



Workbench Developer Documentation

version 1.0

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Company
logo

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???? ??

Summary: ??? ????? ?? ?????(Post-Processor)? ????? ?? ????? ?? ?
?? ??? ?? ???

EDISON ????? ?? ???(Post-Processor) ?? ??? ???.

Liferay 6.2.5 ??? ????? ?? ?? ??? ?? ?????? ?? ?? ?????.

Liferay 6.2 ?? ????? ??

?? ??? ??? ?????.

- [???? Neon 3 Release \(4.6.3\)](#)
- [liferay-portal-6.2-ce-ga6](#)
- [liferay-plugins-sdk-6.2](#)

1. Liferay plugin Project ??

???? ????? [Liferay Plugins Projects](#) ? ??????
???? ????? New -> Liferay Plugin Project? ??????

imagetestYejin

???? ??? ????? include sample code ??? ??????

imagetestYejin

???? ??? ????? Liferay MVC? ????? ?????? ??? ??? ???.

imagetestYejin

??? ??? ????? ?????? ??? ??? ?????? imagetestYejin

2. EDISON ????? ??? ?? Analyzer ??? ??

EDISON ????? ????? ??? ?? ????? ??????
??? Liferay Plugins Projects ?? Liferay Portlet? ??????

imagetestYejin

??? ?????, ?????? ????? ??? ??? ??????.

imagetestYejin

??? ??? ?? ?? ????? ????? ?????.

??? ??? ? ??? ??? Next? ??? ??????.

imagetestYejin

????? ????? ????? ?????.

??? ??? ? ??? ??? Next? ??? ??????.

imagetestYejin

??? ??? ??????? ??? Finish? ????? ??? ??? ??????.

imagetestYejin

3. ??? ??? ?? ??

EDISON ?????? ?????? ??? ????? ? ?????? ?? ??? ?????? ?? ??? ? ??? ???.

??? ??(?? ???)? ? ?????? ?????? ?????? ?????? ?? ??? ?????? ????. ????? ??? ??? ? ???.

liferay-portlet.xml ?? ??? ?? ??? ??????.

```
<add-default-resource>true</add-default-resource>
```

??? ??? ?? xml ?? ??? ??? ??? ? ?? ??? ??????.

imagetestYejin

4. ?? ????? ?? ??

?? Liferay Plugin Project?? ?????? ??? ?????? ??????.

3?? ?????? xml ??? ?????? ???, liferay-plugin-package.properties ??? ??????.

????? ?????? ?????? UI ?????? ?????? ??????. ?? ??? ??? ??????.

imagetestYejin

Portal Dependency Jars ????? Add...??? ??? ?, jstl ? ????? ??? jstl-api.jar, jstl-impl.jar?? ??? ??????.

imagetestYejin

5. ???? ??? ?? ???? ?? ??

???? ??? ?? ??? ??????? ?? ??? ???? ? WEB-INF/lib ? ??????. imagetestYejin

Note: ?? ??????? ??????.

[commons-beanutils.jar \(page 0\)](#)

[commons-collections.jar \(page 0\)](#)

[commons-exec-1.1.jar \(page 0\)](#)

[commons-fileupload.jar \(page 0\)](#)

[commons-io.jar \(page 0\)](#)

[commons-lang.jar \(page 0\)](#)

[SciencePlatform-hook-service.jar \(page 0\)](#)

???? ??

EDISON ???? ?? ???(Post-Processor) ?? ??? ???.

Liferay 6.2.5 ??? ????? ?? ?? ??? ?? ????? ?? ?? ???.

Java ?? ?? 1 (?? ??)

??? ?????? ??? ????? ?? ?? ? ?? ????? ?? ?? ?? ??? ?? ??? **MVCPortlet** ?
extends ?? ?? ? ? ?? ????? ?? **serveResource** ??? ????? ?? ??? ?? ??? ??? ?
 ??? ??? ????? ?????? ??? ?????? ?? ????? ?? ????? [SciencePlatform-hook-service.jar \(page 0\)](#) ?????? ?????? ?? ?? ??? ????? ??? ? ???.

```

@Override
public void serveResource(ResourceRequest resourceRequest, ResourceResponse resourceResponse)
    throws IOException, PortletException{
    String fileName = ParamUtil.getString(resourceRequest, "fileName");
    String parentPath = ParamUtil.getString(resourceRequest, "parentPath");
    Path filePath = Paths.get(parentPath).resolve(fileName);
    String command = ParamUtil.getString(resourceRequest, "command");
    String repositoryType = ParamUtil.getString(resourceRequest, "repositoryType", OSPRepositoryTypes.USER_JOBS.toString());

    if(command.equalsIgnoreCase("GET_FILE")){
        try{
            OSPFileUtil.getFile(resourceRequest, resourceResponse, filePath.toString(), repositoryType);
        }catch (PortalException | SystemException e){
            _log.error("[JSMOL] readFileContent(): " + filePath.toString());
            throw new PortletException();
        }
    }else if(command.equalsIgnoreCase("READ_IMAGE")){
        try{
            OSPFileUtil.getFile(resourceRequest, resourceResponse, filePath.toString(), repositoryType);
        }catch (PortalException | SystemException e){
            _log.error("[JSMOL] readFileContent(): " + filePath.toString());
            throw new PortletException();
        }
    }else if(command.equalsIgnoreCase("READ_FIRST_FILE")){
        try{
            OSPFileUtil.readFirstFileContent(resourceRequest, resourceResponse, parentPath, fileName, repositoryType);
        }catch (PortalException | SystemException e){
            _log.error("[JSMOL] readFileContent(): " + filePath.toString());
            throw new PortletException();
        }
    }else if(command.equalsIgnoreCase("GET_FIRST_FILE_NAME")){
        try{
            System.out.println("[JSMOL] test get firstFileName");
        }
    }
}

```



```

        OSPFileUtil.getFirstFileName(resourceRequest, resourceResponse, parentPath, fileName, repositoryType);
    }catch (PortalException | SystemException e){
        _log.error("[JSMOL] getFirstFileName(): " + filePath.toString());
        throw new PortletException();
    }
}
}else if(command.equalsIgnoreCase("DOWNLOAD_FILE")){
    try{
        OSPFileUtil.downloadFile(resourceRequest, resourceResponse, filePath.toString(), repositoryType);
    }catch (PortalException | SystemException e){
        _log.error("[JSMOL] checkValidFile(): " + filePath.toString());
        throw new PortletException();
    }
}
}else{
    _log.error("Un-known command: " + command);
    throw new PortletException();
}
}
}

```

Java ?? ?? 2 (???? ?? ??)

