



adaptTo()

APACHE SLING & FRIENDS TECH MEETUP
BERLIN, 22-24 SEPTEMBER 2014

JCRBrowser
Based on Apache Sling, build with passion.

The Sling JCRBrowser
Sandro Böhme, inovex GmbH



1. About me and my motivation
2. JCRBrowser Demo
3. Inner workings
4. Roadmap

About me and my motivation



- Classic web based JEE background

About me and my motivation

- Classic web based JEE background
- Building up knowledge

Thanks to:

Felix Meschberger

Carsten Ziegler

Alexander Klimetschek

Stuart McCulloch

Bertrand Delacretaz

Jukka Zitting

Eric Norman

Richard S. Hall

Justin Edelson

Michael Dürig

Neil Bartlett

Stefan Guggisberg

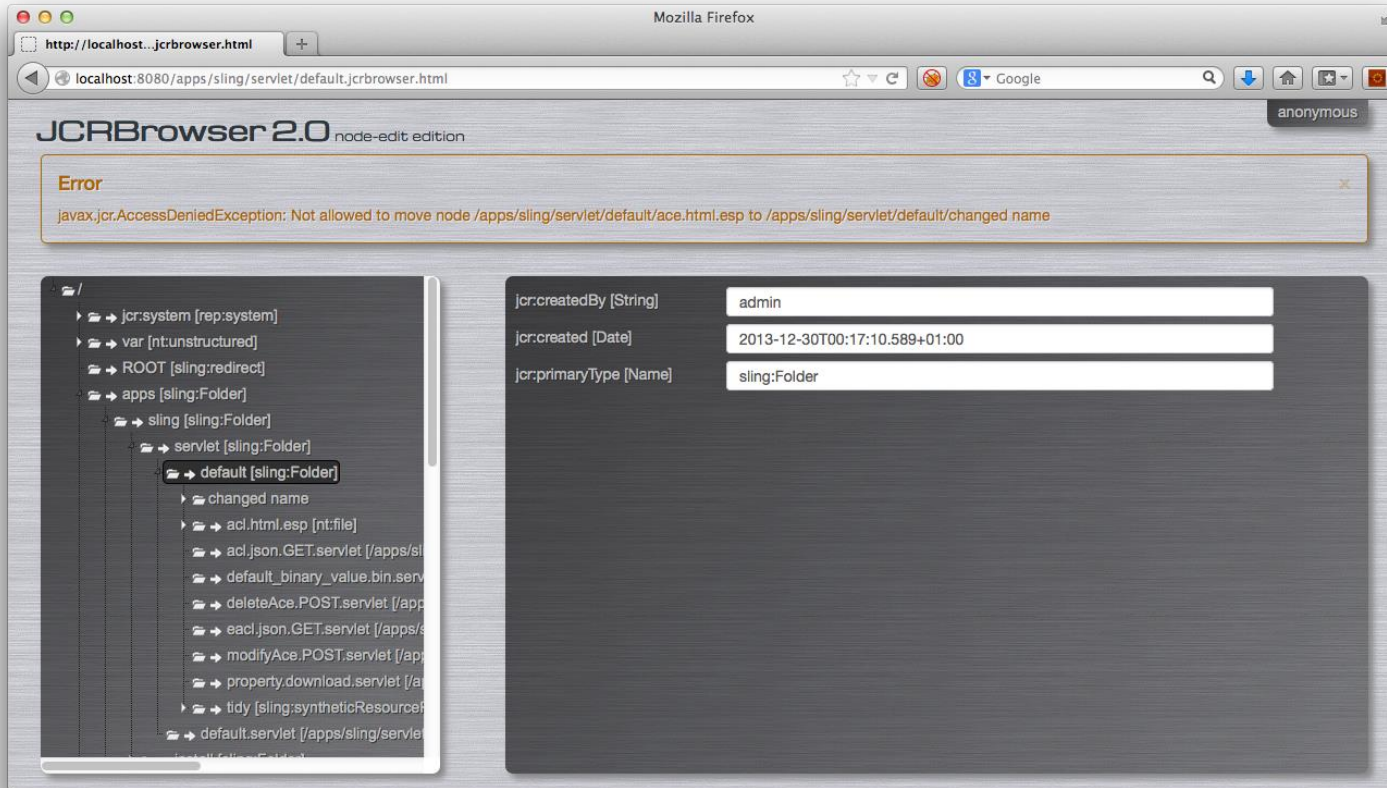
for answering my questions in the mailing lists!

