



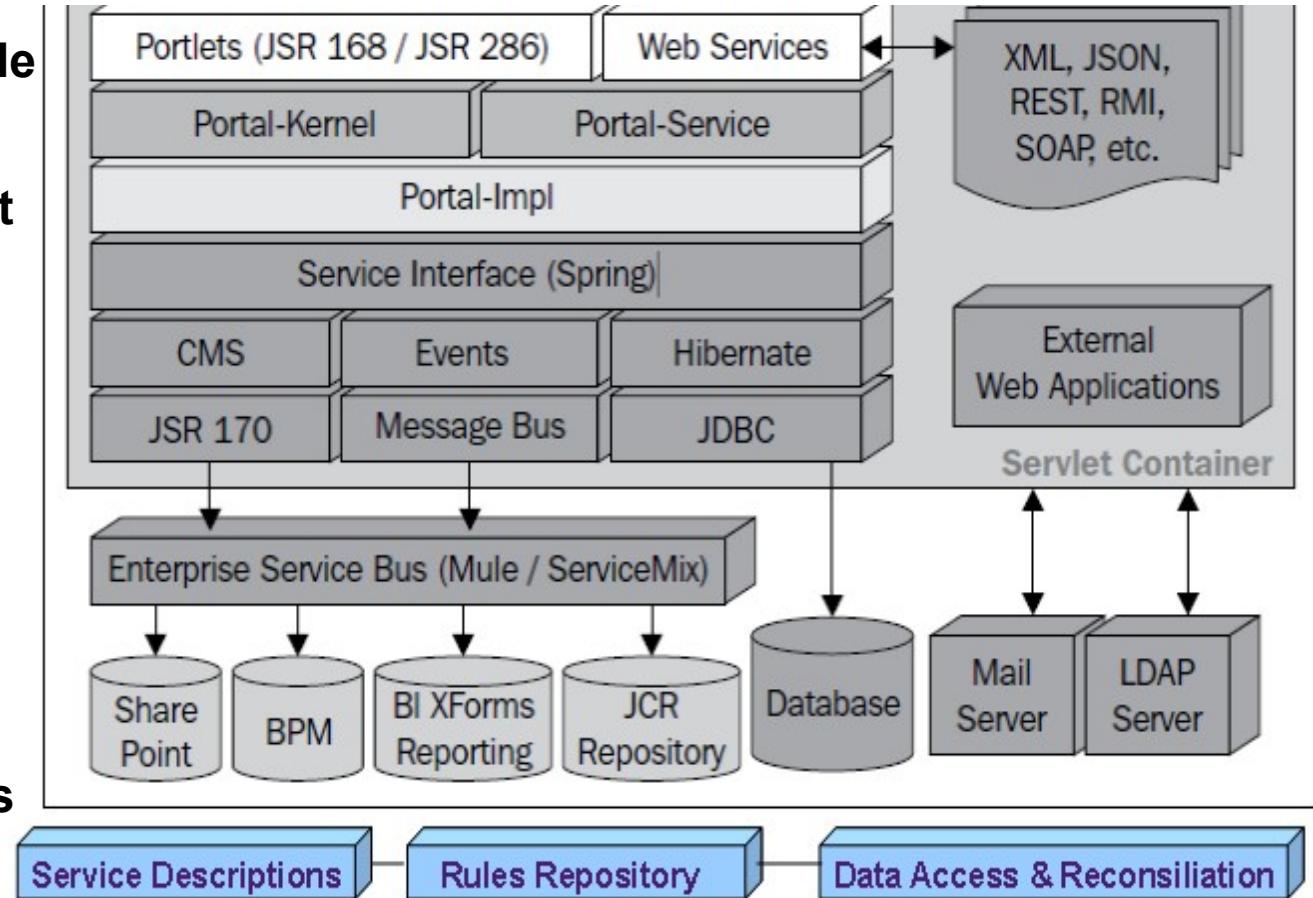
Finish Setting Up Liferay EXT Environment

- Repetition:

- **Liferay-Tomcat bundle**
- **MySQL DB Install**
- **Customize setenv.bat**
- **Connect to DB**

- Liferay EXT:

- **Ant**
- **Subversion**
- **Tomcat Plugin**
- **Get Portal Source**
- **Customize Properties**



Finishing Liferay EXT: Complementary Semantics (DataService) Frameworks: Data, Services, Rules & Scenarios

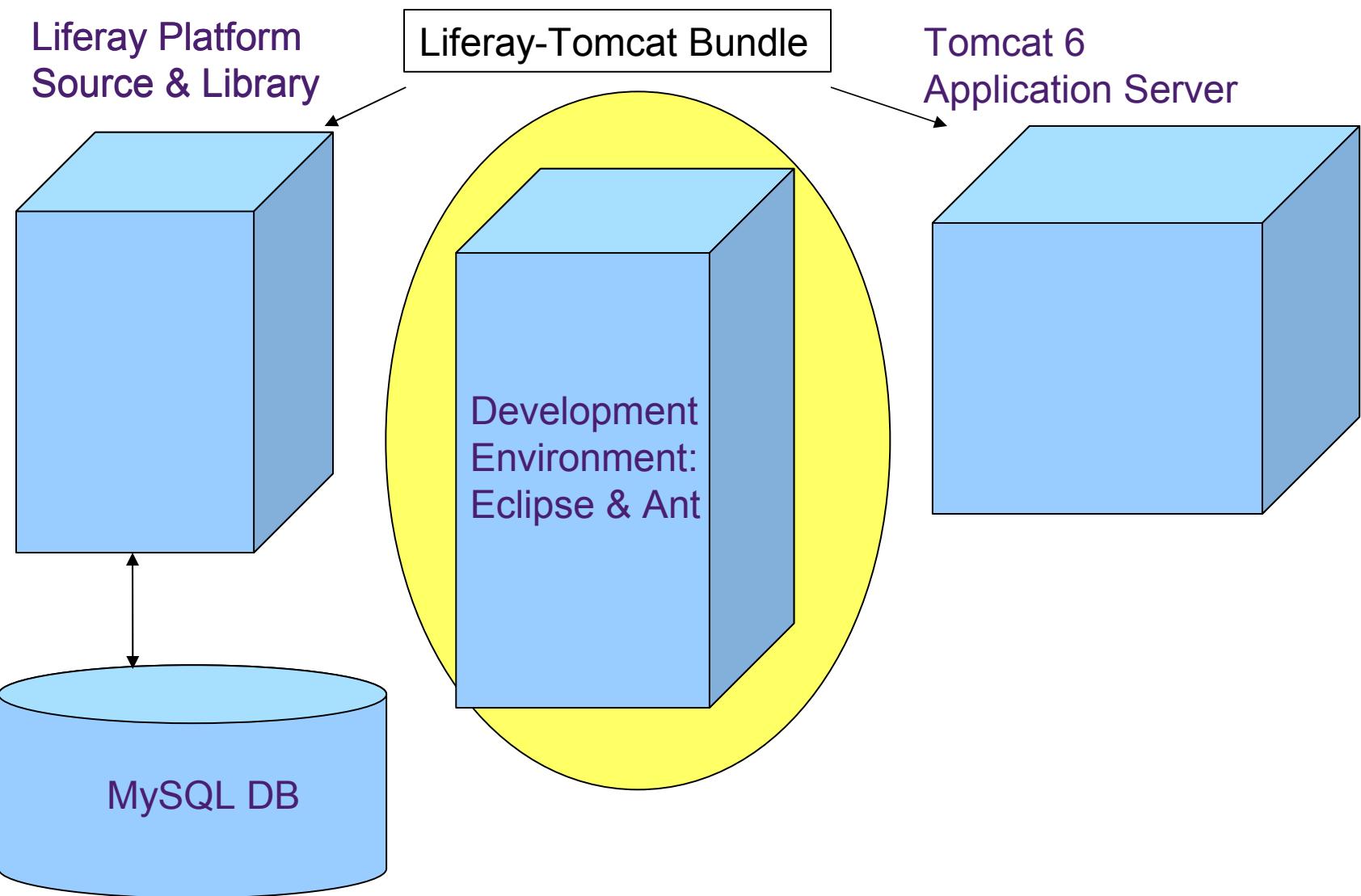
- **Customize EXT Properties and Build EXT**

