Liferay Portal

zcke0728@hotmail.com

So many open source projects. Why not open your documents and share your experiences?
<table>
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<th>Log</th>
<th><a href="http://www.blogs4u.net/eammi/">http://www.blogs4u.net/eammi/</a></th>
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Liferay Portal

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Liferay Portal
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Liferay Portal

- Portal
- MyNetscape
- MyYahoo
- MSN-Space
- Liferay Portal
- Portal
- Hibernate
- Struts
- Spring
- JCP JSR168
- Portlet

- Liferay Portal
- Hibernate
- Struts
- Spring
- JCP JSR168
- Portlet
1.1.1 JSR168

JSR168 (Java Specification Request) Portal Specification V1.0

1.1.2 WSRP

WSRP OASIS Web Service for Remote Portlet Portal

HTML XHTML
Portal

1.2.1 Portal

1.2.2 Portlet
Liferay Portal

Portlet Portal Servlet

1.3.1 Portlet

Portlet Servlet WebPortlet Servlet

1.3.2 Portlet Servlet

Portlet Servlet

Servlet

Request/Response

Portlet Servlet
Liferay Portal

Portlet [] [] [] [] Servlet [] [] []
@Portlet [] [] [] [] [] [] [] [] [] [] portal server [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] 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1.4.1 Portlet

1.4.1-1

1.4.1-2
1.4.2 Portal

Portlet A

Portlet B

Portlet C

1.4.2-1

Portal:

Portal URL:
Liferay Portal

Liferay Portal Professional  Enterprise
J2EE  Pro  Servlet  Liferay Portal Ent  EJB
Pro  Tomcat / Jetty / Resin  Web  Struts  Web
Enterprise  JBoss  Web  Spring  EJB
Liferay Portal  HSQL
Liferay Portal Pro  Tomcat V5  Liferay
Liferay Portal Pro (Tomcat  Liferay)
Liferay Portal

Liferay Portal Pro  Tomcat V5  JAVA_HOME

http://www.liferay.com/web/guest/downloads/portal_pro  zip

{PORTAL_HOME}/bin/startup.bat

http://localhost

Login  test@liferay.com  test  Portal  Demo

2.1-1
2.1-2

```
Tomcat 
Liferay Portal 
HSQL 
```

```
My Account” “ Display” Language
```

```
Chinese(China)” Portal
```

2.2.1

```
Liferay Portal Portlet Portlet
```

```
Portlet Portlet Portlet
```

```
CMS” Portlet
```

```
Portlet Portlet
```
2.2.2 系统管理

- 公司
- Portlets
- 服务器
- 用户
- 用户组
- 角色

2.2.3 系统管理

- 2.2.1-1
- 2.2.1-2
### 新增用户

<table>
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<tr>
<th>名字</th>
<th>educhina</th>
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<tr>
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<td>earnoi</td>
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<tr>
<td>用户标识</td>
<td>educhina</td>
</tr>
<tr>
<td>自动生成用户标识</td>
<td>□</td>
</tr>
<tr>
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<td><a href="mailto:earnoi@103.com">earnoi@103.com</a></td>
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<tr>
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<td>自动生成密码</td>
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<td>需要重置密码</td>
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</tr>
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<td>一月</td>
</tr>
<tr>
<td>性别</td>
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- □ 2.2.3-1

您成功地增加一名用户。

### 编辑用户

输入名称或从列表中选择：

- John Wayne
- Test Mail
- educhina earnoi

- □ 2.2.3-2
### 系统管理

公司 - Portlets - 服务器 | 用户 - 用户组 - 角色

<table>
<thead>
<tr>
<th>当前</th>
<th>可用</th>
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编辑用户的角色: educhina@camoi