- Opportunity to work more intensely

- 
- The background of the slide is a photograph of a person climbing a rope. The person is silhouetted against a bright, glowing light source, likely the sun, which creates a strong lens flare effect. The person is positioned on the right side of the frame, leaning forward as they ascend. The overall mood is one of determination and effort.
- Opportunity to work more intensely until November 2015
 - Working on doing that for a living

About me and my motivation

- Opportunity to work more intensely until November 2015
- Working on doing that for a living
- Join me in this fun adventure!



The screenshot shows a Mozilla Firefox browser window displaying the JCRBrowser 2.0 interface. The browser's address bar shows the URL `http://localhost:8080/apps/sling/servlet/default.jcrbrowser.html`. The page title is "JCRBrowser 2.0 node-edit edition" and the user is logged in as "anonymous".

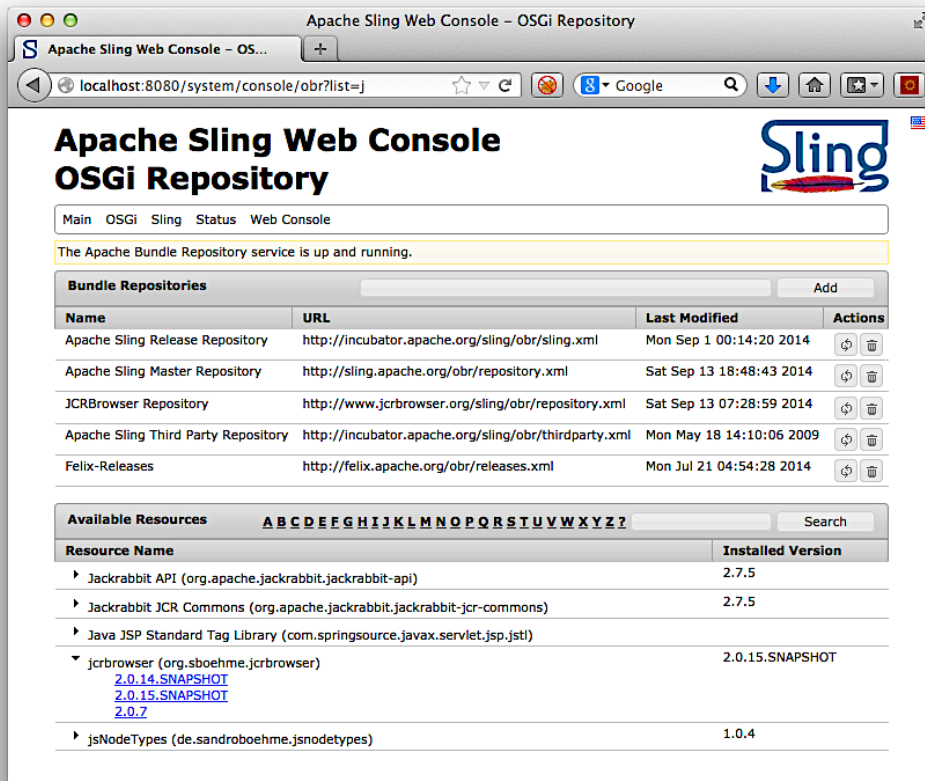
An error message is displayed in a yellow box at the top of the interface:

```

Error
-----
javax.jcr.AccessDeniedException: Not allowed to move node /apps/sling/servlet/default/ace.html.esp to /apps/sling/servlet/default/changed name
  
```

Below the error message, the interface is split into two main sections:

- Left Panel (Node Tree):** A tree view showing the JCR structure. The path `/apps/sling/servlet/default` is selected, and the `default` node is highlighted. The tree includes nodes like `changed name`, `acl.html.esp`, `acl.json.GET.servlet`, `default_binary_value.bin.serv`, `deleteAce.POST.servlet`, `eacl.json.GET.servlet`, `modifyAce.POST.servlet`, `property.download.servlet`, `tidy`, and `default.servlet`.
- Right Panel (Form):** A form for editing the selected node's properties. The visible properties are:
 - `jcr:createdBy [String]` with the value `admin`.
 - `jcr:created [Date]` with the value `2013-12-30T00:17:10.589+01:00`.
 - `jcr:primaryType [Name]` with the value `sling:Folder`.