Start customizing Liferay

dean@JavaSchool.com



Basic Components





Use SVN to Update the Source

Right-click on
the Java project

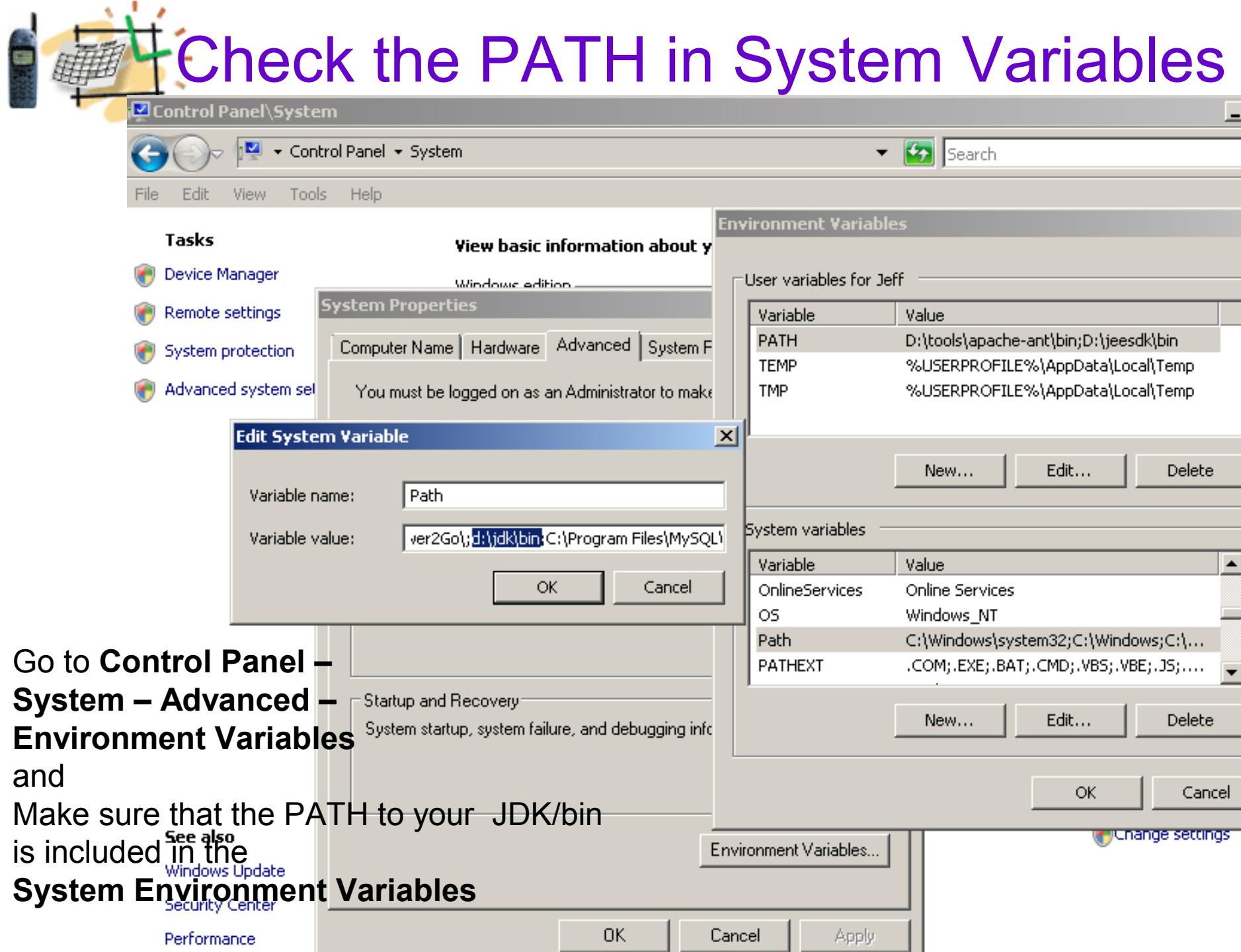
portal,

select

Team - Update to HEAD

The screenshot shows a Java IDE interface with a context menu open over a project named 'portal [portal/trunk]'. The menu is organized into several sections:

- Common Actions:** New, Go Into, Open in New Window
- Copy/Paste:** Copy, Paste
- Delete:** Delete
- Move/Rename:** Move..., Rename...
- Import/Export:** Import..., Export...
- Refresh:** Refresh, Close Project, Close Unrelated Projects
- Validation:** Validate, Show in Remote Systems view
- Run/Debug:** Run As, Debug As, Profile As
- Team:** Team (highlighted in blue), Compare With
- Branching/Merging:** Synchronize with..., Commit..., Update to HEAD (highlighted in blue), Update to Version..., Create Patch..., Apply Patch..., Branch/Tag..., Merge..., Switch to another...
- History/Properties:** Show History, Show Tree Conflict..., Show Properties, Show Revision Graph...
- Advanced Options:** Add to Version Control..., Add to svn:ignore, Set Property..., Revert..., Edit conflicts..., Mark Resolved..., Copy..., Export..., Configure Branch..., Cleanup, Disconnect...