????? ??? ?? ??? ?? ??? ????? ?? ?? ??? ??????. ?????? ????? ?? ????? ????? ??????
 ??? ??? ? ?????? ????? ????? ?? ?????? ????? ??????. ?????? MVCPortlet ? extends
 ?? ?? ? ? ?? ????? ?? doView ??? ?????? ?? ???.

```
@Override
public void doView(RenderRequest renderRequest, RenderResponse
renderResponse) throws IOException, PortletException{
    boolean eventEnable = ParamUtil.getBoolean(renderRequest, "ev
entEnable", true);
    String inputData = ParamUtil.getString(renderRequest, "inputD
ata");
    String connector = ParamUtil.getString(renderRequest, "connec
tor", "connector");
    String mode = ParamUtil.getString(renderRequest, "mode", "VIE
W");

    renderRequest.setAttribute("eventEnable", eventEnable);
    renderRequest.setAttribute("inputData", inputData);
    renderRequest.setAttribute("connector", connector);
    renderRequest.setAttribute("mode", mode);

    super.doView(renderRequest, renderResponse);
}
```

???? java ?? ??? ??????. ?? ????? ????? ?? ? ?, ?? ??? ?? ?? ?? ????? ??
 ??? ??????. ????? ??? ?? ????? ??? ??? ??? ?? ????? ?? ????? ??? ?? ??? ????? ??
 ??? ?? ???.

?? ?? ??

??? ?? ?? ??? ????? ??? ??? ????? ?? ??? ??? ??? ?????.

```
private static Log _log =
LogFactoryUtil.getLog(TestAnalyzerPortlet.class);
?? ??? ?? ?? ?????, ??? ?? ??? ??? ?? ?? ??? ?( TestAnalyzerPortlet.class )?
?????.
```

Java ?? ????? ??

?? ??? ?? ?? ?? ????? ???????, ??????? ?? ????? import ?? ??.

???? ??? ??????? ??? ??? ??? ?? ?????? ??? ??? ????? ???.

```
import java.io.IOException;
import java.nio.file.Path;
import java.nio.file.Paths;

import javax.portlet.PortletException;
import javax.portlet.RenderRequest;
import javax.portlet.RenderResponse;
import javax.portlet.ResourceRequest;
import javax.portlet.ResourceResponse;

import com.kisti.osp.constants.OSPRepositoryTypes;
import com.kisti.osp.service.FileManagementLocalServiceUtil;
import com.kisti.osp.util.OSPFileUtil;
import com.liferay.portal.kernel.exception.PortalException;
import com.liferay.portal.kernel.exception.SystemException;
import com.liferay.portal.kernel.log.Log;
import com.liferay.portal.kernel.log.LogFactoryUtil;
import com.liferay.portal.kernel.util.ParamUtil;
import com.liferay.util.bridges.mvc.MVCPortlet;
```

???? ? ? ?

??? ????? ??? ?? ????? ????? ??? ?? ????????. ????? ?? ??? ??? ????? ????? ??? ??
? ????? ?? ??? ???.

??? ? ??? ???? ??? ??? ???? , ?? ? ???? ??? ?? ?? ???? ???? . ??? ?? ?? ???? ??
?? ???? ???? ??? ????? ???? .

```
init.jsp ?? ?? ? ?? ??
```

```
??? ???? ? /html ?? ? init.jsp ??? ?????.
```

```
??? init.jsp ?? ? ? ??? ?? ?? ?????? ??? ????? ?????? ?? ????????? ??????.???? ?
? ??? ??? ?????.
```

```

<%@ taglib uri="http://java.sun.com/portlet_2_0" prefix="portlet" %>
<%@ taglib uri="http://alloy.liferay.com/tld/au" prefix="au" %>
<%@ taglib uri="http://liferay.com/tld/ui" prefix="liferay-ui" %>
<%@ taglib uri="http://liferay.com/tld/theme" prefix="theme" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@ taglib uri="http://liferay.com/tld/security" prefix="liferay-security" %>
<%@ taglib uri="http://liferay.com/tld/portlet" prefix="liferay-portlet" %>

<%@ taglib uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/functions" prefix="fn" %>
<!-- JQuery -->
<script src="<%=request.getContextPath()%>/js/jquery/jquery-ui.min.js" ></script>
<script src="<%=request.getContextPath()%>/js/jquery/jquery.blockUI.js" ></script>
<link type="text/css" href="<%=request.getContextPath()%>/js/jquery/jquery/jquery-ui.css" rel="stylesheet" />

<link rel="stylesheet" type="text/css" href="<%=request.getContextPath()%>/css/main.css">
<link href="<%=request.getContextPath()%>/js/jquery/bootstrap-toggle.min.css" rel="stylesheet">
<script src="<%=request.getContextPath()%>/js/jquery/bootstrap-toggle.min.js"></script>

<!-- bootstrap -->
<link href="<%=request.getContextPath()%>/js/jquery/bootstrap.min.css" rel="stylesheet">
<script src="<%=request.getContextPath()%>/js/jquery/bootstrap.min.js"></script>

<portlet:defineObjects />
<theme:defineObjects />

```

???? ?????:

jqueryxxx.min.js ?? (???? ????? ??) ????? ?????? ??? ?? ????? ??????? ????? ?? ? ?
 ??? .??? jquery ?????? ??? ????? ?????? ??? **init.jsp** ??? ????? ??? ?????? ???
 JQuery ?????? ????? ?????? ??? ?????? ??? ? ?????.

???? ??? ?? CSS ??

main.css ????? **osp-analyzer.css (page 0)**??? ??????.

```
@import url("./osp-analyzer.css");
```

osp-analyzer.css ??? **main.css** ??? ?? ??(**/css**)?? ??????. **osp-**
analyzer.css ??? ??? ??? ?????.

```
.osp-analyzer {
    border:none;
    height: 100%;
    min-height:800px;
    margin: 0;
}

.osp-analyzer .header{
    height: 40px;
    margin:10px 5px 10px 5px;
}

.osp-analyzer .header [class*="col-"]{
    padding-left: 0;
    padding-right: 0;
}

.osp-analyzer .no-header-frame{
    vertical-align:middle;
    border:none;
    height: 100%;
}

.osp-analyzer .frame{
    vertical-align:middle;
    border:none;
    height: 90%;
}

.osp-analyzer .canvas {
    border:none;
    height:100%;
    margin:0;
    padding:0;

    overflow:auto;
}

.osp-analyzer .iframe-canvas {
    border:none;
    height:100%;
    margin:0;
    padding:0;

    overflow:hidden;
}

.osp-analyzer .icon-menu {
    font-size: 15px;
    color: #5cb2d7;
    border: 2px solid;
```

```
border-radius: 3px;
padding-left: 2px;
padding-right: 3px;
vertical-align: middle;
}

.osp-analyzer .hidden {
    display: none;
}
```

jsp ?? ?? ??? ??? ??

```
?? ???? ??? ?? ??? ??? ?? jsp ??(testview.jsp)? ?? ???? ??? ?????? ?????? ????
????? ???? ??? jsp ??(loadAnalyzer.jsp)? ???? ? ???? ???? ?????. ???? ??? ???
? ??? portlet.xml ???? ??? ? ?????? ????. ??? ??? ?? jsp ??? ????? ??? ?? jsp
????? ??? ??? ???.
```

```
??? ??? ?? jsp ??? ??? testview.jsp? ??, portlet.xml ??? ??? ??? ???.
```

```
<init-param>
    <name>view-template</name>
    <value>/html/testanalyzer/testview.jsp</value>
</init-param>
```

