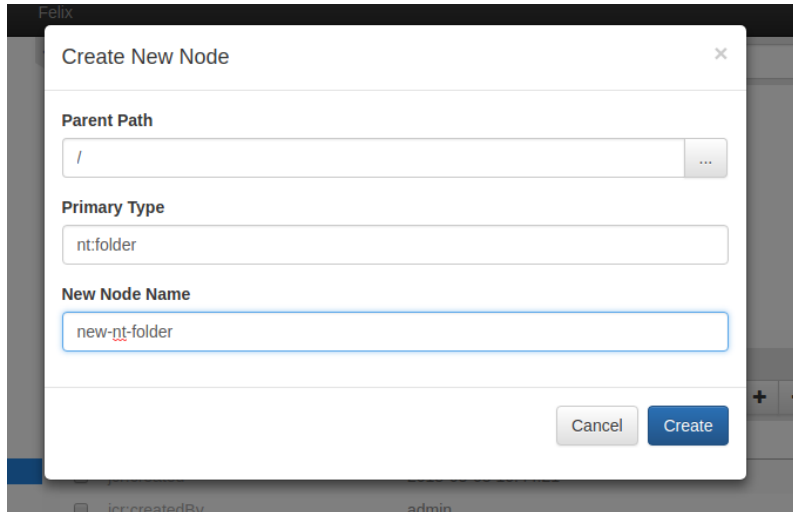


JCR and Adobe CRX

Create different node types and set different properties on these nodetypes.

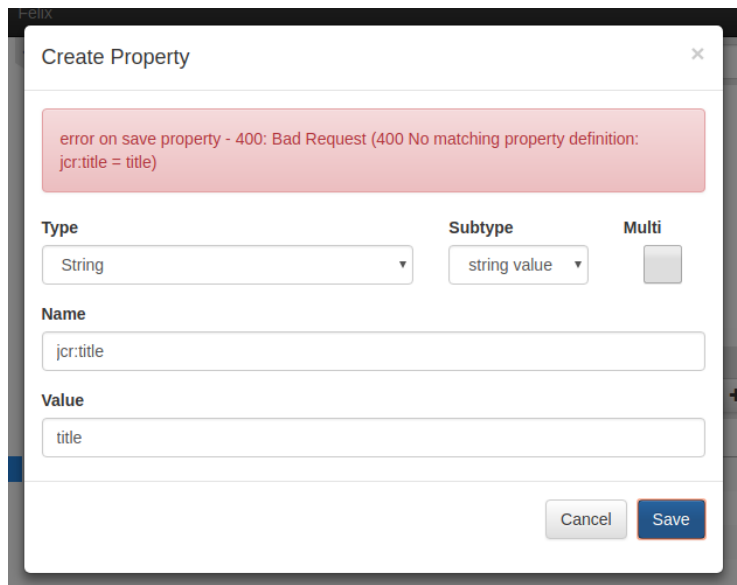
<http://jackrabbit.apache.org/jcr/node-type-notation.html>

- Create “nt:Folder” nodetype and assign a property “jcr:title” with some random value to it. If unable to do it, how can you make it possible?



The screenshot shows a 'Create New Node' dialog box. It has three main sections: 'Parent Path' with a text field containing '/', 'Primary Type' with a dropdown menu showing 'nt:folder', and 'New Node Name' with a text field containing 'new-nt-folder'. At the bottom right, there are 'Cancel' and 'Create' buttons.

It is not possible to add additional properties to nt:folder.



The screenshot shows a 'Create Property' dialog box. At the top, there is a red error message: 'error on save property - 400: Bad Request (400 No matching property definition: jcr:title = title)'. Below the error, there are three sections: 'Type' with a dropdown menu showing 'String', 'Subtype' with a dropdown menu showing 'string value', and 'Multi' with an unchecked checkbox. Below these are 'Name' and 'Value' text fields, both containing 'title'. At the bottom right, there are 'Cancel' and 'Save' buttons.

We can use mixinTypes to make it possible to add additional properties to nodes. We add a new property mixinTypes and add value mix:title to it.