Go to Control Panel –
System – Advanced –
Environment Variables
and
Make sure that the PATH to your JDK/bin
is included in the
System Environment Variables



Build the Java Project EXT

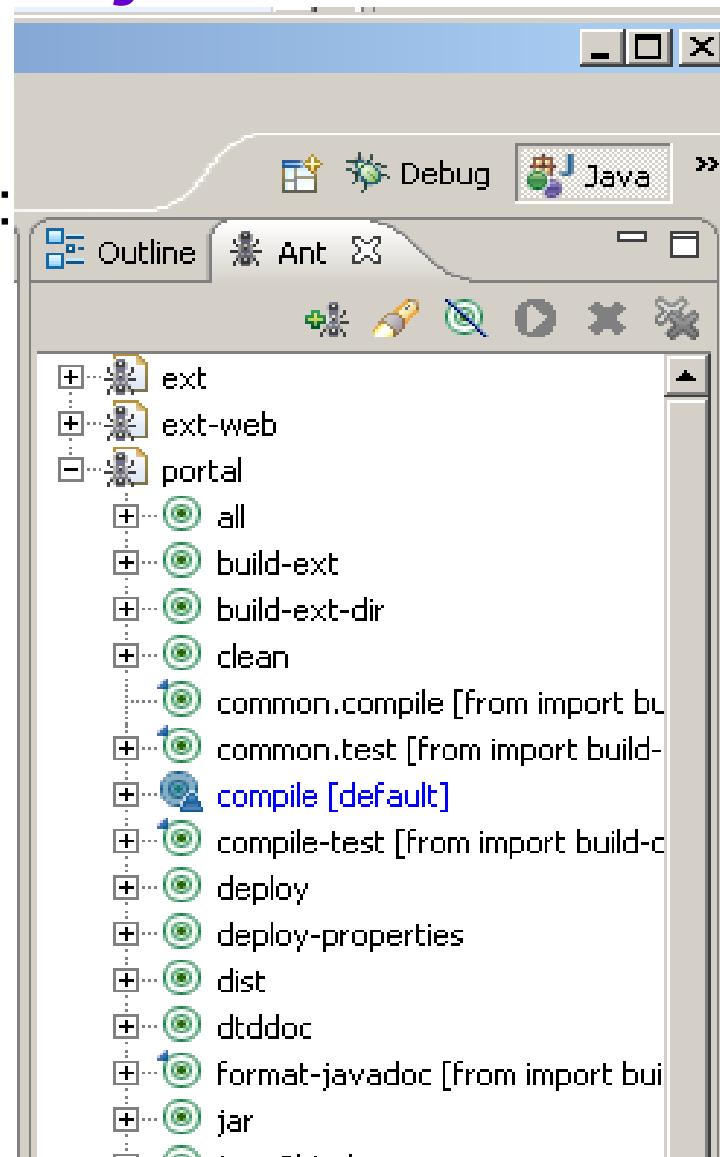
1. Open the **Ant** view in the Eclipse IDE:
- **Window - Show View – Ant**

Drag the build.xml file under the **/portal** to the **Ant** view

Double-click on the target **clean** in the **Ant** view.