???? ???? ?? ?? ????? ???? ???? ?????.


```

|AnalyzerExample-portlet/
|docroot/
|css/
|main.css
|osp-analyzer.css
|html/
|testanalyzer/
|testview.jsp
|loadAnalyzer.jsp
|js/
|main.js
|META-INF/
|MANIFEST.MF
|WEB-INF/
|lib/
|commons-beanutils.jar
|commons-collections.jar
|commons-exec-1.1.jar
|commons-fileupload.jar
|commons-io.jar
|commons-lang.jar
|SciencePlatform-hook-service.jar
|tlb/
|liferay-display.xml
|liferay-plugin-package.properties
|liferay-portlet.xml
|portlet.xml
|web.xml

```

??? ??? ??? ? ?? ?? ??? ????? ??? ????? ?? ??? ??? ????? ??? ??? ?????.

?????

??? ?????? ??? ?? ?????? ????? ??? ?? ??????????. ????? ?? ??? ??? ????? ????? ??? ??
? ?????? ?? ??? ???.

??? ? ??? ????? ??? ??? ?????, ?? ? ????? ??? ?? ?? ????? ??????. ??? ?? ?? ????? ??
?? ????? ????? ??? ?????? ??????.

`init.jsp` ?? ?? ? ?? ??

??? ????? ? `/html` ?? ? `init.jsp` ??? ??????.

??? `init.jsp` ?? ? ? ??? ?? ?? ?????? ??? ?????? ?????? ?? ????????? ??????. ????? ?
? ??? ??? ?????.

```
<%@ taglib uri="http://java.sun.com/portlet_2_0" prefix="portlet" %>
<%@ taglib uri="http://alloy.liferay.com/tld/au" prefix="au" %>
<%@ taglib uri="http://liferay.com/tld/ui" prefix="liferay-ui" %>
<%@ taglib uri="http://liferay.com/tld/theme" prefix="theme" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@ taglib uri="http://liferay.com/tld/security" prefix="liferay-security" %>
<%@ taglib uri="http://liferay.com/tld/portlet" prefix="liferay-portlet" %>

<%@ taglib uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/functions" prefix="fn" %>
<!-- JQuery -->
<script src="<%=request.getContextPath()%>/js/jquery/jquery-ui.min.js" ></script>
<script src="<%=request.getContextPath()%>/js/jquery/jquery.blockUI.js" ></script>
<link type="text/css" href="<%=request.getContextPath()%>/js/jquery/jquery/jquery-ui.css" rel="stylesheet" />

<link rel="stylesheet" type="text/css" href="<%=request.getContextPath()%>/css/main.css">
<link href="<%=request.getContextPath()%>/js/jquery/bootstrap-toggle.min.css" rel="stylesheet">
<script src="<%=request.getContextPath()%>/js/jquery/bootstrap-toggle.min.js"></script>

<!-- bootstrap -->
<link href="<%=request.getContextPath()%>/js/jquery/bootstrap.min.css" rel="stylesheet">
<script src="<%=request.getContextPath()%>/js/jquery/bootstrap.min.js"></script>

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

???? ?????:

jqueryxxx.min.js ?? (???? ???? ??) ???? ????? ???? ?? ???? ??????? ???? ?? ? ?
 ??? .??? jquery ????? ???? ???? ???? ???? **init.jsp** ??? ???? ???? ???? . ???
 JQuery ????? ???? ???? ???? ?????? ???? ? ????.

???? ??? ?? CSS ??

main.css ???? **osp-analyzer.css (page 0)**??? ?????.

```
@import url("../osp-analyzer.css");
```

osp-analyzer.css ??? **main.css** ??? ?? ??(**/css**)?? ??????. **osp-**
analyzer.css ??? ??? ??? ????.

```
.osp-analyzer {
    border:none;
    height: 100%;
    min-height:800px;
    margin: 0;
}

.osp-analyzer .header{
    height: 40px;
    margin:10px 5px 10px 5px;
}

.osp-analyzer .header [class*="col-"]{
    padding-left: 0;
    padding-right: 0;
}

.osp-analyzer .no-header-frame{
    vertical-align:middle;
    border:none;
    height: 100%;
}

.osp-analyzer .frame{
    vertical-align:middle;
    border:none;
    height: 90%;
}

.osp-analyzer .canvas {
    border:none;
    height:100%;
    margin:0;
    padding:0;

    overflow:auto;
}

.osp-analyzer .iframe-canvas {
    border:none;
    height:100%;
    margin:0;
    padding:0;

    overflow:hidden;
}

.osp-analyzer .icon-menu {
    font-size: 15px;
    color: #5cb2d7;
    border: 2px solid;
```

```
border-radius: 3px;
padding-left: 2px;
padding-right: 3px;
vertical-align: middle;
}

.osp-analyzer .hidden {
    display: none;
}
```

jsp ?? ?? ??? ??? ??

?? ??? ???? ???? ???? ???? jsp ??(testview.jsp)? ?? ???? ???? ???? ???? ????
 ???? ???? ???? jsp ??(loadAnalyzer.jsp)? ???? ? ???? ???? ???? ???? ???? ????
 ? ??? portlet.xml ???? ???? ? ???? ???? ???? ???? ???? jsp ??? ???? ???? ???? jsp
 ???? ???? ???? ????.

??? ??? ???? jsp ??? ???? testview.jsp? ???, portlet.xml ??? ??? ???? ????.

```
<init-param>
    <name>view-template</name>
    <value>/html/testanalyzer/testview.jsp</value>
</init-param>
```

???? ???? ???? ???? ???? ???? ???? ????.