Apache Sling Web Console - OSGi Repository

localhost:8080/system/console/obr?list=j

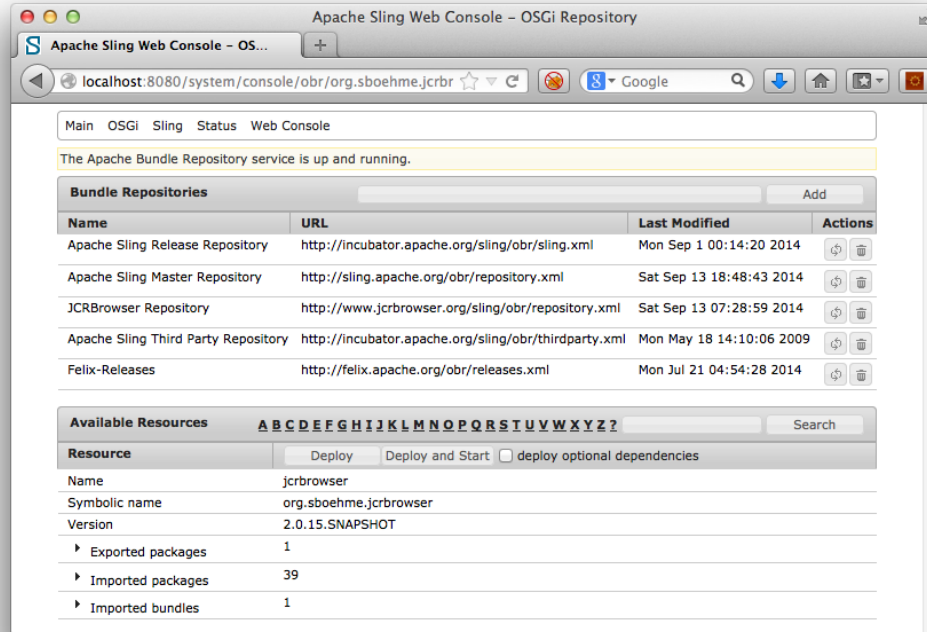
Apache Sling Web Console OSGi Repository

Main OSGi Sling Status Web Console

The Apache Bundle Repository service is up and running.

Bundle Repositories				Add
Name	URL	Last Modified	Actions	
Apache Sling Release Repository	http://incubator.apache.org/sling/obr/sling.xml	Mon Sep 1 00:14:20 2014		
Apache Sling Master Repository	http://sling.apache.org/obr/repository.xml	Sat Sep 13 18:48:43 2014		
JCRBrowser Repository	http://www.jcrbrowser.org/sling/obr/repository.xml	Sat Sep 13 07:28:59 2014		
Apache Sling Third Party Repository	http://incubator.apache.org/sling/obr/thirdparty.xml	Mon May 18 14:10:06 2009		
Felix-Releases	http://felix.apache.org/obr/releases.xml	Mon Jul 21 04:54:28 2014		

Available Resources		Search
Resource Name	Installed Version	
▸ Jackrabbit API (org.apache.jackrabbit.jackrabbit-api)	2.7.5	
▸ Jackrabbit JCR Commons (org.apache.jackrabbit.jackrabbit-jcr-commons)	2.7.5	
▸ Java JSP Standard Tag Library (com.springsource.javax.servlet.jsp.jstl)		
▾ jcrbrowser (org.sboehme.jcrbrowser)	2.0.15.SNAPSHOT	
	2.0.14.SNAPSHOT	
	2.0.15.SNAPSHOT	
	2.0.7	
▸ jsNodeTypes (de.sandroboehme.jsnodetypes)	1.0.4	













Apache Sling Web Console - OSGi Repository

localhost:8080/system/console/obr/org.sboehme.jcrbr

Main OSGi Sling Status Web Console

The Apache Bundle Repository service is up and running.

Bundle Repositories Add

Name	URL	Last Modified	Actions
Apache Sling Release Repository	http://incubator.apache.org/sling/obr/sling.xml	Mon Sep 1 00:14:20 2014	 
Apache Sling Master Repository	http://sling.apache.org/obr/repository.xml	Sat Sep 13 18:48:43 2014	 
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Felix-Releases	http://felix.apache.org/obr/releases.xml	Mon Jul 21 04:54:28 2014	 

Available Resources A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ? Search