After this we can add jcr:title to the node.

jcr:root / new-nt-folder

Name	Value	Multi	Type	Auto
jcr:created	2018-03-08 13:45:06	false	Date	true
jcr:createdBy	admin	false	String	true
jcr:mixinTypes	mix:title	true	Name	false
jcr:primaryType	nt:folder	false	Name	true
jcr:title	title	false	String	false

create SQL2 expression to search for the nt:folder with assigned title.

SELECT * FROM [nt:folder] WHERE [jcr:title] = 'title'

/new-nt-folder

1 items found.
query: 'SELECT * FROM [nt:folder] WHERE [jcr:title] = 'title''

Create “nt:unstructured” node with name “myversion”

Create New Node

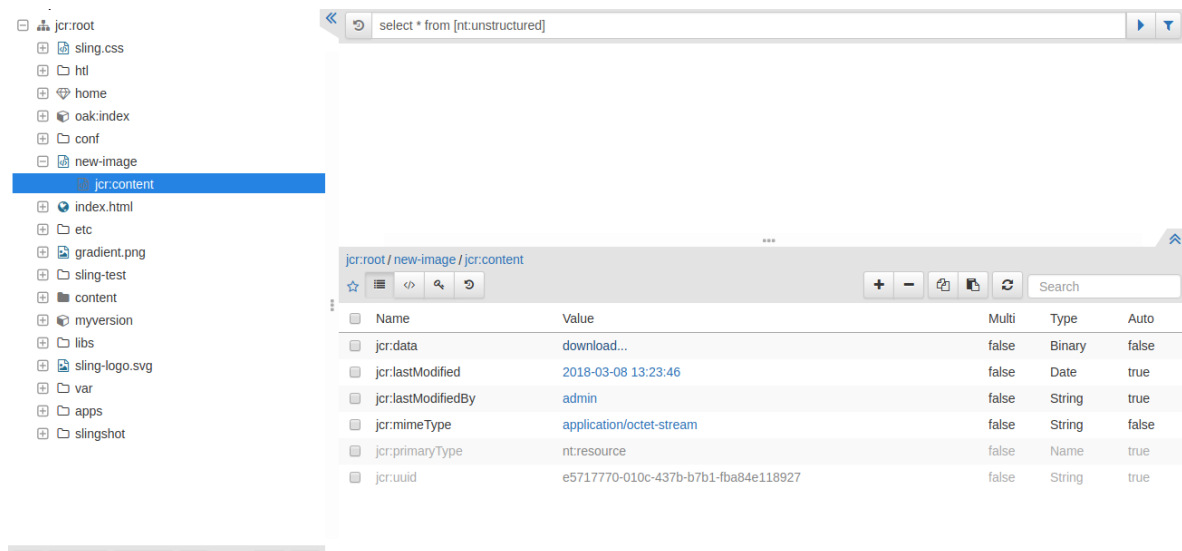
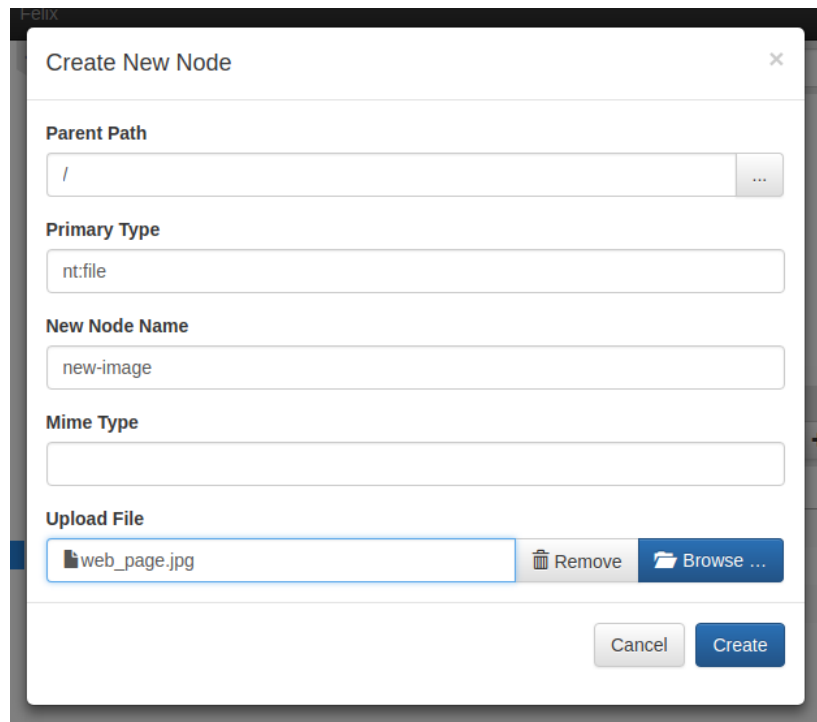
Parent Path
/