2. Double-click on the target **start**

3. Double-click on the target **build-ext**





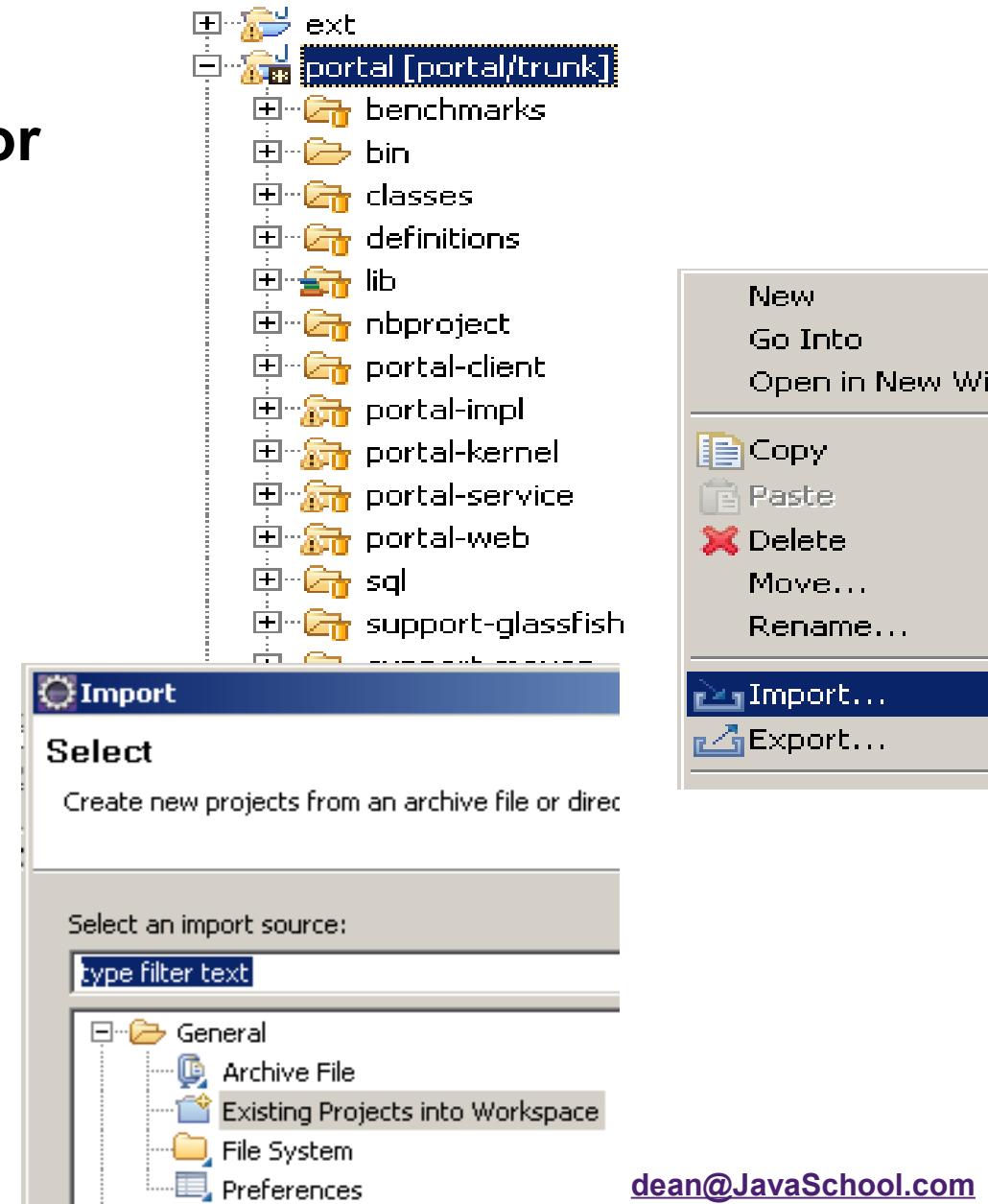
Import EXT Source

1. Right-click on the **Navigator** view and select **Import...**

2. Select an import source:
**General - Existing Projects
into Workspace**

3. The root directory:
c:/liferay/workspace/ext

4. Select ext
(c:/liferay/workspace/ext).



5. Click on the **Finish** button.



Set portal-ext.properties

MySQL

jdbc.default.driverClassName=com.mysql.jdbc.Driver

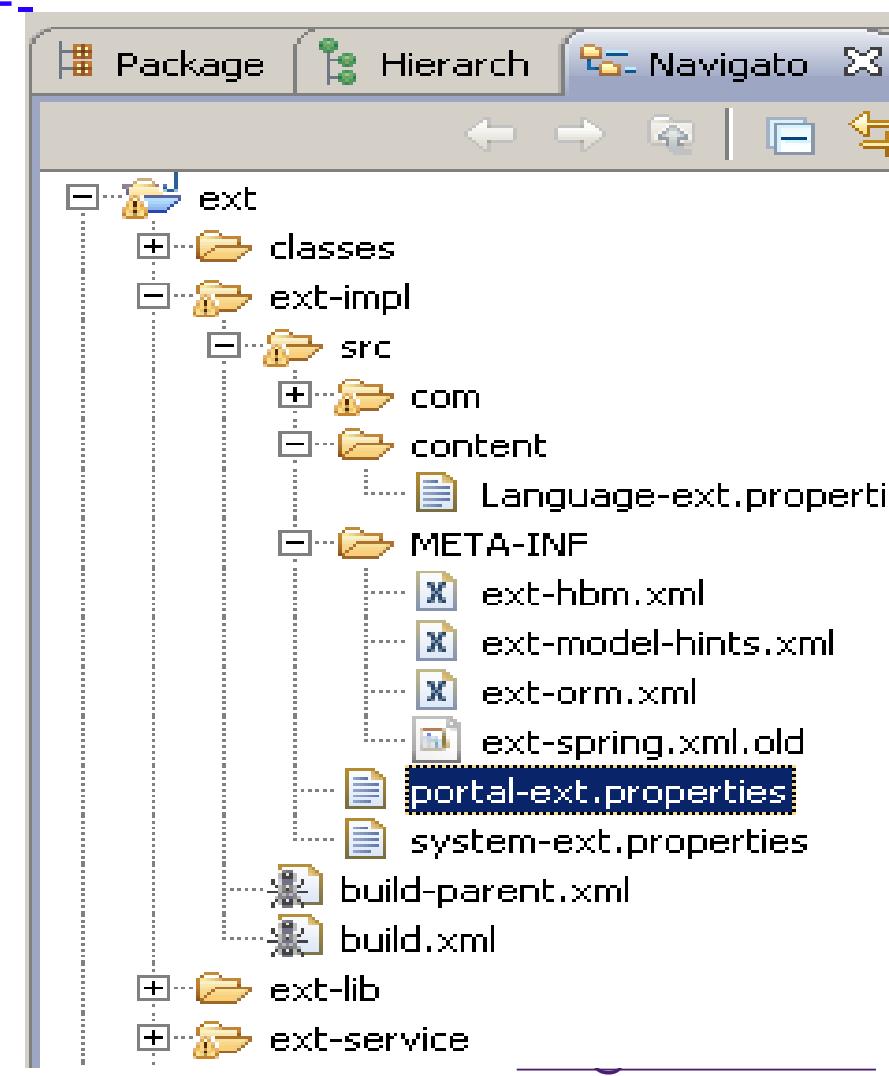
jdbc.default.url=jdbc:mysql://localhost/lportal?

useUnicode=true&characterEncoding=UTF-

8&useFastDateParsing=false

jdbc.default.username=root

jdbc.default.password=train





Customize EXT Property Files

1. Copy the following files:

build.\${user.name}.properties

app.server.\${user.name}.properties)

from the **/portal** project to the **/ext** project

2. In the /ext project, open the file:

build.\${user.name}.properties

At the bottom, add the line:

