

Forms

Contents

- [Overview](#)
- [Forms](#)
- [Fields](#)
- [Form Fields](#)
- [Schemas](#)
- [Form Resources](#)
 - [Overview](#)
 - [Designing Form Resources](#)
 - [API Methods](#)

Overview

OpenMRS provides `Form`, `Field` and `FormField` objects through the API as well as schema creation in the webapp. [FormEntry Module](#), [HTML Form Entry Module](#) and [XForms Module](#) all utilize the built-in `Form` infrastructure. OpenMRS also provides API calls to store serializable resources or metadata on any given `Form` instance.

Forms

Fields

Form Fields

Schemas

Form Resources



Terms To Understand



Unknown macro: 'html'

Overview

`FormResource` objects can be of any [Custom Datatype](#). Only one `FormResource` will be stored for any combination of `Form` object and `name` (property on the `FormResource`). In other words, there can only be one `formentry.xslt` `FormResource` for any given `Form`. If `FormService.saveFormResource()` is asked to save a new `formentry.xslt` `FormResource` on a `Form` that already has a `formentry.xslt` `FormResource`, the `FormResource` already stored in the database will be purged before saving the new one.

A `FormResource` is both a `CustomValueDescriptor` and a `SingleCustomValue`. This means that any given `FormResource` not only holds data but also specifies the kind of data in it, similar to how `GlobalProperty` objects work in OpenMRS 1.9+. Form edit pages provide a tab to manage `FormResource` objects on that `Form`.



TODO: screenshot(s) of Form Resource management

Designing Form Resources

Working with `FormResource` objects should follow the same methodology as working with `GlobalProperty` objects. Following is a unit test from `FormServiceTest` to show how this is done, using a basic `DateDatatype`:

```

@Test
@Verifies(value = "should persist a FormResource", method = "saveFormResource()")
public void saveFormResource_shouldPersistAFormResource() throws Exception {
    Form form = Context.getFormService().getForm(1);
    FormResource resource = new FormResource();
    resource.setForm(form);
    resource.setName("Start Date");
    resource.setDatatypeClassname("org.openmrs.customdatatype.datatype.DateDatatype");
    Date expected = new SimpleDateFormat("yyyy-MM-dd").parse("2011-10-16");
    resource.setValue(expected);

    Context.getFormService().saveFormResource(resource);
    Integer resourceId = resource.getFormResourceId();

    Context.clearSession();

    FormResource actual = Context.getFormService().getFormResource(resourceId);
    Assert.assertNotNull(actual);
    Assert.assertEquals(expected, actual.getValue());
}

```

API Methods

The OpenMRS FormService API must be used to manipulate FormResources. The following API calls are available from `org.openmrs.api.FormService`:

```

public FormResource getFormResource(Integer formResourceId);
public FormResource getFormResourceByUuid(String uuid);

/* usages: */
FormResource xslt = getFormResource(1);
FormResource xslt = getFormResourceByUuid("1e67efde-fe91-4802-8f8e-ba34d01cc926");

```

Common API retrieval methods for FormResources.

```

public FormResource getFormResource(Form form, String name);

/* usage: */
FormResource xslt = getFormResource(form, "formentry.xslt");

```

Saves a FormResource. The name property of the FormResource must be unique and should refer to a particular service or module claiming ownership of the resource and the use of that resource. Only one resource for each name will ever be saved on a given Form.

```

public FormResource saveFormResource(FormResource formResource);

```

Saves a FormResource. The name property of the FormResource must be unique and should refer to a particular service or module claiming ownership of the resource and the use of that resource. Only one resource for each name will ever be saved on a given Form.

```
public void purgeFormResource(FormResource formResource);
```

Permanently removes a FormResource.

```
public Collection<FormResource> getFormResourcesForForm(Form form);
```

Retrieves all FormResources for a given form.

```
public Set<String> getFormResourceOwners(Form form);
```

Retrieves all unique owners for resources for a given form.