Primary Type
nt:unstructured

New Node Name
myversion

Cancel Create

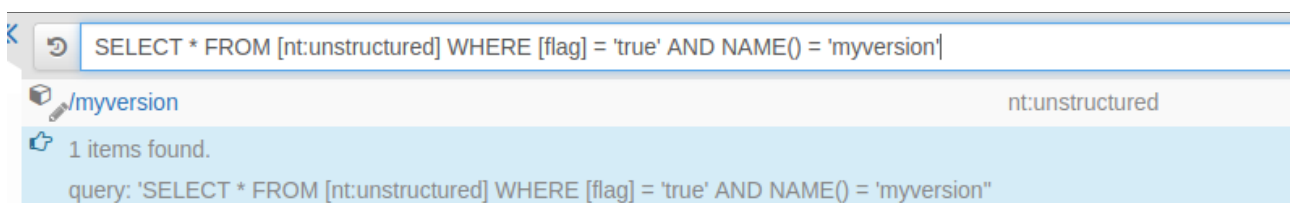
Create a node by uploading a file (image, video, word document etc) and see the resulting nodetype created.



Name	Value	Multi	Type	Auto
jcr:data	download...	false	Binary	false
jcr:lastModified	2018-03-08 13:23:46	false	Date	true
jcr:lastModifiedBy	admin	false	String	true
jcr:mimeType	application/octet-stream	false	String	false
jcr:primaryType	nt:resource	false	Name	true
jcr:uuid	e5717770-010c-437b-b7b1-fba84e118927	false	String	true

The type of the added node is nt:resource.

Search for a node that is of type nt:unstructured and contains a boolean property “flag” set to true and is of name “myversion”



```
SELECT * FROM [nt:unstructured] WHERE [flag] = 'true' AND NAME() = 'myversion'
```

/myversion nt:unstructured

1 items found.

query: 'SELECT * FROM [nt:unstructured] WHERE [flag] = 'true' AND NAME() = 'myversion''

In the above created nodes, add mixin.

- Add mix:versionable and verify versioning is taking place.

Made the file versionable and checked in to a new version, checked out and edited the title.

<input type="checkbox"/> Name	Value
<input type="checkbox"/> jcr:baseVersion	af4c73ee-6687-4f8d-bfa3-9ac8edc6881d
<input type="checkbox"/> jcr:created	2018-03-08 13:45:06
<input type="checkbox"/> jcr:createdBy	admin
<input type="checkbox"/> jcr:isCheckedOut	false
<input type="checkbox"/> jcr:mixinTypes	mix:title, mix:versionable
<input type="checkbox"/> jcr:predecessors	
<input type="checkbox"/> jcr:primaryType	nt:folder
<input type="checkbox"/> jcr:title	title

jcr:root / new-nt-folder

☐ ☐ ☐ ☐ ☐

<input type="checkbox"/> Name	Value
<input type="checkbox"/> jcr:baseVersion	4aecb099-d73b-46a7-a82c-89c4823b9b6e
<input type="checkbox"/> jcr:created	2018-03-08 13:45:06
<input type="checkbox"/> jcr:createdBy	admin
<input type="checkbox"/> jcr:isCheckedOut	false
<input type="checkbox"/> jcr:mixinTypes	mix:title, mix:versionable
<input type="checkbox"/> jcr:predecessors	
<input type="checkbox"/> jcr:primaryType	nt:folder
<input type="checkbox"/> jcr:title	edited title

Restored to the previous version.