lp.ext.dir=c:/liferay/workspace/ext



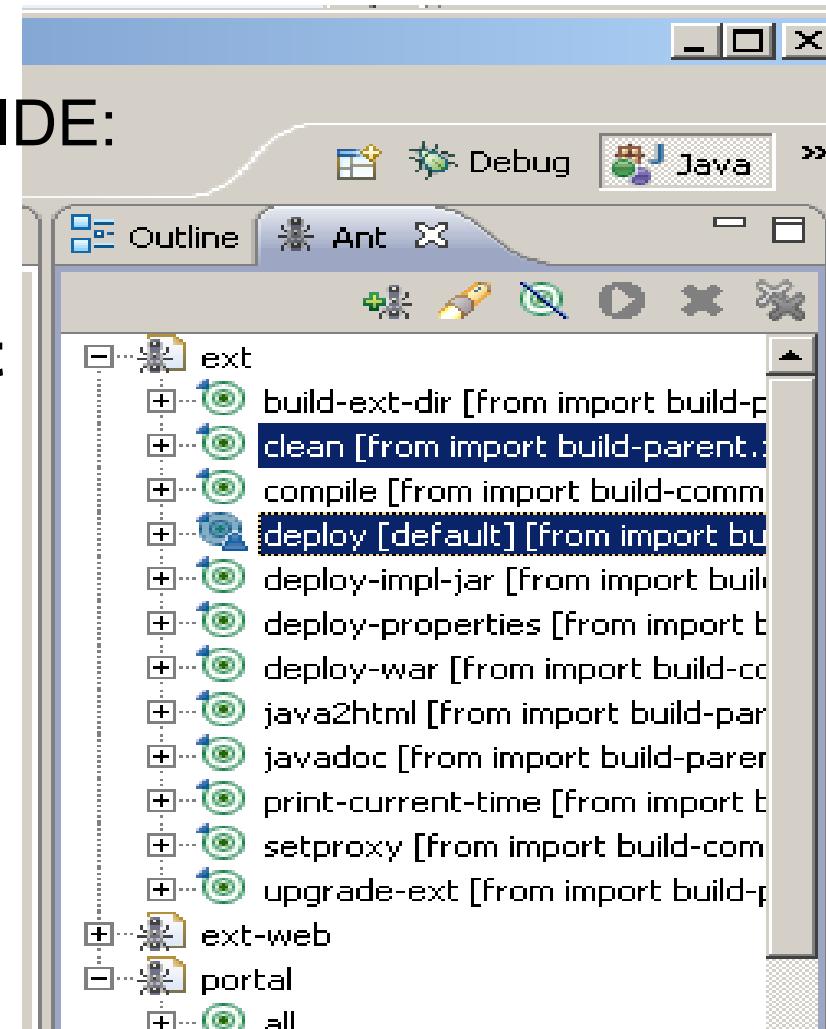
Clean and Deploy EXT project

1. Open the **Ant** view in the Eclipse IDE:
- **Window - Show View – Ant**

Drag the build.xml file under the **/ext** to the **Ant** view

2. Double-click on the target **clean** in the **Ant** view.

3. Double-click on the target **deploy**





Fast Deploy of Web Changes in the EXT project

For changes in the ext/ext-web

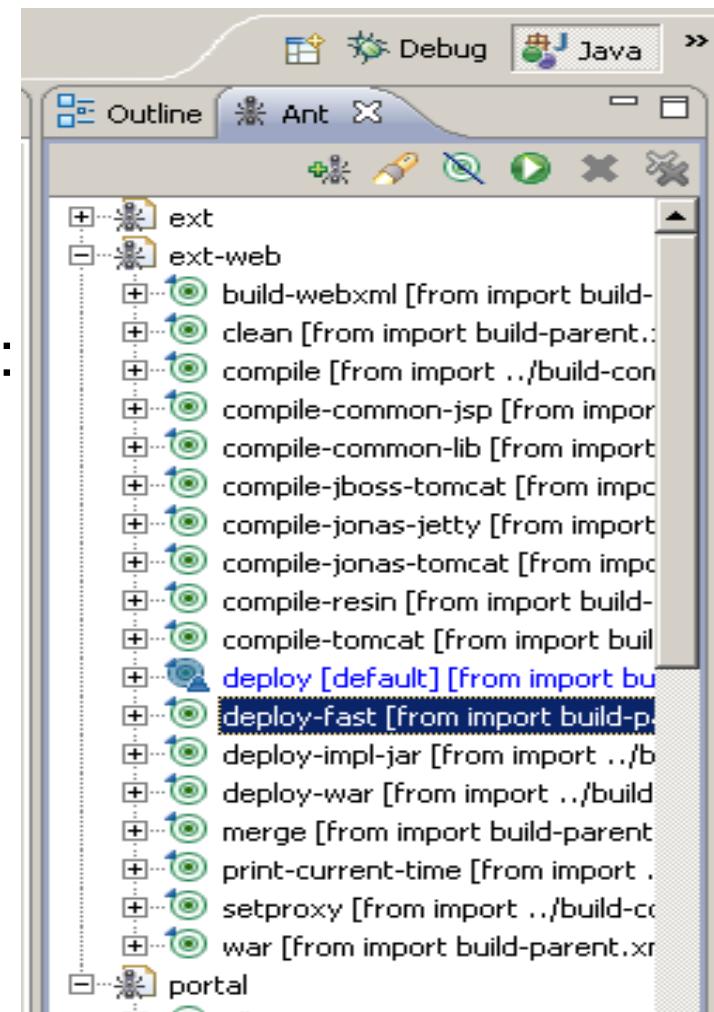
For example, jsp, css, or images

There is the **deploy-fast** method

1. Open the **Ant** view in the Eclipse IDE:
- Window - Show View – Ant

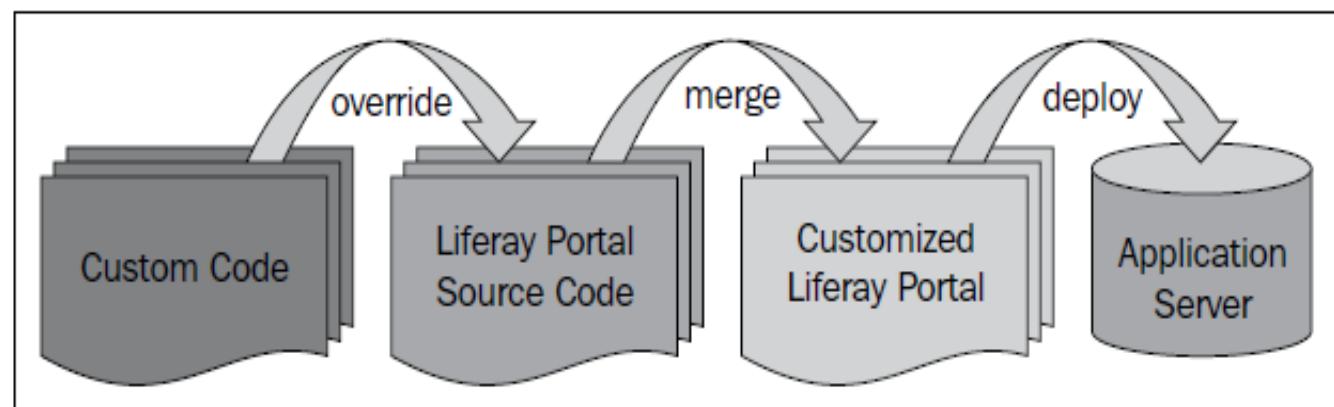
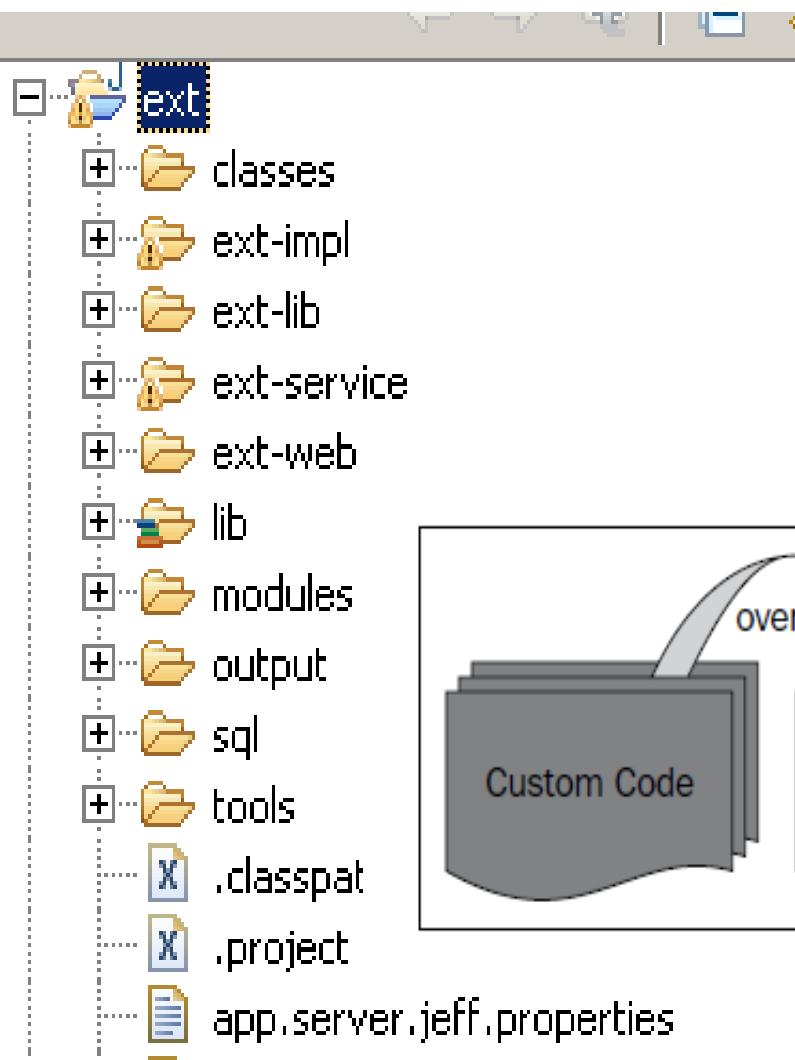
Drag the build.xml file under
the /ext/ext-web
to the **Ant** view

2. Double-click on the deploy-fast





EXT Environment



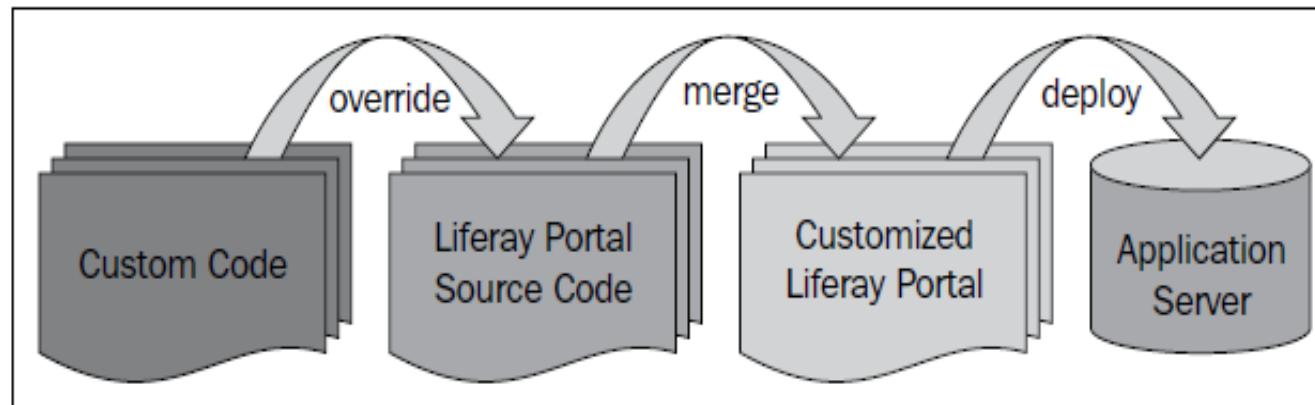


EXT Environment

What is EXT?

Ext is a wrapper for Liferay portal core source directories (that is, ext-impl/, ext-service/, and ext-web/).

EXT allows the users to develop on top of Liferay source





Check the Deployment and Start Liferay!

Portal API Library Jars are deployed in the Tomcat6/lib/ext

Java - Eclipse SDK

