Configuration and Extensions

Basic Customization

eXo

Extension Concept

A War + Activation Jar

Reason

» Support

> » Avoids modifying source code in eXo deliveries

> » No support from eXo for modified code

» Advantages

> » Easy migration to new version

> » Easy application of patches from eXo support

> » Clear limit between eXo's code and customer's code

> » Like a PlugIn that you re-apply after each migration

Concept

- **Allows to customize**
  - HTML, CSS, Javascript, JSP
  - Groovy Templates
  - Configuration
  - Internationalization

- **A war file**
  - Contains all customization files
  - You can overwrite/replace files contained in other wars
  - Use the exact same path and name

- **An activation jar**
  - Declares your war as eXo extension

War Project

>> **Customizations**

>> Put all your customizations in a war file

>> If you wish to override, use the exact same path and file name

>> **web.xml**

>> Define the name of your extension in the tag "display-name"

>> The name of the war file does NOT matter

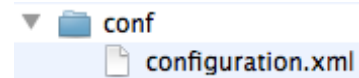>> Declare the listener PortalContainerConfigOwner

bike-extension

org.exoplatform.container.web.PortalContainerConfigOwner

Activation JAR

» **configuration.xml**

   » The JAR contains exactly one file in the folder "/conf"

   » Name: configuration.xml

   ▼ 📁 conf
     📄 configuration.xml

» **Activate the war**

   » Service: org.exoplatform.container.definition.PortalContainerConfig

   » Point to the name of the extension, defined in the web.xml tag "display-name"

```
<object type="org.exoplatform.container.definition.PortalContainerDefinitionChange$AddDependencies">


  bike-extension


</object>
```

Deployment

» **Tomcat**

>> Stop tomcat

>> Copy the jar to tomcat/lib

>> Copy the war to tomcat/webapps

» **Tomcat loading order**

>> You extension must be load before the starter.war

>> To ensure this declare your extension

>> Declare the bike-extension in tomcat/conf/catalina/localhost/

» **JBoss**

>> In JBoss, create a ear containing the war and jar and deploy it

Test

» Testing

- » After copying the war and jar you can test the extension

- » Restart tomcat

- » When re-deploying a modified war, stop tomcat, delete the war folder in tomcat/webapps and restart

Extension Exercise

A War + Activation Jar

eXo

Extension Exercise Overview

» **In this exercise you will**

  » Modify the Admin Tool Bar

  » Alter the login interface

  » Add a language

» **Maven**

  » Go to the folder with pom.xml and execute "mvn clean install"

  » If you are online maven will download a lot of files

  » Alternatively you can use the provided repository

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