```

|AnalyzerExample-portlet/
|docroot/
|css/
|main.css
|osp-analyzer.css
|html/
|testanalyzer/
|testview.jsp
|loadAnalyzer.jsp
|js/
|main.js
|META-INF/
|MANIFEST.MF
|WEB-INF/
|lib/
|commons-beanutils.jar
|commons-collections.jar
|commons-exec-1.1.jar
|commons-fileupload.jar
|commons-io.jar
|commons-lang.jar
|SciencePlatform-hook-service.jar
|tlb/
|liferay-display.xml
|liferay-plugin-package.properties
|liferay-portlet.xml
|portlet.xml
|web.xml

```

??? ??? ??? ? ?? ?? ??? ????? ??? ????? ?? ??? ??? ????? ??? ??? ?????.

???? ??? ? ??

EDISON ????? ??? ?? ?????? ????? ????? ?????? ?????? ??? ?????? ?? ? ?? ??
?? ?????.

??? ?? ? ?????? ??

??? ??? ?? ? ?? ???????? ????? ?? ?? ?? ????. `testview.jsp` ?? ??? ?? ?? ??? ??
????? ?? ??? ??????.

```
<%@page import="com.kisti.osp.constants.OSPRepositoryTypes"%>
<%@page import="com.liferay.portal.kernel.util.GetterUtil"%>
<%@page import="com.liferay.portal.util.PortaUtil"%>
<%@page import="com.liferay.portal.kernel.portlet.LiferayWindow
State"%>
<%@page import="javax.portlet.PortletPreferences"%>
<%@include file="../init.jsp"%>
```

????? URL ??

????? ??? ?? ??? ????? ?? URL? ??????.

??? ??? ?? Liferay ????? URL? resourceURL???

```
<portlet:resourceURL var="serveResourceURL"></portlet:resourceU
RL>
<portlet:renderURL var="renderURL">
  <portlet:param name="jspPage" value="/html/testanalyzer/tes
tview.jsp"/>
</portlet:renderURL>
```

?? ??? ??? ?? ?? ??

????? ????? ????? ?? ??? ?????? ?? ?? ?????. ??? ??? ?? ?????? ??? ? ??? ??? ?????
? ?????? ????? ??? ??? ?????? ????? ?? ????? ??????


```
<%
PortletPreferences preferences = portletDisplay.getPortletSetup();
preferences.setValue("portletSetupShowBorders", String.valueOf(
Boolean.FALSE));
preferences.store();

String inputData = GetterUtil.getString(renderRequest.getAttribute(
"inputData"), "{}");
String connector = (String)renderRequest.getAttribute("connector");
String mode = GetterUtil.getString(renderRequest.getAttribute(
"mode"), "VIEW");
boolean eventEnable = GetterUtil.getBoolean(renderRequest.getAttribute(
"eventEnable"), true);
%>
```

???

????? ???? ?? ??? ?? ????? ????? ??? ?? ?????? ????? ???, Liferay ??? ????? ?????
??????.

?? ?? ??? ????? ????? ????? ?? ?? ??? ?? ?????. Liferay ?? ????

Liferay.fire() ??? Liferay.on() ???? ??? ?????? ??????

- ?? ??

```
Liferay.on(
    OSP.Event.OSP_HANDSHAKE,
    function(e){
        var myId = '<%=portletDisplay.getI
d()%>';
        if( e.targetPortlet !== myId ){
            return
        }
        console.log('[NGLViewer]OSP_HANDSHAKE:
['+e.portletId+', '+new Date()+']');
        <portlet:namespace/>connector = e.portle
tId;

        if( e.mode )
            <portlet:namespace/>action = e.m
ode;
        else
            <portlet:namespace/>action = 'VI
EW';

        var events = [
            OSP.Event.OSP_EVENTS_REGISTERED,
            OSP.Event.OSP_LOAD_DATA
        ];
        var eventData = {
            portletId: myId,
            targetPortlet: <portlet:namespac
e/>connector,
            data: events
        };
        Liferay.fire( OSP.Event.OSP_REGISTER_EVENTS, event
Data );
    }
);
```

- **Liferay.fire()** : ???? ?????? Liferay ?????? ?????? ??????.
- **Liferay.on()** : ???? ??? ?? Liferay ?????? ?????? ??????.

?? ??? ??

?? ?? ??

????? ???? EDISON ?????? ??? ??? ??? ?? ??? 3?? ????. ?? ????? ?????? ??? ?? ?
?? ?? ?? ????, ?? ?? ????, ?? ?? ?????? ? ????. ??? ?? ??? ??? ?? ??? ??? ???
? ??? ??? ????? **iframe** ? ?? ????? ??????. ??? ?? ??? ?? ?????? ????? ?? **osp-**
analyzer.css (page 0)?? ????? ?? ????? ??????.

??? ?? ??? ????? ?? html ?? ??????.

```

<div class="container-fluid osp-analyzer">
  <div class="row-fluid header">
    <div class="col-sm-10" id="<portlet:namespace>
e/>title"></div>
    <div class="col-sm-2" >
      <div class="dropdown">
        <button class="btn btn-primary
dropdown-toggle" type="button" data-toggle="dropdown">
          Menu<span class="care
t"></span>
        </button>
        <!-- Link or button to toggle d
ropdown -->
        <ul class="dropdown-menu dropdo
wn-menu-right">
          <li><a href="javascrip
t:$('#<portlet:namespace>selectFile').click();"><i class="ico
n-folder-open"> Open local...</i></a></li>
          <li><a href="javascrip
t:<portlet:namespace>openFileExplorer();"><i class="icon-folde
r-open"> Open server...</i></a></li>
          <li><a href="javascrip
t:<portlet:namespace>downloadCurrentFile();"><i class="icon-do
wnload-alt"> Download</i></a></li>
        </ul>
      </div>
    </div>
  </div>
  <div class="row-fluid canvas" id="<portlet:namespace>c
anvasFrame">
    <iframe class="col-sm-12 iframe-canvas" id="<p
ortlet:namespace>canvas" src="<%=request.getContextPath()%>/h
tml/testanalyzer/loadAnalyzer.jsp" style="border:0">
    </iframe>
  </div>
</div>

```

?? ????? ??

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?? ??? ?? ????? ? ? ?? ?? ?? ????? ????? ??? ? ?? ??? ?? ????? EDISON ????? ???
 ???, ????? ?????? ????? ?? ??? ???? ??? OSPFileExplorerportlet ?? ???????
 ????? ????