File Edit Navigate Search Project Tomcat Run Window Help

Start Liferay!

Package Expl Hierarchy Navigator

CATALINA_HOME

- bin
- conf
- lib
- logs
- temp
- webapps

Liferay + EXT

Outline Ant

- ext-web
 - build-webxml [from import build-parent.xml]
 - clean [from import build-parent.xml]
 - compile [from import ../build-common.xml [from import build-parent.xml]]
 - compile-common-jsp [from import build-parent.xml]
 - compile-common-lib [from import build-parent.xml]
 - compile-jboss-tomcat [from import build-parent.xml]
 - compile-jonas-jetty [from import build-parent.xml]
 - compile-jonas-tomcat [from import build-parent.xml]
 - compile-resin [from import build-parent.xml]
 - compile-tomcat [from import build-parent.xml]
 - deploy [default] [from import build-parent.xml]
 - deploy-fast [from import build-parent.xml]
 - deploy-impl-jar [from import ../build-common.xml [from import build-parent.xml]]
 - deploy-war [from import ../build-common.xml [from import build-parent.xml]]
 - merge [from import build-parent.xml]
 - print-current-time [from import ../build-common.xml [from import build-parent.xml]]
 - setproxy [from import ../build-common.xml [from import build-parent.xml]]
 - war [from import build-parent.xml]