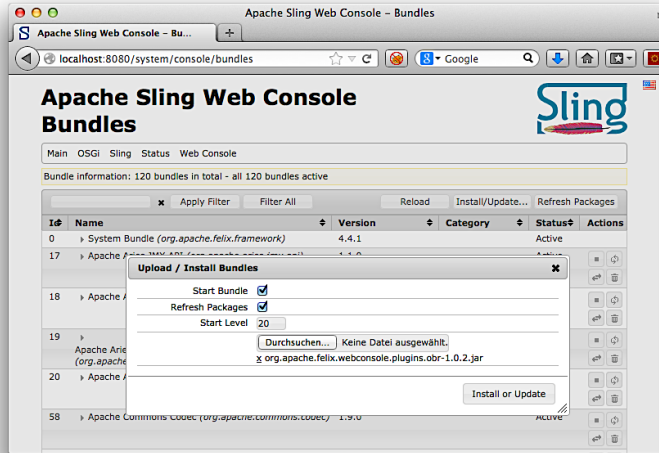
Resource Deploy Deploy and Start deploy optional dependencies

Name jcrbrowser

Symbolic name org.sboehme.jcrbrowser

Version 2.0.15.SNAPSHOT

- Exported packages 1
- Imported packages 39
- Imported bundles 1



Durchsuchen... Keine Datei ausgewählt.
x org.apache.felix.webconsole.plugins.obr-1.0.2.jar