```

<div id="<portlet:namespace/>hiddenSection" class="osp-analyze
r hidden">
    <div id="<portlet:namespace/>fileExplorer" class="pane
l panel-primary ui-draggable" style="padding:0px;margin-botto
m:0px;">
        <!-- title -->
        <div class="panel-heading">
            <button type="button" class="close" dat
a-dismiss="modal" aria-hidden="true" id='<portlet:namespace/>cl
oseDialog'>&times;</button>
            <h4>Select a File</h4>
        </div>

        <!-- content -->
        <div class="panel-body" id="<portlet:namespac
e/>file-explorer-content" style="height: 81%"></div>

        <!-- bottom -->
        <div class="panel-footer">
            <div class="ui-dialog-buttonset">
                <input class="btn btn-primary"
id="<portlet:namespace/>file-explorer-ok" type="button" valu
e="OK">
                <input class="btn" id="<portle
t:namespace/>file-explorer-cancel" type="button" value="Cance
l">
            </div>
        </div>

    </div>
    <input type="file" id="<portlet:namespace/>selectFil
e"/>
</div>

```

?? ?? ??? ??

- ?? ?? ?? ??

```

$('#<portlet:namespace/>selectFile').bind(
    'change',
    function(event){
        var input = document.getElementById('<portlet:n
amespace/>selectFile');
        var reader = new FileReader();

        reader.onload = function (e) {
            $('#<portlet:namespace/>canvas').each(f
unction(){
                $(this).prop('contentWindow').l
oadJSMolFile(e.target.result);
            });
            console.log("[JSMOL] local file test : ", inpu
t);
            console.log("[JSMOL] local file test2
: ", input.files[0]);

            <portlet:namespace/>setTitle(input.file
s[0].name);
        };

        reader.readAsDataURL(input.files[0]);
    }
);

```

- ?? ?? ?? ?? initializeFileExplorer ??? ?? ?? ??? ???? ???? ?? ???? ??
?? ??????.

```

function <portlet:namespace/>initializeFileExplorer(){
if( $.isEmptyObject(<portlet:namespace/>initData) ||(
    <portlet:namespace/>initData.type() !== OSP.Enumeration.PathT
ype.FILE &&
    <portlet:namespace/>initData.type() !== OSP.Enumeration.PathT
ype.FOLDER &&
    <portlet:namespace/>initData.type() !== OSP.Enumeration.PathT
ype.EXT ))      return;

var eventData = {
    portletId: '<%=portletDisplay.getId()%>',
    targetPortlet: <portlet:namespace/>fileExplorerId,
    data: OSP.Util.toJSON(<portlet:namespace/>initData)
};

Liferay.fire( 'OSP_LOAD_DATA', eventData );
}

```

openFileExplorer ??? ????? ?? ?? ?? ?? ???? ? , ????????? ?????? ??? ?? ????
 ??? ??? ????? ?? ????? ?? ?????.

```

function <portlet:namespace/>openFileExplorer(){
    AUI().use('liferay-portlet-url', function(A){
        if($("#<portlet:namespace/>file-explorer-content").children().length > 0){
            $<portlet:namespace/>fileExplorerDialog
Section.dialog("open");
        }else{
            var inputData;
            if(
mespace/>initData) && (
                <portlet:namespace/>initData.type() === OSP.Enumeration.PathType.FILE ||
                <portlet:namespace/>initData.type() === OSP.Enumeration.PathType.FOLDER ||
                <portlet:namespace/>initData.type() === OSP.Enumeration.PathType.EXT ){
                    inputData = <portlet:namespace/>initData;
                }
                else{
                    inputData = new OSP.InputData();
                    inputData.repositoryType( '<%=0
SPRepositoryTypes.USER_HOME.toString()%>' );
                    inputData.type( OSP.Enumeration.PathType.FOLDER );
                    inputData.parent('');
                    inputData.name('');
                }

                var dialogURL = Liferay.PortletURL.createRenderURL();
                dialogURL.setPortletId(<portlet:namespace/>fileExplorerId);
                dialogURL.setParameter('inputData', JSON.stringify(inputData));
                dialogURL.setParameter('mode', 'VIEW');
                dialogURL.setParameter('eventEnable', false);
                dialogURL.setParameter('connector', '<%=portletDisplay.getId()%>');
                dialogURL.setWindowState('<%=LiferayWindowState.EXCLUSIVE%>');

                $("#<portlet:namespace/>file-explorer-c

```



```

ontent").load( dialogURL.toString());
                                $<portlet:namespace/>fileExplorerDialog
Section.dialog("open");
    }
});
}

```

- ?? ?? ????? ?? ????? ?? ??? ????? ?? ?????.

```

function <portlet:namespace/>downloadCurrentFile(){
  console.log("[testView] Download current data", <portlet:namesp
ace/>currentData);
  if( $.isEmptyObject(<portlet:namespace/>currentData) ||
    <portlet:namespace/>currentData.type() !== OSP.Enumeration.Pa
thType.FILE )
    return;

  var filePath = <portlet:namespace/>currentData;
  var data = {
    <portlet:namespace/>command: "DOWNLOAD_FILE",
    <portlet:namespace/>pathType: filePath.type_,
    <portlet:namespace/>repositoryType: filePath.repositoryType_,
    <portlet:namespace/>parentPath: filePath.parent_,
    <portlet:namespace/>fileName: filePath.name_
  };

  var base = '<%=serveResourceURL.toString()%>';
  var sep = (base.indexOf('?') > -1) ? '&' : '?';
  var url = base + sep + $.param(data);

  location.href = url;
  <portlet:namespace/>loadXXXXFile( <portlet:namespace/>currentDa
ta );
}

```

???

???

```

????? ???? Liferay ?? ???? ??? ?? ? ?? ??(Liferay.on(), Liferay.fire())? ???? ?
???? ???? ??????. ?? ???? ??? ??? ?? ??? ?????? ??? ?? ??? ????? ?????? ???
??? ???,

```

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????	??
OSP.Event.OSP_HANDSHAKE	?? ?????? ?? ??? ?? ?? ?? ???? ?????? ?? ?? ? ?? ???
OSP.Event.OSP_Event_REGISTERED	?? OSP_HANDSHAKE? ?? ??? ?? ?? ?? ???
OSP.Event.OSP_LOAD_DATA	?? ??? ??? ?? ??? ?? ???
OSP.Event.OSP_RESPONSE_DATA	???? ?? ???????? ??? ??? ?? ?? ???
OSP.Event.OSP_REFRESH_OUTPUT_VIEW	??? ??? ??? ?? ???
OSP.Event.OSP_INITIALIZE	??????? ??? ??? ? ??? ?? ???

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OSP.Event.OSP_HANDSHAKE

```
?? ?????? ?????? ? ?????? OSP.Event.OSP_HANDSHAKE????? ??? ????. ??? ??????
????? ?????? ?????? ?????? OSP.Event.OSP_HANDSHAKE ?????? ??? ?? ????????? ?????? ?
?? ??????. ?? ?????? ? ? ???, OSP.Event.OSP_HANDSHAKE????? ?????? ?? ?????? ?
???? ??????? ??????? ??? ??????.
```

```

Liferay.on(
    OSP.Event.OSP_HANDSHAKE,
    function(e){
        var myId = '<%=portletDisplay.getId()%>';
        if( e.targetPortlet !== myId ){
            return
        }
        <portlet:namespace/>connector = e.portletId;

        if( e.mode )
            <portlet:namespace/>action = e.mode;
        else
            <portlet:namespace/>action = 'VIEW';
        var events = [
            OSP.Event.OSP_EVENTS_REGISTERED,
            OSP.Event.OSP_LOAD_DATA
        ];
        var eventData = {
            portletId: myId,
            targetPortlet: <portlet:namespace/>co
nector,
            data: events
        };

        Liferay.fire( OSP.Event.OSP_REGISTER_EVENTS, ev
entData );
    }
);

```

OSP.Event.OSP_Event_REGISTERED

OSP_HANDSHAKE ???? ??? ?? ??????. ???? ???? ???? ???? ??? ??? ???? ???.