### 问题

- 2.2.3-3

### 系统管理

公司 - Portlets - 服务器 | 用户 - 用户组 - 角色

- 显示

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<td>状态</td>
<td>Never</td>
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<tr>
<td>姓名</td>
<td>camoi</td>
</tr>
<tr>
<td>电邮</td>
<td><a href="mailto:educhina@163.com">educhina@163.com</a></td>
</tr>
<tr>
<td>生日</td>
<td>1984</td>
</tr>
</tbody>
</table>

### 问题

- 2.2.3-4
2.2.3-5

2.2.4

2.2.4-1
### 2.2.5 Liferay Portal

```
... ...
```

### 2.2.6 Liferay Portal

```
... ...
```

---

**Possible Table and Diagram**

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#### 2.2.6-1

![Diagram of user group and roles]

#### 2.2.6-2

![Diagram of user group and roles]

---

**Selected User:** educhina.eamoi <eamoi@163.com>
2.2.6-3

2.2.6-4

2.2.7
2.2.8

2.2.9

2.2.9-1

2.2.9-1-1

当前

可用

编排角色的用户组：Guest
2.2.9-2 选中了的用户：educhna eamoi <eamoi@163.com>

2.2.10 Portlet
### 系统管理

公司 - Portlets - 服务器 | 用户 - 用户组 - 角色

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<th>必需的角色</th>
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<tbody>
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<td>活跃</td>
<td>否</td>
<td>Power User, User</td>
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<tr>
<td>Google</td>
<td>编辑</td>
<td>活跃</td>
<td>否</td>
<td>Power User, User</td>
</tr>
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<td>编辑</td>
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<td>否</td>
<td>Power User, User</td>
</tr>
<tr>
<td>Hello World</td>
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<td>活跃</td>
<td>否</td>
<td>Power User, User</td>
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<tr>
<td>Iframe</td>
<td>编辑</td>
<td>活跃</td>
<td>否</td>
<td>Guest, Power User, User</td>
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<tr>
<td>Portlet Aggregator</td>
<td>编辑</td>
<td>活跃</td>
<td>否</td>
<td>Guest, Power User, User</td>
</tr>
<tr>
<td>Portlet Aggregator</td>
<td>编辑</td>
<td>活跃</td>
<td>否</td>
<td>Power User, User</td>
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<td>活跃</td>
<td>否</td>
<td>Power User, User</td>
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<td>活跃</td>
<td>否</td>
<td>Power User, User</td>
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<td>活跃</td>
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<td>Power User, User</td>
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<td>活跃</td>
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<td>否</td>
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2.2.10-1

Portlet 2.2.10-2

Portlet 2.2.3

2.2.10 - 2

23
2.3.1  Liferay Portal

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</thead>
<tbody>
<tr>
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<td>Struts</td>
<td>Tiles</td>
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```

