

Using CalendarView with date time intervals with custom validation for intervals

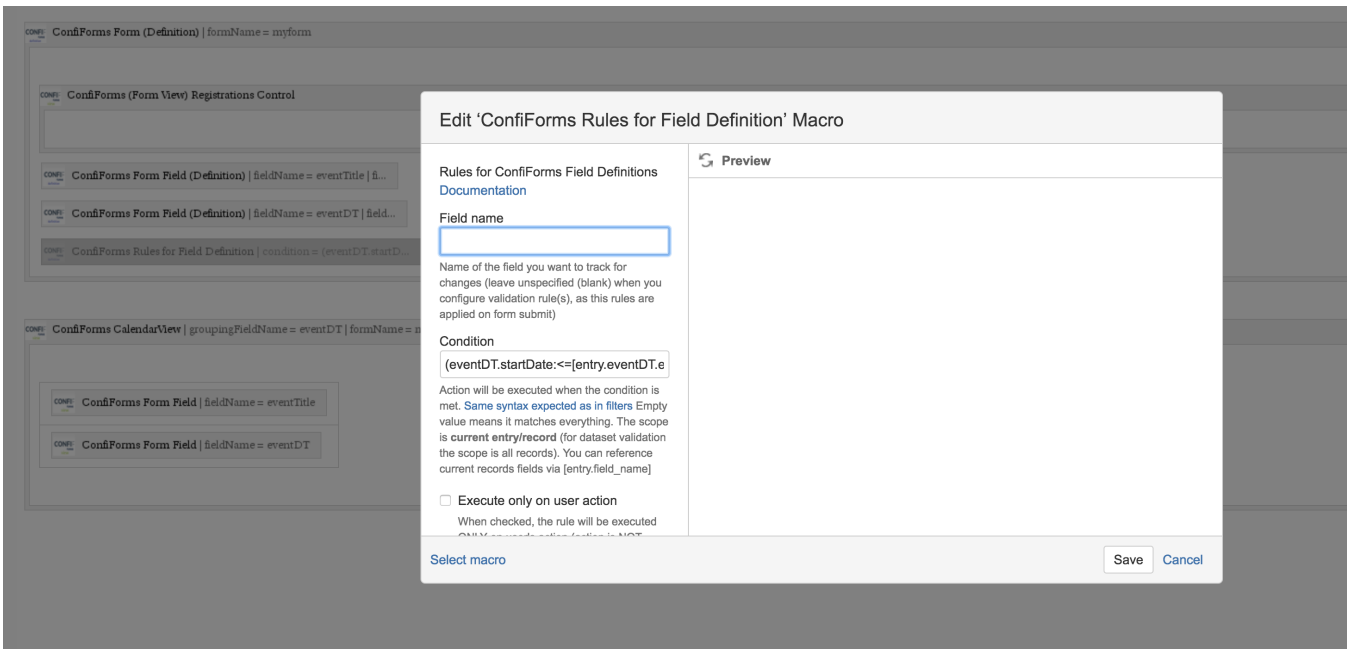
This tutorial shows how to design a form with custom validation rule to ensure date time intervals registered with this form dont overlap

Here is what we have in our form - just 2 fields

- one of type text to hold a title for our event
- date/time interval field to hold an event's interval



We want to ensure the events dont overlap, so we will add a custom validation rule to our form



With action "Validation rule" against dataset

Action to execute *

Validation rule (dataset) 

Choose the action type to perform, see [more details on each action type in our documentation](#)