Java SVN Repository

dean@JavaSchool.com



Play with Portal and Portlets

Recollect JSR 286

(Java Specification Request)



A Portlet is an application that presents a fragment of a portal page

A Portlet Container assembles the portlets into a portal page



Customize Liferay

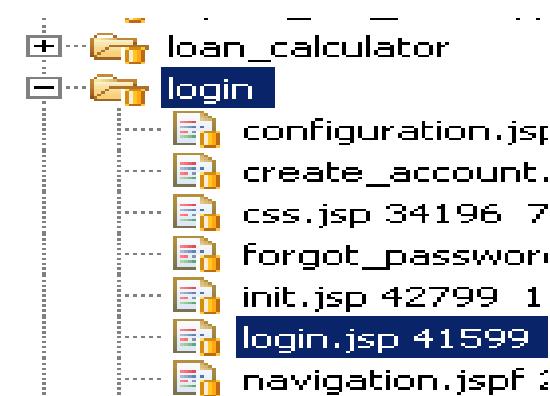
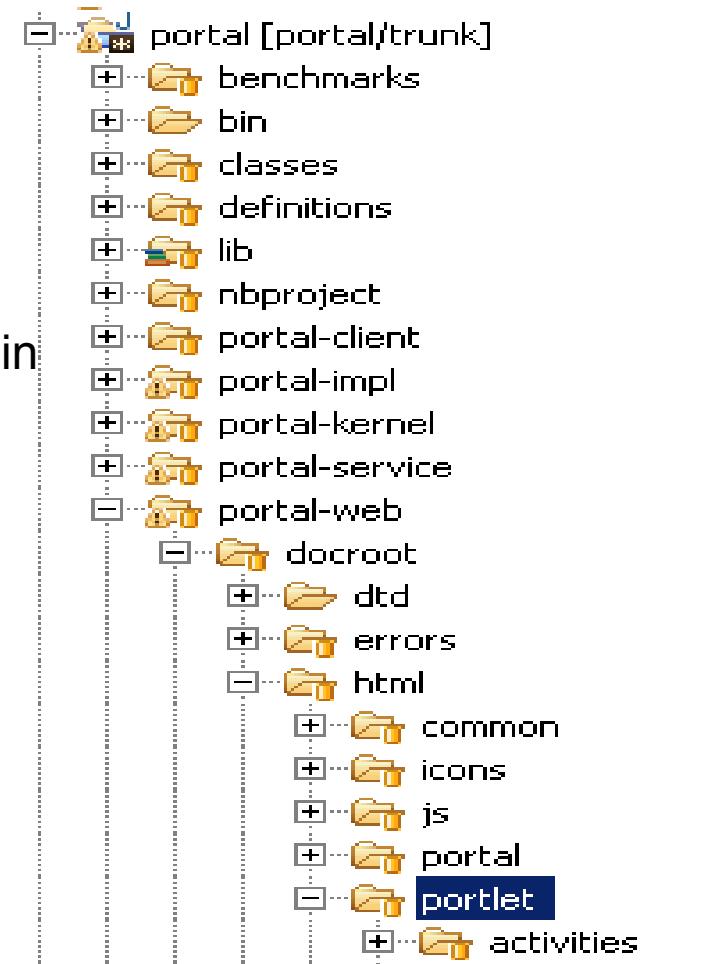
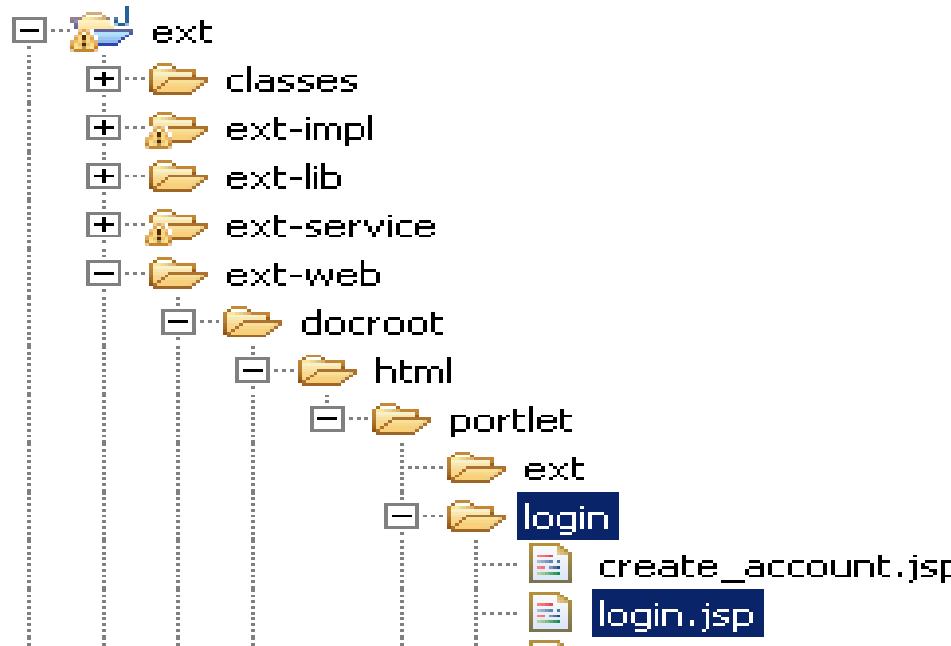
Create the folder: /ext/ext-web/docroot/html/portlet/login

Copy one file:

/portal/portal-web/docroot/html/portlet/login/login.jsp

To

/ext/ext-web/docroot/html/portlet/login/login.jsp





Customize the Login.JSP

Double click and Open in Eclipse the file:

/ext/ext-web/docroot/portlet/login/login.jsp

Look at the Login screen, we'd like to change the login label to
“Enter your login information”

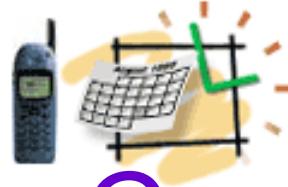
Find this line in the login.jsp source in Eclipse:

```
<aui:input label="<%=\nloginLabel %>" name="login" type="text" value="<%=\nlogin %>" />
```

Replace this line with:

```
<aui:input label="enter-your-login-information" name="login" type="text"  
value="<%=\nlogin %>" />
```