2.3.1-2

```
2.3. 1-3

Liferay Portal

2.3. 1-4
2.3.3 Portlet

日历

2.3.3-1

内容和布局

名称：Home A1

增加内容和修改它被显示在页的地方。

类

CMS

社区

请选择一个类别。

2.3.2-2

内容和布局

编辑页面：桌面 » Home A1

修改布局：处理孩子

增加儿童页。

新页名字：

种类：Portlet

设置儿童页显示宽度：

更新显示宽度
Liferay Portal

2.3.3-3

“Portal”

2.3.3-4

Portal Portlet Portlet Portlet

2.3.4

Liferay Portal Portlet Liferay Portal “Portal”

2.4.1

Portal Portlet

Portlet Portlet Portlet Portlet Portlet Portlet

Portlet Portlet Portlet Portlet Portlet Portlet

Portlet Portlet Portlet Portlet Portlet

Portlet Portlet

Portlet Portlet
2.4.2

Liferay Portal
2.5.1 Liferay Portal

- Liferay Portal
- Portlet
- Portlet CSS

Liferay Portal

2.5.2 Portlet Portal

Portlet Portal
Portlet Portal
Portal Portal
Portal Portal
Portlet Portal
Portal Portal
Portlet Portal
Portal Portal

2.5.3 Portal

Portal Portal
Liferay Portal

2.5.3-1

Liferay Portal

Web.xml

http://java.sun.com/dtd/web-app_2_3.dtd

<listener>
   <listener-class>com.liferay.portal.servlet.PortletContextListener</listener-class>
</listener>

Portlet Servlet
<servlet>
  <servlet-name>yourPortlet</servlet-name>
  <servlet-class>com.liferay.portal.servlet.PortletServlet</servlet-class>
  <init-param>
    <param-name>portlet-class</param-name>
    <param-value>full.name.of.yourPortlet</param-value>
  </init-param>
  <load-on-startup>0</load-on-startup>
</servlet>

<servlet-mapping>
  <servlet-name>yourPortlet</servlet-name>
  <url-pattern>/yourPortlet/*</url-pattern>
</servlet-mapping>

<taglib>
  <taglib-uri>http://java.sun.com/Portlet</taglib-uri>
  <taglib-location>/WEB-INF/tld/liferay-portlet.tld</taglib-location>
</taglib>

2.6.2  portlet.xml

portlet.xml Portlet Portlet Portlet Portlet Portlet resource bundle
portlet-name display-name portlet-class init-param expiration-cache
supports portlet-info security-role-ref Portlet Portlet

display-name Portlet Portlet Portlet Portlet Portlet
portlet-class Portlet Portlet Portlet Portlet Portlet
javax.Portlet.GenericPortlet

init-param[]<name>view-jsp</name><value>/view.jsp</value>

expiration-cache=0 Portlet supports[]<mime-type>text/html</mime-type>

http://java.sun.com/xml/ns/Portlet/Portlet-app_1_0.xsd

Web Portlet.xml

http://www.liferay.com/dtd/liferay-Portlet-app_3_5_0.dtd
liferay-portlet.xml

2.6.4 liferay-display.xml

Liferay-display.xml

http://www.liferay.com/dtd/liferay-display_3_5_0.dtd

liferay-portlet.xml

Liferay Portal
2.6.5 liferay-layout-templates.xml

```xml
<layout-templates>
  <layout-template id="1_column" name="1 Column">
    <template-path>/html/layouttpl/1_column.tpl</template-path>
  </layout-template>
  <layout-template id="2_columns_i" name="2 Columns (50/50)">
    <template-path>/html/layouttpl/2_columns_i.tpl</template-path>
  </layout-template>
  <layout-template id="3_columns" name="3 Columns">
    <template-path>/html/layouttpl/3_columns.tpl</template-path>
  </layout-template>
  <layout-template id="1_2_1_columns" name="1-2-1 Columns">
    <template-path>/html/layouttpl/1_2_1_columns.tpl</template-path>
  </layout-template>
</layout-templates>
```

2.6.7 liferay-look-and-feel.xml

```xml
<layout-templates>
  <layout-template id="1_column" name="1 Column">
    <template-path>/html/layouttpl/1_column.tpl</template-path>
  </layout-template>
  <layout-template id="2_columns_i" name="2 Columns (50/50)">
    <template-path>/html/layouttpl/2_columns_i.tpl</template-path>
  </layout-template>
  <layout-template id="3_columns" name="3 Columns">
    <template-path>/html/layouttpl/3_columns.tpl</template-path>
  </layout-template>
  <layout-template id="1_2_1_columns" name="1-2-1 Columns">
    <template-path>/html/layouttpl/1_2_1_columns.tpl</template-path>
  </layout-template>
</layout-templates>
```
Liferay Portal

Portlet

GenericPortlet

public Init()

public Init(PortletConfig)

public getInitParameter(String)

public getInitParameterNames()

public getPortletConfig()

public getPortletContext()

public getPortletName()

public getResourceBundle(Locale)

protected getTitle(RenderRequest)

protected doView(RenderRequest, RenderResponse)

protected doEdit(RenderRequest, RenderResponse)

protected doHelp(RenderRequest, RenderResponse)

protected doDispatch(RenderRequest, RenderResponse)

protected processAction(RenderRequest, RenderResponse)

protected render(RenderRequest, RenderResponse)

public destroy()

Portlet

Servlet

JSP

PrintWriter

PrintWriter pw = renderResponse.getWriter();
pw.println("Hello world!");

36
Portlet

