the *Preferences* dialogue, go to *General » Editors » Text Editors » Spelling* and disable it.



- Import project as a zip file. Do not try to unzip the file and then copy and paste it into your workspace, because the project will lose a lot of its properties.
- Once the zip file is imported, navigate to Web Content > WEB-INF and double click on the file titled “master.xhtml.” This is the file that you will run to compile the project.
- Notes:
 1. Be sure to create a dynamic web project
 2. Be sure to add your project to the server
 3. Be sure that you have added all of your jars to your WEB-INF\lib folder.

[Type text]



4. be sure that your web.xml file is mapped correctly

```
<?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"
  version="3.0">
  <display-name>smartHomeApp2</display-name>
  <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>
    <description>State saving method: 'client' or 'server' (=default). See JSF Specification 2.5.2</description>
    <param-name>javax.faces.STATE_SAVING_METHOD</param-name>
    <param-value>client</param-value>
  </context-param>
  <context-param>
    <param-name>javax.servlet.jsp.jstl.fmt.localizationContext</param-name>
    <param-value>resources.application</param-value>
  </context-param>
  <listener>
    <listener-class>com.sun.faces.config.ConfigureListener</listener-class>
  </listener>

  <!--
    <context-param>
      <param-name>primefaces.THEME</param-name>
      <param-value>blitzer</param-value>
    </context-param> -->
</web-app>
```

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[Type text]

[Type text]

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