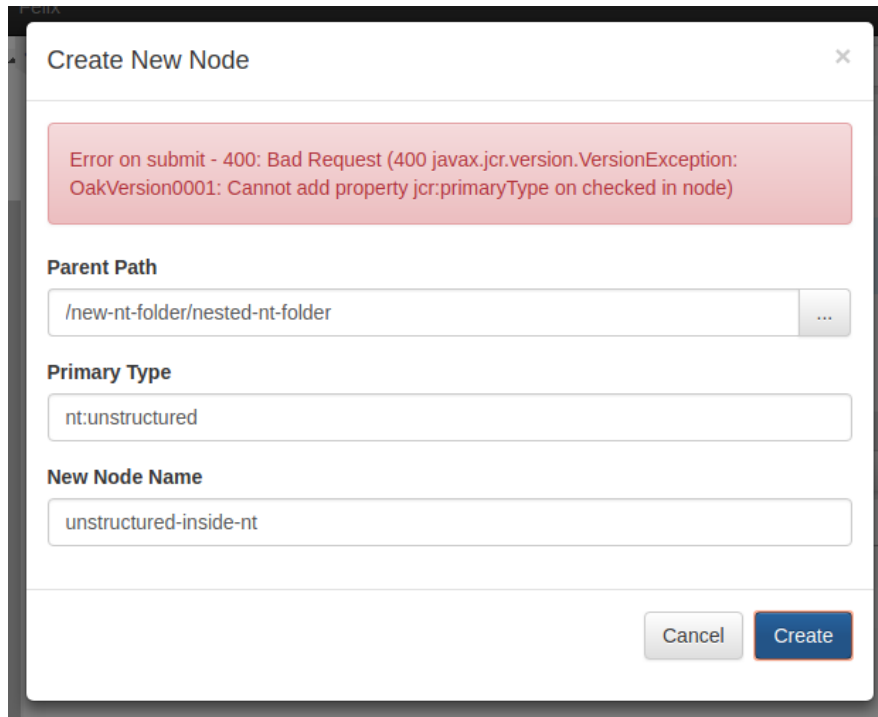
jcr:root / new-nt-folder

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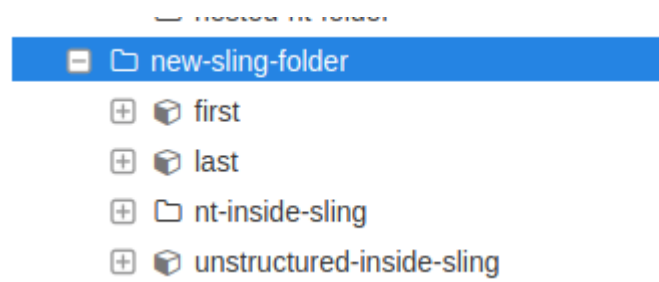
Name	Date
<input type="checkbox"/> jcr:baseVersion	af4c73ee-6687-4f8d-bfa3-9ac8edc6881d
<input type="checkbox"/> jcr:created	2018-03-08 13:45:06
<input type="checkbox"/> jcr:createdBy	admin
<input type="checkbox"/> jcr:isCheckedOut	false
<input type="checkbox"/> jcr:mixinTypes	mix:title, mix:versionable
<input type="checkbox"/> jcr:predecessors	
<input type="checkbox"/> jcr:primaryType	nt:folder
<input type="checkbox"/> jcr:title	title

Differentiate between nt:folder, sling:folder and sling:orderedFolder. Show the difference practically.

nt:folder – it restricts its contents to nodes that inherit nt:hierarchyNode or have it as a mixin. It can contain nt:folder nt:file and some other nodes types. But it cannot contain all other type of nodes, one such node is nt:unstructured. It cannot also have other additional properties unless we use mixins to add properties.



sling:Folder – it extends nt:folder and can be used within other nt:folders. But it cannot also have all other type of nodes. And additional properties can also be added to them. The insertion order is not maintained in sling:Folder but are sorted. sling:Folder can be added in a nt:folder to allow other nodes to be added in nt:folder.



sling:OrderedFolder – is similar to sling:Folder but maintains the order of insertion of the nodes contained in it and unlike sling:Folder are not sorted in any order by sling.

Names of nodes in the following image is not representative of the order in which they were inserted.