```
String jspName = getPortletConfig().getInitParameter("jspView");
```

### 3.2.1 defineObjects

```
<portlet:defineObjects/>
```

### 3.2.2 renderURL

```
windowState | String | minimized normal maximized |
portletMode | String | view edit help |
var | String |
secure | String | true false |

<portlet:renderURL portletMode="view" windowState="maximized">
  <portlet:param name="number" value="1"/>
  <portlet:param name="page" value="2"/>
</portlet:renderURL>
```
3.2.3  actionURL

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>windowState</td>
<td>String</td>
<td>minimized normal maximized</td>
</tr>
<tr>
<td>portletMode</td>
<td>String</td>
<td>view [] edit [] help</td>
</tr>
<tr>
<td>var</td>
<td>String</td>
<td>true     false</td>
</tr>
</tbody>
</table>

```xml
<portlet:actionURL windowState="normal" PortletMode="edit">
    <portlet:param name="action" value="login"/>
</portlet:actionURL>
```

3.2.4  param

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>renderURL</td>
<td>actionURL actionURL form action param</td>
<td></td>
</tr>
<tr>
<td>body</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3.2.5  namespace

```xml
{PORTAL_HOME}/liferay/WEB-INF/tld/liferay-portlet.tld
```

### Portal

JSR168 Portal Portlet Portlet Portlet Portlet Portlet Portlet Portlet Portlet Portlet portal.jar

3.3.1 Request

Portlet Request Servlet Request Action Request Render Request Render Request ActionRequest ProcessAction ActionResponse response Render(RenderRequest request RenderResponse response) request service doView doEdit doHelp doGet doPost

```java
<%= pu.toString() %>
```

```java
PortletURL pu = renderResponse.createActionURL();
pu.setParameter("ACTION", "LOGIN");
<form name="usrform" method="post" action="<%= pu.toString() %>">
```
```java
<%>
PortletURL pu=renderResponse.createRenderURL();
Pu.setParameter("PAGE" Number);
<%>
<a href="<%=pu%>">
</a>
```

```java
public class ProcessAction{
  public void processAction(ActionRequest req[], ActionResponse res){
    String str = req.getParameter("ACTION");
    //response.setRenderParameter("ACTION" action);
  }
  public void doView(ActionRequest req[], ActionResponse res){
    String str = req.getParameter("ACTION");
  }
}
```

3.3.2  Response

```java
Request Response RenderResponse ActionResponse
```

```java
Portlet RenderRequest ActionRequest RenderRequest ActionRequest
```

```java
PortletResponse setProperty getPorperty
```
3.3.3 PortletConfig

- ServletConfig
- PortletContext
- Resource Bundle

3.3.4 Session
PortletSession

- APPLICATION_SCOPE
- PORTLET_SCOPE
  - getAttribute(String)
  - getAttribute(String, int)
  - getAttributeNames()
  - getAttributeNames(int)
  - getId()
  - getLast AccessedTime()
  - getMax inactiveInterval()
  - getPortletContext()
  - invalidate()
  - isNew()
  - removeAttribute(String)
  - removeAttribute(String, int)
  - setAttribute(String, Object)
  - setAttribute(String, Object, int)
  - setMax inactiveInterval(int)

3.3.4-1

Portlet Portal HttpSession Portlet Web Session Scope Session[]

```<portlet:actionURL windowState="NORMAL" portletMode="view" var="pu1">
  <portlet:param name="ACTION" value="ApplicationScope"/>
</portlet:actionURL>