Sling

Servlet 2.5

JSTL 1.2

JSP 2.1

LESS Elements

Animate.css

Bootbox.js

{less}

jsTree
jQuery tree plugin

JSNodeTypes



HTML

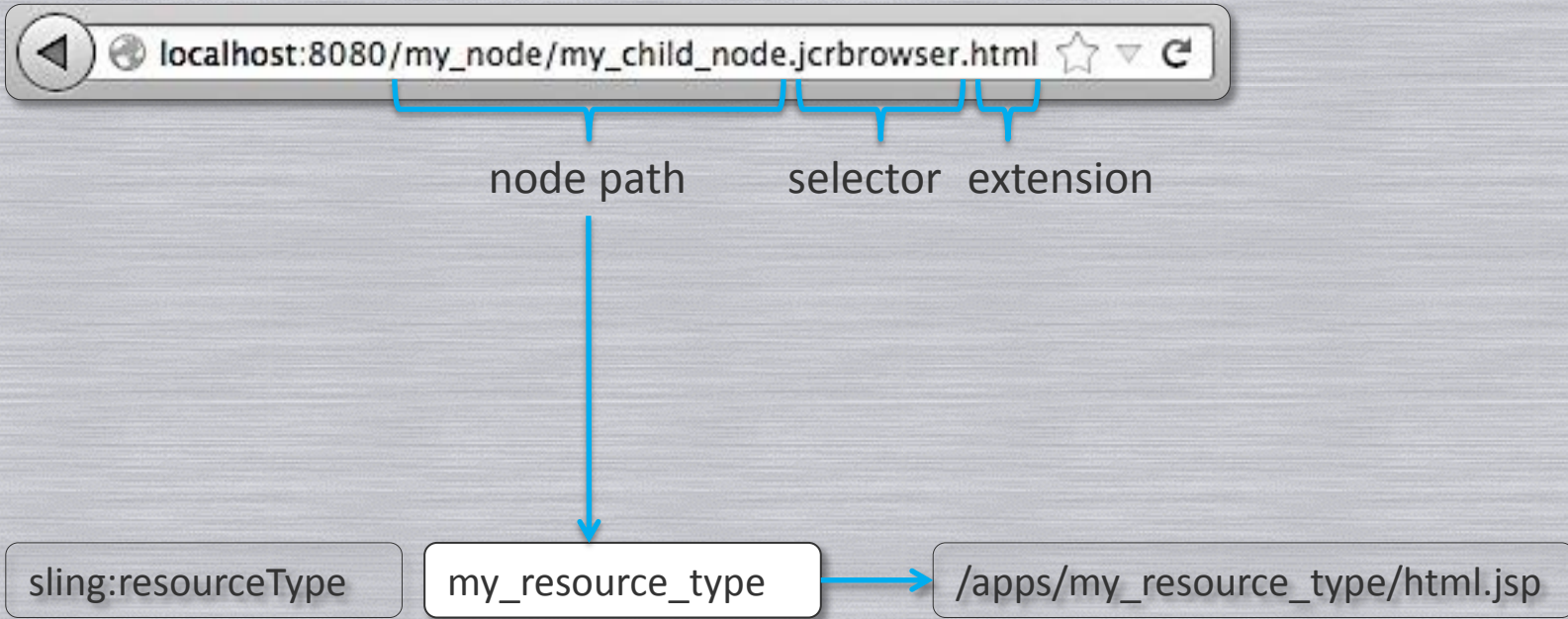


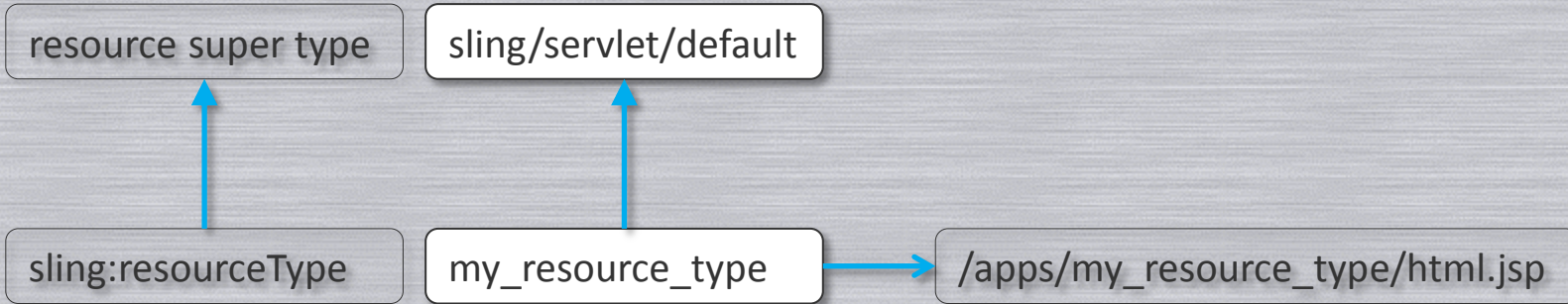
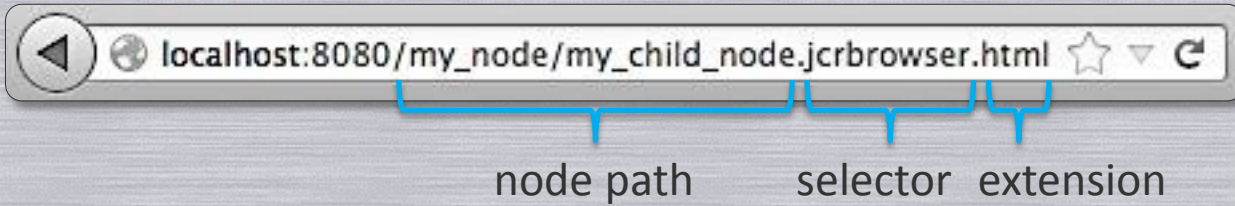
CSS



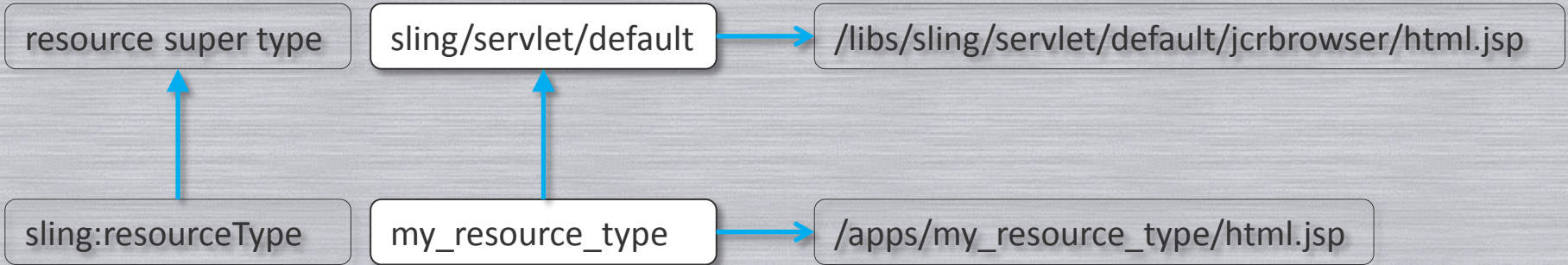
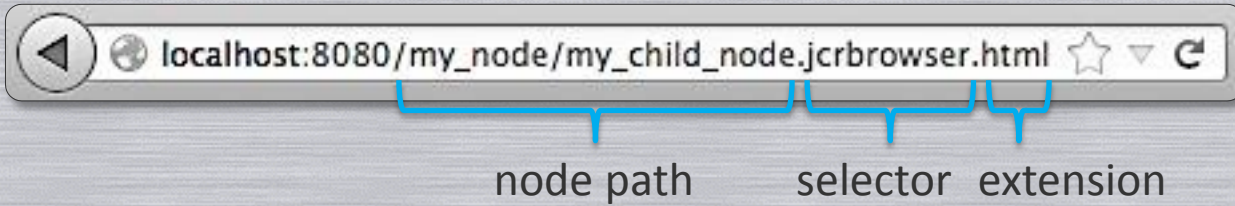
jQuery
write less, do more.