```

Liferay.on(
    OSP.Event.OSP_EVENTS_REGISTERED,
    function(e){
        var myId = '<%=portletDisplay.getId()%>';
        if(e.targetPortlet === myId){
            console.log(' [TestView]Registered'+e.po
rtletId+' activated. '+new Date()+']');
        }
    }
);

```

OSP.Event.OSP_LOAD_DATA

???? ???? ?? ??????. ????? ???? ?? ?????? ????? ??, ?????? ?????? ?????? ???
 ??? ??? ?????? ?? ?? ????? ????? ?? ??? ?? ?? ???.

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 ???.

- `<portlet:namespace/>initialize(e.data);` ??? ?? ??? ?? ?? ?? ???
 ????? ????? ??????.
- `<portlet:namespace/>loadTestviewFile(<portlet:namespace/>initData.clone());`
 ??? ?? ????? ??? ????? ?? ?? ??????.
- `<portlet:namespace/>initializeFileExplorer();` ??? ?? ?? ??? ??
 ?? ????? ??? ?? ?????? ?? ??? ?? ??????.

```
Liferay.on(
    OSP.Event.OSP_LOAD_DATA,
    function(e){
        var myId = '<%=portletDisplay.getId()%>';
        if( e.targetPortlet !== myId )
            return;

        <portlet:namespace/>initialize(e.data);
        <portlet:namespace/>loadTestviewFile(<portlet:n
amespace/>initData.clone());

        <portlet:namespace/>initializeFileExplorer();

    }
);
```

OSP.Event.OSP_RESPONSE_DATA

???? ??? ??? ?? ???????? ??? ??? ?? ?? ??? ??????. ????? ??? ????? ?? ?? ????? ??
 ?? ?? ??? ?? ??????.

```

Liferay.on(
    OSP.Event.OSP_RESPONSE_DATA,
    function( e ){
        var myId = '<%=portletDisplay.getId()%>';
        if( myId !== e.targetPortlet ) return;

        var inputData = new OSP.InputData( e.data );

        if( inputData.type() !== OSP.Enumeration.PathType.FILE ){
            alert( 'File should be selected!' );
            return;
        }else{
            <portlet:namespace/>loadTestviewFile( inputData );
            $<portlet:namespace/>fileExplorerDialog
            Section.dialog('close');
        }
    }
);

```

OSP.Event.OSP_REFRESH_OUTPUT_VIEW

???? ???? ???? ?? ??? ?? ?????.

```

Liferay.on(
    OSP.Event.OSP_REFRESH_OUTPUT_VIEW,
    function(e){
        var myId = '<%=portletDisplay.getId()%>';
        if( myId !== e.targetPortlet ) return;

        var eventData = {
            portletId: '<%=portletDisplay.getId()%>',
            targetPortlet: <portlet:namespace/>connector
        };

        Liferay.fire(OSP.Event.OSP_REQUEST_OUTPUT_PATH, eventData);
    }
);

```

OSP.Event.OSP_INITIALIZE

?? HANDSHAKE ????? ?????? ??? ??? ?? ?????? ??? ??? ?????.

```
Liferay.on(
    OSP.Event.OSP_INITIALIZE,
    function(e){
        var myId = '<%=portletDisplay.getId()%>';
        if(myId !== e.targetPortlet) return;

        if( $.isEmptyObject(<portlet:namespace/>initData) )
            return;
        <portlet:namespace/>initializeFileExplorer( <portlet:namespace/>initData.clone() );
    }
);
```

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? ????? ????? ??? ????? ??? ?? ?? ??? ??????

????? ????? ??? ??? ??? ??? ?????.

???	??
loadXXXXXXFile(OSPInputData)	?? ????? ??? ????? ??? ?? ?? Output ??? path ??? ?? ????? ??? ?? ? ?? ?? ??? ?? ??
getFirstFileName(OSPInputData)	Output ??? ?? ??? ?????? ????? ?? ?? ?? result ????? ? ? ? ??? ?????? ??
drawXXXXXXView()	??? ?????? ??? ??? ?? ? ??? iframe ??? ???? ??? ?
initializeFileExplorer()	??? ??? ?? ?????? ??? ??
DownloadCurrentFile()	?? ????? ?? ???????? ??? ??? ?????

loadXXXXXXFile(OSPInputData)

```
function <portlet:namespace/>loadTestviewFile( inputData ){
    <portlet:namespace/>currentData = inputData;
    console.log("[testView] Load Data : input Data ", input
Data);
    switch( inputData.type() ){
    case OSP.Enumeration.PathType.FILE:
        <portlet:namespace/>drawView( inputData );
        break;
    case OSP.Enumeration.PathType.FOLDER:
    case OSP.Enumeration.PathType.EXT:
        <portlet:namespace/>getFirstFileName( inputData );
        // serveResourceUrl.setParameter('command', 'READ_F
IRST_FILE');
        break;
    case OSP.Enumeration.PathType.URL:
        alert('Un supported yet.'+inputData.type());
        break;
    default:
        alert('Un supported yet.'+inputData.type());
    }
}
```


drawXXXXXXView()