<portlet:actionURL windowState="NORMAL" portletMode="view" var="pu2">
  <portlet:param name="ACTION" value="PortletScope"/>
</portlet:actionURL>
```

JSP ActionURL PortletSession

PortletSession ps = req.getPortletSession();
if(ps.getAttribute("PortletSession.AS"[APPLICATION_SCOPE])!=null){
    app=ps.getAttribute("PortletSession.AS"[APPLICATION_SCOPE]).toString();
}
if(ps.getAttribute("PortletSession.PS"[PORTLET_SCOPE])!=null){
    Portlet=ps.getAttribute("PortletSession.PS"[PORTLET_SCOPE]).toString();
}
HttpSession se = request.getSession();
if(se.getAttribute("PortletSession.AS")!=null){
    app=se.getAttribute("PortletSession.AS");
}

3.3.5 Preference

Preference

PortletPreferences

PortletPreference p= req.getPortletPreferences();
p.setValue("educhina.username", "educhina");
p.store();

Portlet.xml

<portlet-preferences>
    <preference>
        <name>educhina.username</name>
        <value>educhina</value>
        <read-only>true</read-only>
    </preference>
</portlet-preferences>

PreferencesValidator
Liferay Portal

Preference "preferenceType"

Portlet

Liferay Portal 78 Portlet 78 PrintWriter 78 JSP 78 Servlet 78 PrintWriter 78 JSP 78 Web Service 78

3.4.1

IDE Eclipse V3.0.1
JDK V1.4.2_06
ANT V1.6.2
Tomcat V5.0 Liferay Portal
Liferay Portal liferay-portal-pro-3.6.0-tomcat

3.4.2

JDK V1.4.2_06 JAVA_HOME JDK
ANT_HOME ANT
Eclipse V3.0.1.
D:\TestPortal\liferay-portal-pro-3.6.0-tomcat.zip
D:\TestPortal\liferay-portal-pro-3.6.0-tomcat.jar
D:\TestPortal\webapp\WEB-INF\deploy\bakhappy\WEB-INF\classes

<?xml version="1.0"?>
<!DOCTYPE web-app PUBLIC "/Sun Microsystems, Inc./DTD Web Application 2.3//EN" "http://java.sun.com/dtd/web-app_2_3.dtd">
<web-app>
  <display-name>TestPortal</display-name>
</web-app>

D:\TestPortal\webapp\WEB-INF\tl��\PORTAL_HOME\liferay\WEB-INF\tl��\PORTAL_HOME\liferay\WEB-INF\tl牌照liferay-portlet.tld
Eclipse V3.0.1.
JAVA_HOME JDK V1.4.2_06
ANT_HOME ANT
Eclipse V3.0.1.
D:\TestPortal\liferay-portal-pro-3.6.0-tomcat.zip
D:\TestPortal\liferay-portal-pro-3.6.0-tomcat.jar
D:\TestPortal\webapp\WEB-INF\classes

<?xml version="1.0"?>
<!DOCTYPE web-app PUBLIC "/Sun Microsystems, Inc./DTD Web Application 2.3//EN" "http://java.sun.com/dtd/web-app_2_3.dtd">
<web-app>
  <display-name>TestPortal</display-name>
</web-app>

D:\TestPortal\webapp\WEB-INF\tl牌照\PORTAL_HOME\liferay\WEB-INF\tl牌照liferay-portlet.tld
Eclipse V3.0.1.
JAVA_HOME JDK V1.4.2_06
ANT_HOME ANT
Eclipse V3.0.1.
D:\TestPortal\liferay-portal-pro-3.6.0-tomcat.zip
D:\TestPortal\liferay-portal-pro-3.6.0-tomcat.jar
D:\TestPortal\webapp\WEB-INF\classes

<?xml version="1.0"?>
<!DOCTYPE web-app PUBLIC "/Sun Microsystems, Inc./DTD Web Application 2.3//EN" "http://java.sun.com/dtd/web-app_2_3.dtd">
<web-app>
  <display-name>TestPortal</display-name>
</web-app>

D:\TestPortal\webapp\WEB-INF\tl牌照\PORTAL_HOME\liferay\WEB-INF\tl牌照liferay-portlet.tld
Eclipse V3.0.1.
JAVA_HOME JDK V1.4.2_06
ANT_HOME ANT
Eclipse V3.0.1.
D:\TestPortal\liferay-portal-pro-3.6.0-tomcat.zip
D:\TestPortal\liferay-portal-pro-3.6.0-tomcat.jar
D:\TestPortal\webapp\WEB-INF\classes

<?xml version="1.0"?>
<!DOCTYPE web-app PUBLIC "/Sun Microsystems, Inc./DTD Web Application 2.3//EN" "http://java.sun.com/dtd/web-app_2_3.dtd">
<web-app>
  <display-name>TestPortal</display-name>
</web-app>

D:\TestPortal\webapp\WEB-INF\tl牌照\PORTAL_HOME\liferay\WEB-INF\tl牌照liferay-portlet.tld
Eclipse V3.0.1.
JAVA_HOME JDK V1.4.2_06
ANT_HOME ANT
Eclipse V3.0.1.
D:\TestPortal\liferay-portal-pro-3.6.0-tomcat.zip
D:\TestPortal\liferay-portal-pro-3.6.0-tomcat.jar
D:\TestPortal\webapp\WEB-INF\classes
3.4.3 HelloWorldPortlet

HelloWorldPortlet PrintWriter Portlet com.educhina.portal Java HelloWorldPortlet javax.portlet.GenericPortlet HelloWorldPortlet
```java
package com.educhina.portal;
import java.io.IOException;
import javax.Portlet.GenericPortlet;
import javax.Portlet.PortletException;
import javax.Portlet.RenderRequest;
import javax.Portlet.RenderResponse;

