

# IMPLEMENT ACTIONS VALIDATION

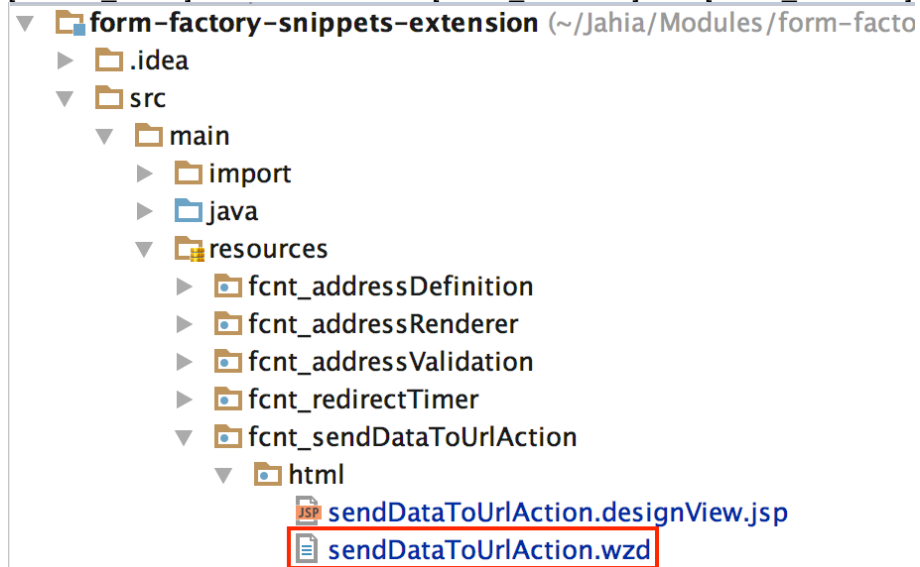
FORM FACTORY V2

The following guide will demonstrate how to add a validation to any action field that is in the action edit panel.

To use the action validator you are required to have a directive and view associated with the action (more information about this can be found in the Custom Action Guide).

Locate the wzd file under:

`[module_name]/src/main/resources/[action_definition]/html/[action_definition].wzd`



1. In the action's wzd file, add a **requiredFields** property within the properties object.

```
action {
  label "Send Data To Url"
  wizard "<ff-send-data-to-url view-type='designView'></ff-send-data-to-url>"
  properties {
    actionname "senddatatourl"
    sendto ""
    parametername "formData"
    requiredFields {
      values "sendto":"any", "field_name":"validation_type", ...
    }
  }
}
```

The **requiredFields** object has the above structure, where **values** contains **key value** pairs of the field name property and it's expected validation type.

The current supported validation types are:

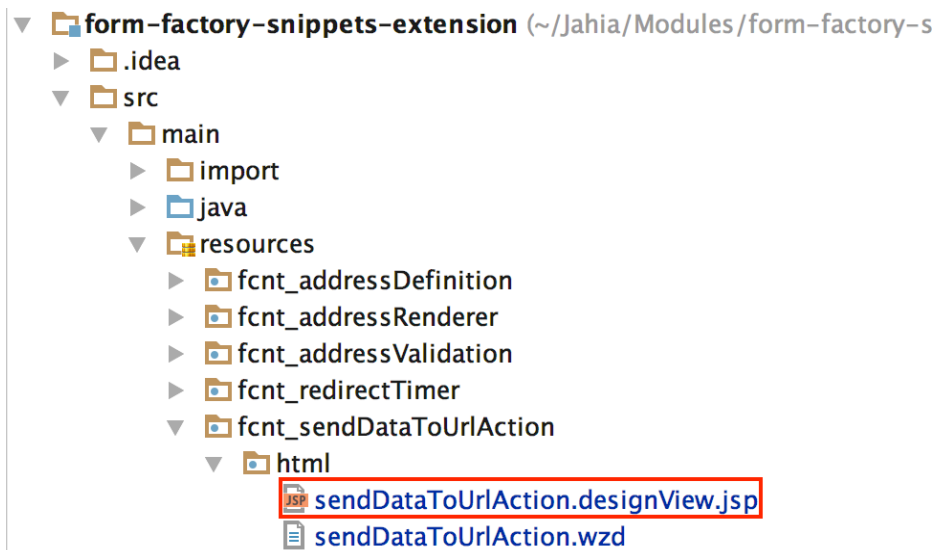
- **number**
- **positiveNumber**
- **any** (The only condition is that the field is not empty)
- **email**

2. Add the validation directive(**ff-action-validator**) to the input field in the following form:

Using the previous **sendDataToUrlAction.designView.jsp** example,

Located in:

[*module\_name*]/src/main/resources/[*action\_definition*]/html/[*action\_definition*].designView.jsp



replace:

```
<div class="col-sm-12">
  <label message-key="fcnt_sendDataToUrlAction.designView.label.sendDataToUrl"></label>
  <input type="text" class="form-control" ng-model="action.sendto">
</div>
```

with:

```
<div class="col-md-12 form-group"
  ng-class="{ 'has-error': !isFieldValid('sendto') }">
  <label class="control-label"
    message-key="fcnt_sendEmailAction.designView.label.to"></label>
  <input type="text"
    class="form-control"
    ng-model="action.sendto"
    field-name="sendto"
    validation-type="any"
    ff-action-validator/>
  <span class="help-block" ng-show="!isFieldValid('sendto')">
    <span message-key="ff.label.required"></span>
  </span>
</div>
```

The validator requires 2 additional attributes, these attributes are :

- **field-name**(matching the key in the wzd file)
- **validation-type**(matching the value in the wzd file)

In order to verify whether or not the field is valid, the **isFieldValid()** function can be used in the view. It takes the field name as a *parameter* of the associated field.

A third optional attribute(**ng-model-options**) can be specified on the input field to control when and at what interval the validator executes. A default **ng-model-options** is provided if one is not specified:

```
ng-model-options="{  
  updateOn: 'default blur',  
  debounce: {  
    'default': 500,  
    'blur': 0  
  }  
}"
```

More information on **ng-model-options** can be found at:  
<https://docs.angularjs.org/api/ng/directive/ngModelOptions>

The message displayed in the toast when an action is valid/invalid, can be overridden by defining the following resource bundle keys respectively:

```
angular.ffFormBuilderDirective.message.invalidActionFields=Action '{0}' contains invalid field(s)  
angular.ffFormBuilderDirective.message.validActionFields=Action '{0}' fields are valid
```

Note: {0} is used to insert the name(label defined in the wzd file) of the validated action.