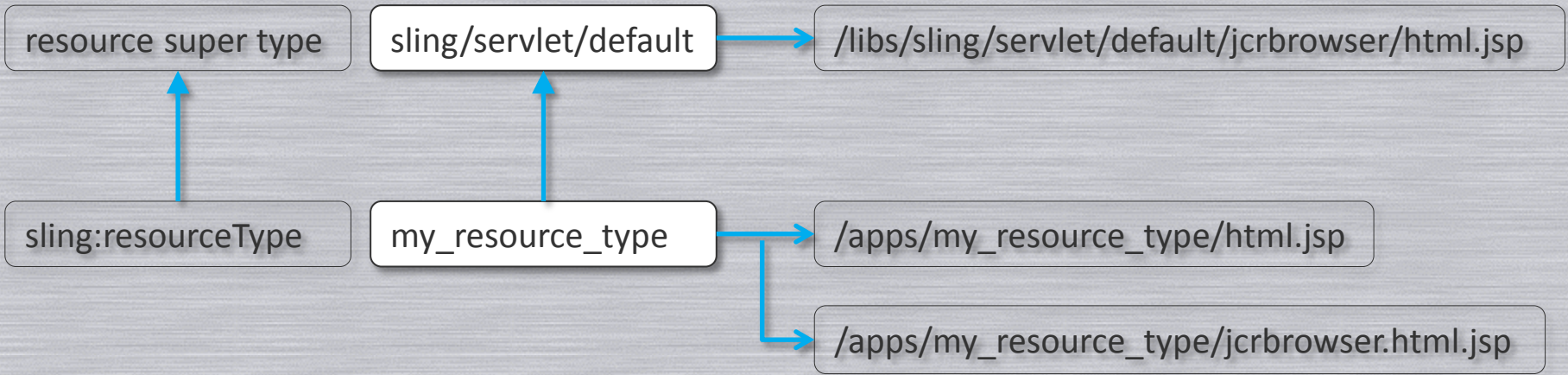
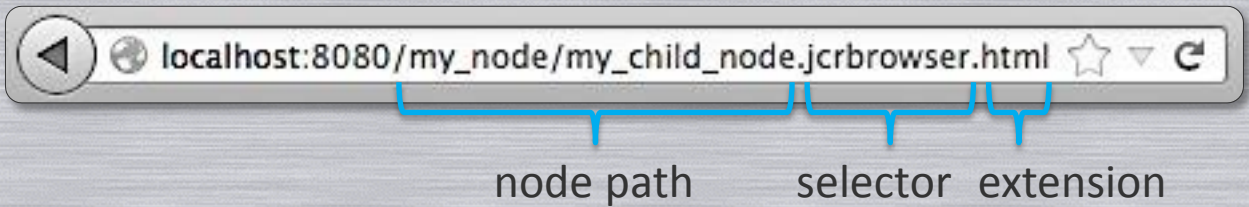
Inner workings :: script resolution