public class HelloWorldPortlet extends GenericPortlet {
    public void doView(RenderRequest req, RenderResponse res)
            throws IOException, PortletException {
            res.setContentType("text/html");
            res.getWriter().println("HelloWorld!");
        }

    public void doEdit(RenderRequest req, RenderResponse res)
            throws IOException, PortletException {
            res.setContentType("text/html");
            res.getWriter().println("HelloWorld!");
        }
}
```

3.4.4 HelloJSPPortlet

HelloJSPPortlet extends GenericPortlet

```java
HelloJSPPortlet bundle JSP hello.jsp
GenericPortlet bundle HelloJSPPortlet bundle getPortletConfig().getInitParameter("..")
Portlet bundle xml bundle view-jsp bundle edit-jsp bundle JSP bundle RenderResponse bundle
PortletRequestDispatcher bundle include bundle JSP bundle RenderResponse bundle
```
package com.educhina.portal;

import java.io.IOException;
import javax.portlet.PortletException;
import javax.portlet.GenericPortlet;
import javax.portlet.PortletRequestDispatcher;
import javax.portlet.RenderRequest;
import javax.portlet.RenderResponse;

public class HelloJSPPortlet extends GenericPortlet{
    public void doView(RenderRequest req, RenderResponse res)
        throws IOException, PortletException {
        res.setContentType("text/html");
        String jspName = getPortletConfig().getInitParameter("view-jsp");
        PortletRequestDispatcher rd = getPortletContext().getRequestDispatcher(jspName);
        rd.include(req, res);
    }
    public void doEdit(RenderRequest req, RenderResponse res)
        throws IOException, PortletException {
        res.setContentType("text/html");
        String jspName = getPortletConfig().getInitParameter("edit-jsp");
        PortletRequestDispatcher rd = getPortletContext().getRequestDispatcher(jspName);
        rd.include(req, res);
    }

    @{APP_HOME}/webapp/view.jsp  edit.jsp  view.jsp  edit.jsp

<table cellpadding="8" cellspacing="0" width="100%">
    <tr>
        <td>
            This is a <b>Sample JSP Portlet</b> used in viewing model[] Use this as a quick way to include JSPs[]
        </td>
    </tr>
</table>
renderRequest() portletConfig()
Liferay Portal

Servlet

Liferay Portal

Portlet

web.xml

Portlet

portlet.xml

portlet.xml

HelloWorldPortlet

HelloJSPPortlet

HelloWorldPortlet

HelloJSPPortlet

HelloWorldPortlet

portlet.xml

init

JSP

<portlet>

<portlet-name>HelloWorldPortlet</portlet-name>

<display-name>HelloWorldPortlet</display-name>

<portlet-class>com.educhina.portal.HelloWorldPortlet</portlet-class>

<expiration-cache>0</expiration-cache>

<supports>

<mime-type>text/html</mime-type>

</supports>

<supports>

<mime-type>text/html</mime-type>

</supports>

<Portlet-mode>edit</Portlet-mode>

</supports>