```

function <portlet:namespace/>drawView( inputData ){
    setTimeout(
        function(){
            var iframe = document.getElementById('<portlet:namespace/>canvas');
            var iframeDoc = iframe.contentDocument || i
            frame.contentWindow.document;

            console.log( '[testView]iframeDoc.readyState : ', iframeDoc.readyState);
            if ( iframeDoc.readyState == 'complete'
            && iframe.contentWindow.drawTestViewer ) {

                console.log("[testView] Load data
in draw");
                AUI().use('liferay-portlet-url', functi
on(a) {
                    <portlet:namespace/>currentData = input
Data.clone();
                    if( !<portlet:namespace/>currentData.re
positoryType() )
                        <portlet:namespace/>currentDat
a.repositoryType('<%=OSPRepositoryTypes.USER_JOBS.toStrin
g()%>');

                    var serveResourceUrl = Liferay.Port
letURL.createResourceURL();

                    serveResourceUrl.setPortletId('<%=p
ortletDisplay.getId()%>');
                    serveResourceUrl.setParameter('comm
and', 'GET_FILE');
                    serveResourceUrl.setParameter('repo
sitoryType', <portlet:namespace/>currentData.repositoryType());
                    serveResourceUrl.setParameter('path
Type', inputData.type());
                    serveResourceUrl.setParameter('pare
ntPath', inputData.parent());
                    serveResourceUrl.setParameter('file
Name', inputData.name());
                    serveResourceUrl.setParameter('rela
tive', inputData.relative());

                    console.log( '[testView]Draw Input
Data : ', inputData);

```

```

                                iframe.contentWindow.drawTestVi
ewer(inputData, serveResourceUrl.toString());

                                $('#<portlet:namespace/>titl
e').html(inputData.name());
                                });
                                }
                                else{
                                console.log("[testView] test esle
: load data in draw");

                                <portlet:namespace/>drawView( input
Data );

                                }

                                },
                                10
                                );
}

```

`getFirstFileName(OSPInputData)`

```

function <portlet:namespace/>getFirstFileName( inputData ){
    console.log('[testView]get First File Name : ', inputData );

    var data = {
        <portlet:namespace/>command: 'GET_FIRST_FILE_NAME',
        <portlet:namespace/>pathType: inputData.type_,
        <portlet:namespace/>repositoryType: inputData.repositoryType_,
        <portlet:namespace/>parentPath: inputData.parent_,
        <portlet:namespace/>fileName: inputData.name_
    };
    console.log("[testView] load get first file test : ", data);

    $.ajax({
        url: '<%= serveResourceURL.toString()%>',
        type: 'POST',
        data : data,
        dataType : 'json',
        success: function(data) {
            console.log("[testView] get result data ", data);

            inputData.name( data.fileName );
            inputData.type( OSP.Enumeration.PathType.FILE );

            <portlet:namespace/>drawView( inputData );

            console.log("[testView] Get First File Data : ", inputData);
        },
        error: function(data,e){
            console.log('[testView]AJAX ERROR1-->', data);
            console.log('[testView]AJAX ERROR2-->', e);
        },
        complete: function( jqXHR, textStatus ){
            console.log('[testView]AJAX complete', jqXHR);
        }
    });
}

```

initializeFileExplorer()

```

function <portlet:namespace/>initializeFileExplorer(){
    if( $.isEmptyObject(<portlet:namespace/>initData) ||(
        <portlet:namespace/>initData.type() !== OSP.Enu
meration.PathType.FILE &&
        <portlet:namespace/>initData.type() !== OSP.Enu
meration.PathType.FOLDER &&
        <portlet:namespace/>initData.type() !== OSP.Enu
meration.PathType.EXT ))        return;

    var eventData = {
        portletId: '<%=portletDisplay.getId()%>',
        targetPortlet: <portlet:namespace/>fileExplorerI
d,
        data: OSP.Util.toJSON(<portlet:namespace/>initDat
a)
    };

    Liferay.fire( 'OSP_LOAD_DATA', eventData );
}

```

DownloadCurrentFile()

```

function <portlet:namespace/>downloadCurrentFile(){
    console.log("[testView] Download current data", <portlet:namespace/>currentData);
    if( $.isEmptyObject(<portlet:namespace/>currentData) ||
        <portlet:namespace/>currentData.type() !== OS
        P.Enumeration.PathType.FILE )
        return;

    var filePath = <portlet:namespace/>currentData;
    var data = {
        <portlet:namespace/>command: "DOWNLOAD_FILE",
        <portlet:namespace/>pathType: filePath.type_,
        <portlet:namespace/>repositoryType: filePath.repositoryType_,
        <portlet:namespace/>parentPath: filePath.parentPath_,
        <portlet:namespace/>fileName: filePath.fileName_
    };

    var base = '<%=serveResourceURL.toString()%>';
    var sep = (base.indexOf('?') > -1) ? '&' : '?';
    var url = base + sep + $.param(data);

    location.href = url;
    <portlet:namespace/>loadJSMolFile( <portlet:namespace/>currentData );
}

```

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HANDSHAKE

Summary: ?? ?????? ?????? ??? ????? ??? ????? ??????. ?? ????? ???
? ????? ?? HANDSHAKE ????? ?????????? ?? ?? ?? ? ????? ??? ?? ???.

OSP HADNSHAKE ???

?? ?????? ?????? ??? ????? ??? ????? ??????. ?? ????? ?????? ????? ?? HANDSHAKE ?
??? ?????????? ?? ?? ?? ? ????? ??? ?? ???.

?? HANDSHAKE ?? ????? ??? ?? ??? ??? ?????? ?????? ????? ??, ??? ?????? ????? ??
????? ?????? ?? ?????? ??? ?? ??? ?? ???.

- ?? ??


```

Liferay.on(
    OSP.Event.OSP_HANDSHAKE,
    function(e){
        var myId = '<%=portletDisplay.getI
d()%>';

        if( e.targetPortlet !== myId ){
            return
        }
        console.log('[NGLViewer]OSP_HANDSHAKE:
['+e.portletId+', '+new Date()+']');
        <portlet:namespace/>connector = e.portle
tId;

        if( e.mode )
            <portlet:namespace/>action = e.m
ode;
        else
            <portlet:namespace/>action = 'VI
EW';

        var events = [
            OSP.Event.OSP_EVENTS_REGISTERED,
            OSP.Event.OSP_LOAD_DATA
        ];
        var eventData = {
            portletId: myId,
            targetPortlet: <portlet:namespac
e/>connector,
            data: events
        };
        Liferay.fire( OSP.Event.OSP_REGISTER_EVENTS, event
Data );
    }
);

```

REGISTERED EVENT

OSP REGISTERED ???

- ?? ??

```
Liferay.on(
  OSP.Event.OSP_EVENTS_REGISTERED,
  function(e){
    var myId = '<%=portletDisplay.getId()%>';
    if(e.targetPortlet === myId){
      console.log('[NGLViewer]Registered'+e.portletId+' activated. '+new Date()+']');
    }
  }
);
```

REQUEST DATA EVENT

OSP REQUEST DATA ???

???? ??? ??? ??? ????? ??? ????? ????? ? ?, ????? ??????? ??? ????? ????. ??
? ????? ??????? ??? ????? ????? ??????, ?? ????? ?? ??? ????? ????.

- ?? ??

