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api core

Sling API CRUD Support

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Apache Sling API Support

As of version 2.3.0, the Sling API provides full Create Read Update Delete (CRUD) features. CRUD support is provided by the addition of the following methods to the ResourceResolver:

- void delete(Resource resource) throws PersistenceException
- Resource create(Resource parent, String name, Map<String, Object> properties) throws
 PersistenceException
- void revert()
- void commit() throws PersistenceException
- boolean hasChanges()
- void refresh()

Which provide the ability to create and delete resources as well as the addition of the ModifiableValueMap interface which is similar to the ValueMap interface, but allows for updating properties on a resource.

Comparing Sling API CRUD to Sling Post Servlet

Here are some examples of common operations performed using the Sling Post Servlet and Sling API CRUD support. Note, the examples are derived from the <u>SlingPostServlet Cheatsheet</u>.

Updating a Property

Update /myresource, setting the title and body:

Sling Post Servlet

```
<form action="/myresource" method="POST">
<input type="text" name="title">
<textarea name="body">
</form>
```

Sling API CRUD

```
Resource myResource = resourceResolver.getResource("/myresource");
ModifiableValueMap properties = myNode.adaptTo(ModifiableValueMap.class);
properties.put("title", {TITLE});
properties.put("body", {BODY});
resourceResolver.commit();
```

Create New Resource

Create a new resource below /myresource

Sling Post Servlet

```
<form action="/myresource/" method="POST">
<input type="text" name="dummy">
</form>
```

Sling API CRUD

```
Resource myResource = resourceResolver.getResource("/myresource");

Map<String,Object> properties = new HashMap<String,Object>();

properties.put("jcr:primaryType", "nt:unstructured");

properties.put("sling:resourceType", "myapp/components/mytype");

Resource dummy = resourceResolver.create(myResource, "dummy", properties);

resourceResolver.commit();
```

Remove a Property

Remove the property title

Sling Post Servlet

```
<form action="/myresource" method="POST">
<input type="hidden" name="title@Delete">
</form>
```

Sling API CRUD

```
Resource myResource = resourceResolver.getResource("/myresource");
ModifiableValueMap properties = myResource.adaptTo(ModifiableValueMap.class);
properties.remove("title");
resourceResolver.commit();
```

Copy a Resource

Copy the resource /myresource to /myresource2

Sling Post Servlet

```
<form action="/myresource" method="POST">
<input type="hidden" name=":operation" value="copy">
<input type="hidden" name=":dest" value="/myresource2">
<input type="hidden" name=":replace" value="true">
</form>
```

Sling API CRUD

```
Map<String,Object> properties = myResource.adaptTo(ValueMap.class);
Resource myResource2 = resourceResolver.create(null, "myresource2", properties);
resourceResolver.commit();
```

Move a Resource

Move the resource /myresource2 to /myresource3

Sling Post Servlet

```
<form action="/myresource2" method="POST">
  <input type="hidden" name=":operation" value="move">
  <input type="hidden" name=":dest" value="/myresource3">
  </form>
```

Sling API CRUD

```
Resource myResource2 = resourceResolver.getResource("/myresource2");
Map<String,Object> properties = myResource2.adaptTo(ValueMap.class);
Resource myResource3 = resourceResolver.create(null, "myresource3", properties);
resourceResolver.delete(myResource2);
resourceResolver.commit();
```

Setting non-String Value

Set the property date to a particular date

Sling Post Servlet

```
<form action="/myresource3" method="POST">
 <input type="text" name="date" value="2008-06-13T18:55:00">
 <input type="hidden" name="date@TypeHint" value="Date">
```

Sling API CRUD

```
Resource myResource3 = resourceResolver.getResource("/myresource3");
Calendar calendar = [SOME_DATE];
ModifiableValueMap properties = myResource3.adaptTo(ModifiableValueMap.class);
properties.put("date", calendar);
resourceResolver.commit();
```

Delete a Resource

Delete the resource /myresource

Sling Post Servlet

```
<form action="/myresource" method="POST">
<input type="hidden" name=":operation" value="delete">
</form>
```

Sling API CRUD

```
Resource myResource = resourceResolver.getResource("/myresource");
resourceResolver.delete(myResource);
resourceResolver.commit();
```

Value Class Support



📵 Please note, this information is specific to the Sling JCR Resource implementation provided by the Apache Sling project. Other implementations may have different value class support.

The Classes implementing the following types are supported directly when setting properties:

- Calendar
- InputStream
- Node
- BigDecimal
- Long
- Short
- <u>Integer</u>
- Number
- Boolean

As well as the corresponding primitive types. Any object which implements the Serializable interface will be serialized and the result of the serialization will be saved as a binary value for the property.

Last modified by Bertrand Delacretaz on Fri Sep 29 15:36:08 2017 +0200

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