<portlet-info>

<title>HelloWorldPortlet</title>

<short-title>HelloWorldPortlet</short-title>

<keywords>HelloWorldPortlet</keywords>

</portlet-info>

<security-role-ref>

<role-name>user</role-name>

</security-role-ref>

<security-role-ref>

<role-name>guest</role-name>

</security-role-ref>

<security-role-ref>

<role-name>power-user</role-name>

</security-role-ref>

<security-role-ref>

<role-name>user</role-name>

</security-role-ref>

</portlet>
<portlet>
   <portlet-name>HelloJSPPortlet</portlet-name>
   <display-name>HelloJSPPortlet</display-name>
   <portlet-class>com.educhina.portal.HelloJSPPortlet</portlet-class>
   <init-param>
      <name>view-jsp</name>
      <value>/view.jsp</value>
   </init-param>
   <init-param>
      <name>edit-jsp</name>
      <value>/edit.jsp</value>
   </init-param>
   <expiration-cache>0</expiration-cache>
   <supports>
      <mime-type>text/html</mime-type>
   </supports>
   <supports>
      <mime-type>text/html</mime-type>
      <Portlet-mode>edit</Portlet-mode>
   </supports>
   <portlet-info>
      <title>HelloJSPPortlet</title>
      <short-title>HelloJSPPortlet</short-title>
      <keywords>HelloJSPPortlet</keywords>
   </portlet-info>
   <security-role-ref>
      <role-name>guest</role-name>
   </security-role-ref>
   <security-role-ref>
      <role-name>power-user</role-name>
   </security-role-ref>
   <security-role-ref>
      <role-name>user</role-name>
   </security-role-ref>
</portlet>

liferay-Portlet.xml

Liferay-Portlet.xml  HelloWorldPortlet  HelloJSPPortlet
<?xml version="1.0"?>
<!DOCTYPE liferay-Portlet-app PUBLIC "-//Liferay//DTD Portlet Application 3.5.0//EN" "http://www.liferay.com/dtd/liferay-Portlet-app_3_5_0.dtd">
<liferay-portlet-app>
    <portlet>
        <portlet-name>HelloWorldPortlet</portlet-name>
        <struts-path>HelloWorldPortlet</struts-path>
        <use-default-template>true</use-default-template>
        <instanceable>true</instanceable>
    </portlet>
    <portlet>
        <portlet-name>HelloJSPPortlet</portlet-name>
        <struts-path>HelloJSPPortlet</struts-path>
        <use-default-template>true</use-default-template>
        <instanceable>true</instanceable>
    </portlet>
    <role-mapper>
        <role-name>administrator</role-name>
        <role-link>Administrator</role-link>
    </role-mapper>
    <role-mapper>
        <role-name>guest</role-name>
        <role-link>Guest</role-link>
    </role-mapper>
    <role-mapper>
        <role-name>power-user</role-name>
        <role-link>Power User</role-link>
    </role-mapper>
    <role-mapper>
        <role-name>user</role-name>
        <role-link>User</role-link>
    </role-mapper>
</liferay-portlet-app>
<?xml version="1.0"?>
<!DOCTYPE display PUBLIC "-//Liferay//DTD Display 3.5.0//EN" "http://www.liferay.com/dtd/liferay-display_3_5_0.dtd">