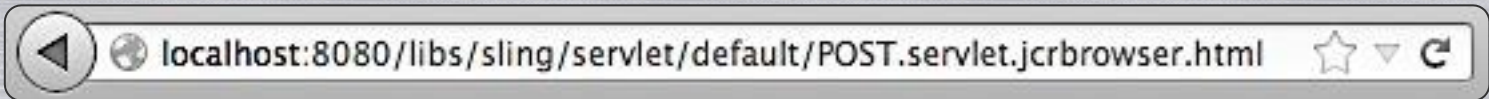




Inner workings :: script resolution







Method GET not supported (405)

```
50 public Resource decorate(Resource resource, HttpServletRequest request) {
51     String pathInfo = request.getPathInfo();
52     return getJCRBrowserResourceWrapper(resource, pathInfo);
53 }
54
55 public Resource decorate(Resource resource) {
56     Resource result = null;
57     if (resource != null) {
58         ResourceMetadata resourceMetadata = resource.getResourceMetadata();
59         if (resourceMetadata != null) {
60             String resolutionPathInfo = resourceMetadata.getResolutionPathInfo();
61             result = getJCRBrowserResourceWrapper(resource, resolutionPathInfo);
62         }
63     }
64     return result;
65 }
66
67 private Resource getJCRBrowserResourceWrapper(Resource resource, String resolutionPathInfo) {
68     Resource result = null;
69     if (resolutionPathInfo != null && resolutionPathInfo.endsWith(".jcrbrowser.html")) {
70         result = new ResourceWrapper(resource) {
71             @Override
72             public String getResourceType() {
73                 return "jcrbrowser";
74             }
75         };
76     }
77     return result;
78 }
```

```

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```

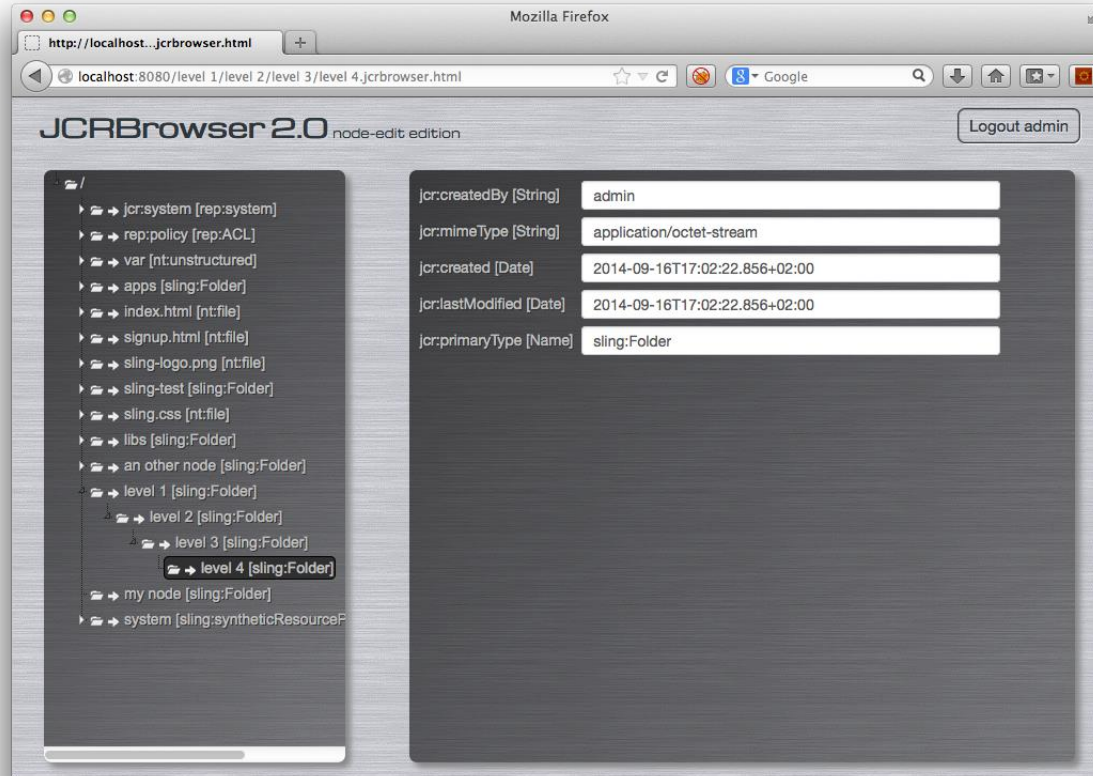
JSTreeAdapter.jcrbrowser.js:

```
url' : function (liJsn) {  
  // initial call for the root element  
  if (liJsn.id === '#'){  
    return settings.contextPath+"/.jcrbrowser.rootnodes.json";  
  } else {  
    // the li the user clicked on.  
    var li = $('#'+liJsn.id);  
    return treeController.get_uri_from_li(li, ".jcrbrowser.nodes.json");  
  }  
}
```

JSTreeAdapter.jcrbrowser.js:

```
url' : function (liJson) {  
  // initial call for the root element  
  if (liJson.id === '#'){  
    return settings.contextPath+"/jcrbrowser.rootnodes.json";  
  } else {  
    // the li the user clicked on.  
    var li = $('#+liJson.id');  
    return treeController.get_uri_from_li(li, ".jcrbrowser.nodes.json");  
  }  
}
```