```
Liferay.on(
    OSP.Event.OSP_REQUEST_DATA,
    function(e){
        var myId = '<%=portletDisplay.getId()%>';
        if( e.targetPortlet === myId ){
            var iframe = document.getElementById('<portlet:namespace/>TBox');
            var eventData = {
                portletId: myId,
                targetPortlet: e.portletId,
                data: {
                    type_: OSP.Enumeration.PathType
e.FILE_CONTENT,
                    context_: iframe.contentWindo
w.getParameters(),
                    params: e.params
                }
            }
            Liferay.fire(OSP.Event.OSP_RESPONSE_DATA,
eventData);
        }
    }
);
```

RESPONSE DATA EVENT

OSP RESPONSE DATA ???

- ?? ??

```

Liferay.on(
    OSP.Event.OSP_RESPONSE_DATA,
    function( e ){
        var myId = '<%=portletDisplay.getId()%>';
        if( e.targetPortlet !== myId )      return;
        console.log("[ATOM EDITOR] OSP OSP_RESPONSE_DA
TA :", e );
        var iframe = document.getElementById('<portle
t:namespace/>TBox');
        var filePath = new OSP.InputData( e.data );
        if( filePath.type() !== OSP.Enumeration.PathTy
pe.FILE ){
            alert('File Name is not available. Choose
another one. ');
            return;
        }

        if( !<portlet:namespace/>saveAction ){
            <portlet:namespace/>loadText( filePath, tr
ue );
            <portlet:namespace/>fileExplorerDialogSec
tion.dialog('close');
        }
        else{
            $( '#<portlet:namespace/>uploadFileName' ).v
al(filePath.name());
            filePath.type( OSP.Enumeration.PathType.FI
LE_CONTENT );
            filePath.context( iframe.contentWindow.get
Parameters() );

            $.ajax({
                url: '<%=serveResourceURL.toStrin
g()%>',
                type: 'POST',
                dataType: 'json',
                data:{
                    <portlet:namespace/>command: "CHEC
K_DUPLICATED",
                    <portlet:namespace/>repositoryTyp
e: filePath.repositoryType(),
                    <portlet:namespace/>parentPath: fi
lePath.parent(),
                    <portlet:namespace/>fileName: file
Path.name()

```

```

    },
    success: function(result){
        var duplicated = result.duplicate
d;
        if( duplicated ){
            var confirmDialog = $('#<portl
et:namespace/>confirmDialog');
            confirmDialog.dialog(
                {
                    resizable: false,
                    height: "auto",
                    width: 400,
                    modal: true,
                    buttons: {
                        'OK': func
tion() {
                            $( this ).dialog( 'destroy' );

                            <portlet:namespace/>saveContentAs ( filePath );

                            $<portlet:namespace/>fileExplorerDialogSection.dialo
g('close');
                                },
                                Cancel: fu
nction() {
                                    $( this ).dialog( 'destroy' );
                                }
                            }
                        );
                    }
                else{
                    <portlet:namespace/>saveConten
tAs ( filePath );
                    $<portlet:namespace/>fileExplo
rerDialogSection.dialog('close');
                }
            },
            error: function( e, d ){
                console.log(' [ATOM EDITOR] file s
ave error', e, d);
            }
        });

```

```
};  
}
```

LOAD DATA EVENT

OSP LOAD DATA ???

??? ?? ????? ????? ? ???? ???? , ??? ???? ?? ??? ????? ????? ? ???? ???? ?
 ??? ?????.

???? ??? ??? ????? ?????? ????? ???? ???? ?????? ???? ?????, ??? ??? ? ?? ?
 ?? ?? ??? ?? ??? ????? ?? ????? ?????.

- ?? ??

```
Liferay.on(
  'OSP_LOAD_DATA',
  function(e){
    var myId = '<%=portletDisplay.getId()%>';
    console.log("[ATOM EDITOR] OSP LOAD DATA :", myId, e.targetPortlet );
    if( e.targetPortlet !== myId )      return;

    <portlet:namespace/>initData = e.data;
    if( ! <portlet:namespace/>initData.repositoryType_
e_){
      <portlet:namespace/>initData.repositoryType_
= 'USER_HOME';
    }
    <portlet:namespace/>loadEPDEditor( OSP.Util.toJSON(<portlet:namespace/>initData) );
    <portlet:namespace/>initializeFileExplorer();
  }
);
```


INITIAIZE EVENT

OSP INITIAIZE ???

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 ?????? ??? ??? ????? ?????? ? ? ????? ???????.

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```
Liferay.on(
  'OSP_INITIALIZE',
  function(e){
    var myId = '<%=portletDisplay.getId()%>';
    if( e.targetPortlet !== myId )      return;
    <portlet:namespace/>initializeFileExplorer();
  }
);
```

REQUEST OUTPUT VIEW EVENT

OSP REQUEST OUTPUT VIEW ???

- ?? ??

```
Liferay.on(
    OSP.Event.OSP_REFRESH_OUTPUT_VIEW,
    function(e){
        var myId = '<%=portletDisplay.getId()%>';
        if( myId !== e.targetPortlet ) return;

        var eventData = {
            portletId: '<%=portletDisplay.getI
d()%>',
            targetPortlet: <portlet:namespace/>con
nector
        };

        Liferay.fire(OSP.Event.OSP_REQUEST_OUTPUT_PAT
H, eventData);
    }
);
```

REQUEST DATA CHANGED EVENT

OSP DATA CHANGED ???

???? ???? ???? ??, ???? ??? ?? ???? ???? ??? ?? ???? ???? ? ?
???? ??? ???? ???? ???? ???? JSON? ??? ???? ???? ???? ????.

- ?? ??

```

function <portlet:namespace/>fireTextChangedEvent( data
){
    <portlet:namespace/>ViewStructure();

    var inputData = new OSP.InputData();
    inputData.type( OSP.Enumeration.PathType.FILE_CONT
ENT );
    if( $.isEmptyObject(<portlet:namespace/>initData)
){
        inputData.repositoryType( '<%=OSPRepositoryType
s.USER_HOME.toString()%>' );
    }
    else if( <portlet:namespace/>initData.repositoryTy
pe_ ){
        console.log("[ATOM EDITOR] test re[psotpry Typ
e]", <portlet:namespace/>initData);
        inputData.repositoryType(<portlet:namespace/>i
nitData.repositoryType_);
    }
    else{
        inputData.repositoryType( '<%=OSPRepositoryType
s.USER_HOME.toString()%>' );
    }
    inputData.context( data );

    var eventData = {
        portletId: '<%=portle
tDisplay.getId()%>',
        targetPortlet: <portl
et:namespace/>connector,
        data: OSP.Util.toJSO
N(inputData)
    };
    Liferay.fire( OSP.Event.OSP_DATA_CHANGED, eventDat
a );
}

```