<display>
  <category name="category.test">
    <portlet id="HelloWorldPortlet" />
    <portlet id="HelloJSPPortlet" />
  </category>
</display>
Liferay Portal

Portlet

Liferay Portal

Tomcat5.0
liferay-portal-pro-3.6.0-tomcat.zip
liferay Portal

War

TestPortal.war

TestPortal.xml

HelloWorldPortlet

HelloJSPPortlet

Portlet
Ant

Apache Ant

TestPortlet.war

http://prdownloads.sourceforge.net/lportal/Portlet-deployer-3.6.0.xml

Portlet-deployer-3.6.0.xml

JDK1.4.2

Tomcat

Liferay Portal

JBoss+Jetty

JBoss+Jetty

Tomcat

Liferay Portal

TestPortal

Liferay Portal

Liferay Portal
Java Web Portlet

<servlet>
  <servlet-name>yourPortlet</servlet-name>
  <servlet-class>com.liferay.portal.servlet.PortletServlet</servlet-class>
  <init-param>
    <param-name>portlet-class</param-name>
    <param-value>full.name.of.yourPortlet</param-value>
  </init-param>
  <load-on-startup>0</load-on-startup>
</servlet>

<servlet-mapping>
  <servlet-name>yourPortlet</servlet-name>
  <url-pattern>/yourPortlet/*</url-pattern>
</servlet-mapping>

Portlet.xml 2.6.1

<portlet>
  <portlet-name>HelloWorldPortlet</portlet-name>
  <portlet-type>javax.portlet.GenericPortlet</portlet-type>
  <display-name>HelloWorldPortlet</display-name>
  <description>Displays a simple greeting message</description>
  <primary-language>en</primary-language>
  <secondary-language>fr</secondary-language>
  <liferay-home>{PORTAL_HOME}\liferay\WEB-INF\portlet.xml</liferay-home>
  <liferay-display>{PORTAL_HOME}\liferay\WEB-INF\liferay-display.xml</liferay-display>
  <liferay-portlet>{PORTAL_HOME}\liferay\WEB-INF\liferay-portlet.xml</liferay-portlet>
  <liferay-display-portlet>{PORTAL_HOME}\liferay\WEB-INF\liferay-display-portlet.xml</liferay-display-portlet>
  <liferay-display-service>{PORTAL_HOME}\liferay\WEB-INF\liferay-display-service.xml</liferay-display-service>
  <liferay-display-webapp>{PORTAL_HOME}\liferay\WEB-INF\liferay-display-webapp.xml</liferay-display-webapp>
</portlet>
Liferay Portal

portlet.jar liferay-Portlet.tld portlet.jar Portlet API

servlet-api.jar {PORTAL_HOME}\common\lib\ext\liferay-portlet.tld Liferay Portal

Java Web Portlet
Liferay Portal

**Portlet Examples**

- Hello World
- IFrame
- Calendar
- Message Boards
- Mail
- Sample Portlet
- Sample Layout Template
- Sample Themes
- Sample JSP Portlet
- Sample Struts Portlet
- Sample JSF SUN Portlet
- Sample JSF MyFaces Portlet

**Documentation and Resources**

- Liferay Portal [http://www.liferay.cn](http://www.liferay.cn)
- Tracker [http://support.liferay.com](http://support.liferay.com)
Liferay Portal

JSP168 PORLET Liferay-Portal (JSR168) Liferay Portal V3.6.1
Portlet

http://www.liferay.com
http://www.liferay.cn

Terry Lee
Liferay Portal

Kevin
bug portal
Spring V1.0

PS