```
{  
  text      : "mynode [nt:folder]"  
  li_attr   : {"nodename": "mynode"}  
  a_attr    : {"href": "/mynode.jcrbrowser.html"}  
  children  : true/false or [{text: "mychildnode", li_attr: {},... }, {},...]  
}
```

Logout admin

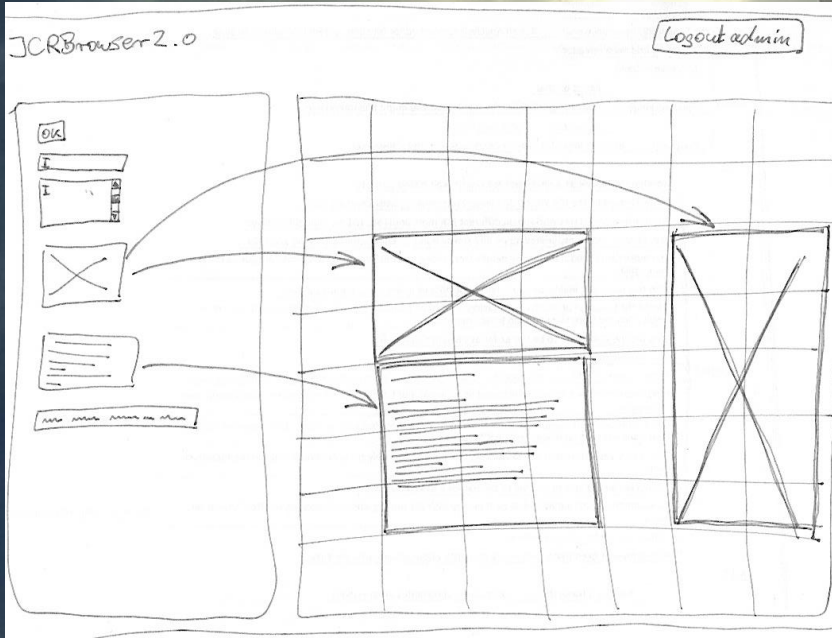
jcr:createdBy [String]	admin
jcr:mimeType [String]	application/octet-stream
jcr:created [Date]	2014-09-16T17:02:22.856+02:00
jcr:lastModified [Date]	2014-09-16T17:02:22.856+02:00
jcr:primaryType [Name]	sling:Folder

Roadmap – where will it head to?

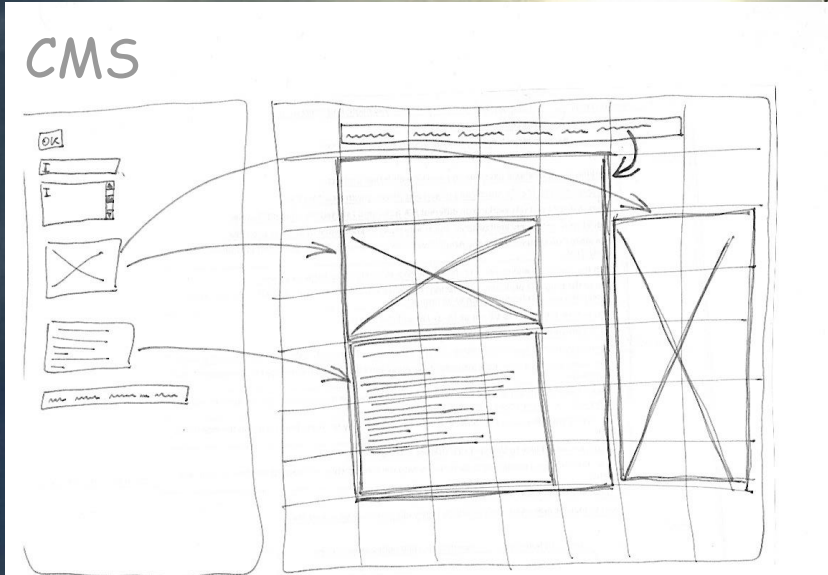


- Enhance node and generic property editor

Custom properties page editor



Template editor for small CMS



Small CMS - but easy to create and update websites.

A photograph of five skydivers in formation against a bright sun in a blue sky with wispy clouds. The skydivers are wearing red and white suits. The sun is in the upper center, creating a lens flare effect. The clouds are scattered and light-colored. The overall scene is dynamic and adventurous.

Join me at this fun adventure!

- **Website:**
<http://www.jcrbrowser.org/sling/website>
- **OBR:**
<http://www.jcrbrowser.org/sling/obr/repository.xml>
- **GitHub:**
<http://github.com/sandroboehme/jcrbrowser>

- **Employer:** <http://www.inovex.de>
- **WYSIWYG JSP POC:**
<https://github.com/sandroboehme/wysiwyg-jsp>
- **JSNodeTypes:**
<https://github.com/sandroboehme/jsNodeTypes>

- **Other talks from my colleagues:**
- [youtube.com/inovexgmbh](https://www.youtube.com/inovexgmbh)

Questions

- **For any discussion:**
 - users@sling.apache.org
 - Sandro.boehme@inovex.de
 - Sandro.boehme@gmx.de
 - google.com/+SandroBöhme



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