Deploy-Fast, Start Liferay and check your updated Login screen: we are almost there :-)



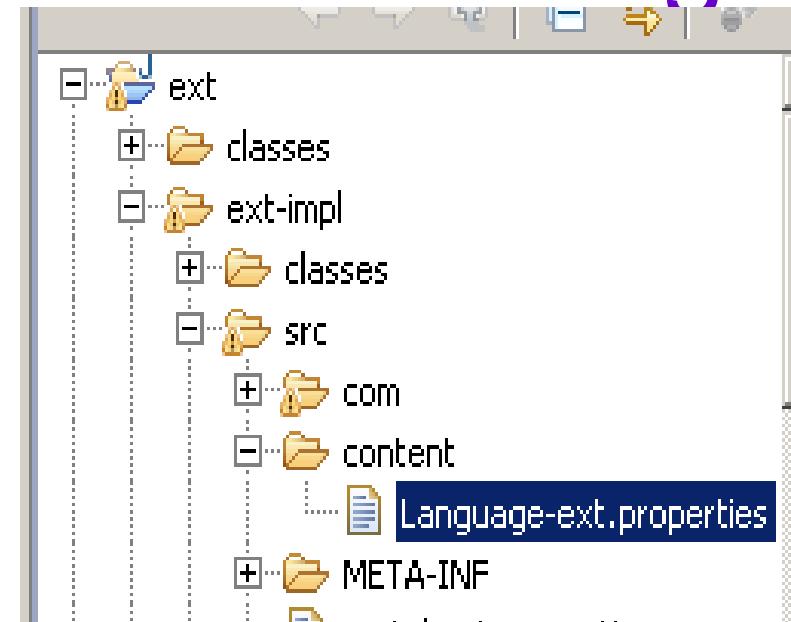
Customize International Messages

Open in Eclipse the file:

</ext/ext-impl/src/content/Language-ext.properties>

Add to the file this line:

[enter-your-login-information=Enter your login information](#)



Deploy-Fast, Start Liferay and check your updated Login

dean@JavaSchool.com



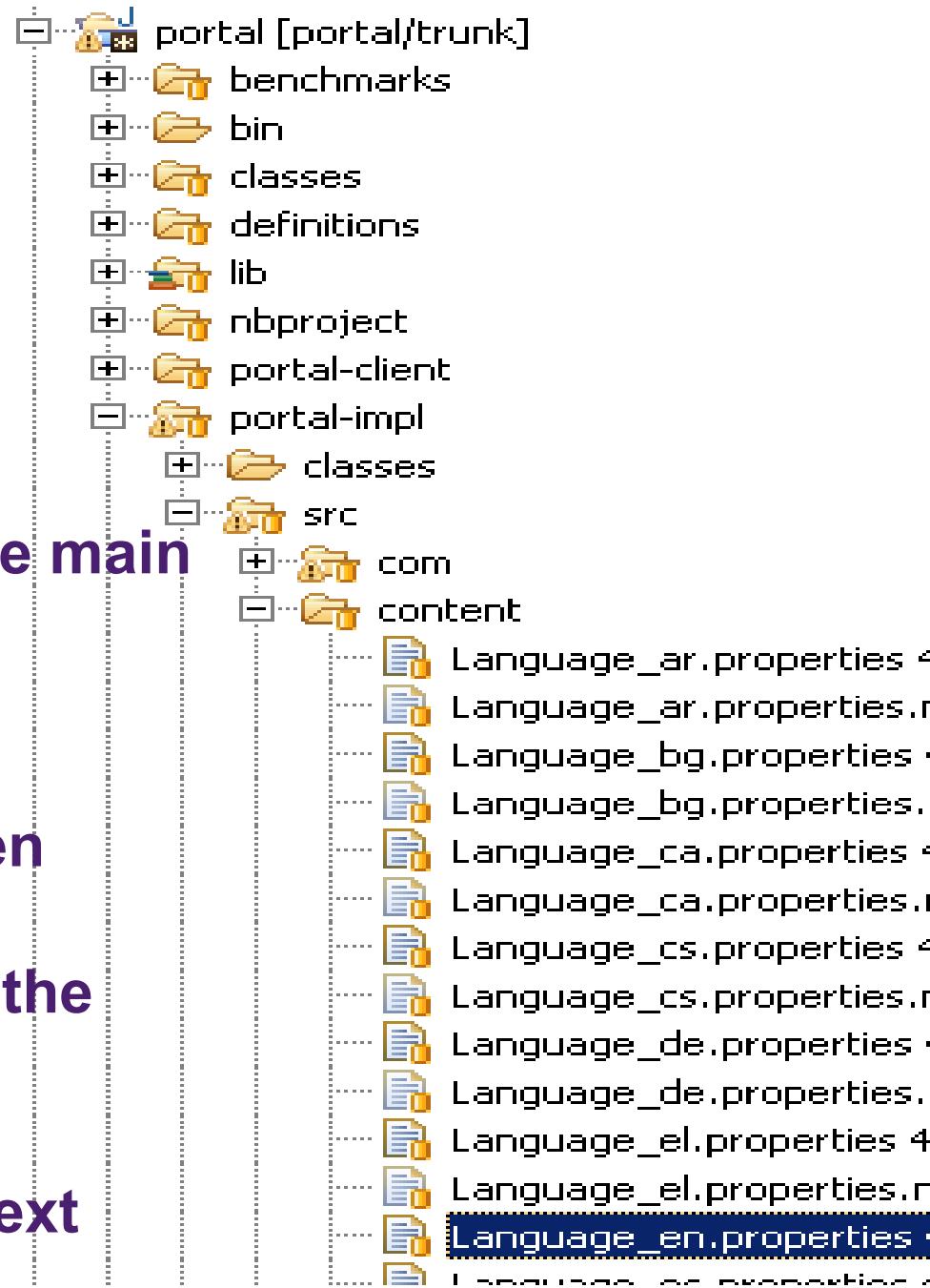
Customize International Messages

In the future always check the main file of portal messages

/portal/portal-
impl/src/content/Language_en

before you add a new line to the

/ext/ext-
impl/src/content/Language_ext





Liferay Ext Setup Summary

- **What did we do first?**
- **Next?**
- **Next?**



Liferay Setup Summary

- **What we did first?**
 - Liferay-Tomcat bundle install
- **Next?**
 - MySQL and Tools
- **Next?**
 - EXT Environment