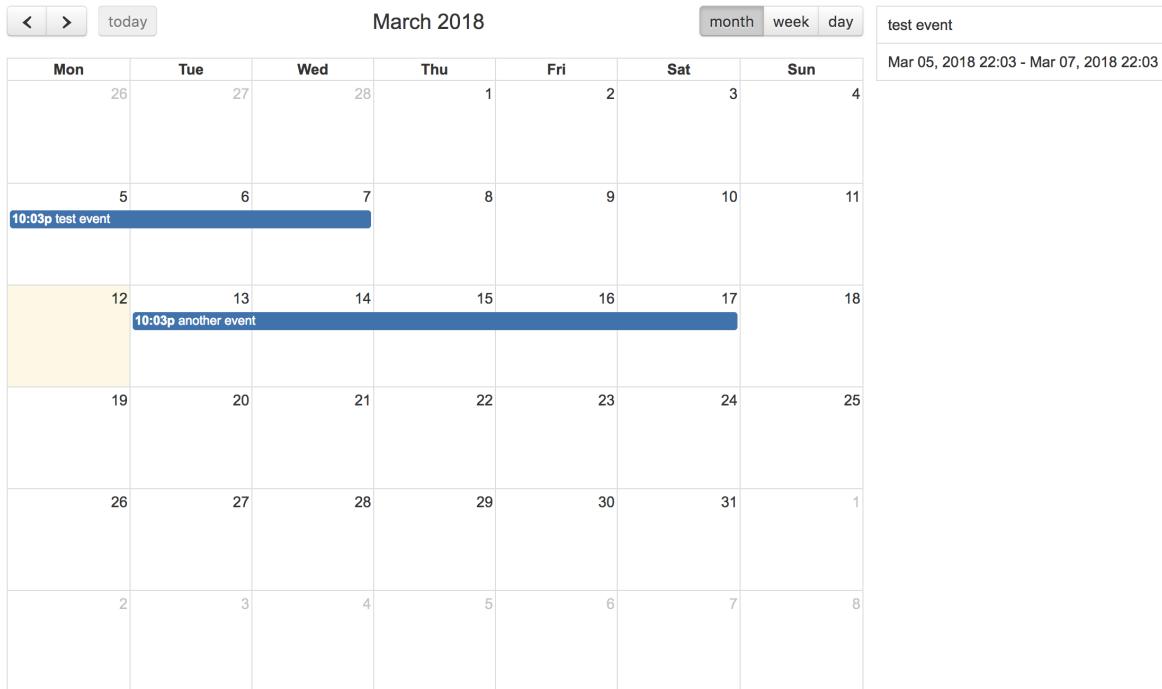
Message to show when validation rule matches

Dates overlap

And condition to check that intervals dont overlap like this

```
(eventDT.startDate:<=[entry.eventDT.endDate] AND eventDT.endDate:>=[entry.eventDT.startDate] AND !id:[entry.id])
```

We will show the form data in a CalendarView like this:



This is done by simply configuring CalendarView to use our form and have a calendar built using "eventDT" field

CONF: ConfiForms CalendarView | groupingFieldName = eventDT | formName = myform | eventTitleFieldName = [entry.eventTit...

CONF: ConfiForms Form Field | fieldName = eventTitle

CONF: ConfiForms Form Field | fieldName = eventDT

When you try to register an event with dates overlapping the ones we have already registered an error message is shown (the one we have defined in our custom validation rule)

!

- Dates overlap

Event title

new event

Event date/time

Mar 06, 2018 22:11

-

Mar 09, 2018 22:11

Save
Close

Full storage format for this demo can be found below

```

<ac:structured-macro ac:macro-id="e4550d98-9658-494f-bbb1-b7aa117d6109" ac:name="conform" ac:schema-version="1">
  <ac:parameter ac:name="formName">myform</ac:parameter>
  <ac:rich-text-body>
    <ac:structured-macro ac:macro-id="dc6d4e8e-a206-4c3c-8593-db4b741d7d29" ac:name="conform-entry-register" ac:schema-version="1">
      <ac:rich-text-body>
        <p>
          <br/>
        </p>
      </ac:rich-text-body>
    </ac:structured-macro>
    <p>
      <ac:structured-macro ac:macro-id="2c43ece0-0bc9-4942-a68b-41f0f4a7b4b1" ac:name="conform-field-definition" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">eventTitle</ac:parameter>
        <ac:parameter ac:name="fieldLabel">Event title</ac:parameter>
        <ac:parameter ac:name="type">text</ac:parameter>
      </ac:structured-macro>
    </p>
    <p>
      <ac:structured-macro ac:macro-id="07050d93-1494-4a91-9ac3-f597641ff12b" ac:name="conform-field-definition" ac:schema-version="1">
    
```

```

    <ac:parameter ac:name="fieldName">eventDT</ac:parameter>
    <ac:parameter ac:name="fieldLabel">Event date/time</ac:parameter>
    <ac:parameter ac:name="type">datetimeinterval</ac:parameter>
  </ac:structured-macro>
</p>
<p>
  <ac:structured-macro ac:macro-id="720b12d8-9737-47f3-926b-8089db7ffe87" ac:name="confiform-field-
definition-rules" ac:schema-version="1">
    <ac:parameter ac:name="condition">(eventDT.startDate:&lt;=[entry.eventDT.endDate] AND eventDT.endDate:
&gt;=[entry.eventDT.startDate] AND !id:[entry.id])</ac:parameter>
    <ac:parameter ac:name="fieldName">Dates overlap</ac:parameter>
    <ac:parameter ac:name="action">Validation rule dataset</ac:parameter>
  </ac:structured-macro>
</p>
</ac:rich-text-body>
</ac:structured-macro>
<ac:structured-macro ac:macro-id="7aa3b59e-ca84-474d-97a3-5b0a4a69cadb" ac:name="confiform-calendar" ac:schema-
version="1">
  <ac:parameter ac:name="eventTitleFieldName">[entry.eventTitle]</ac:parameter>
  <ac:parameter ac:name="groupingFieldName">eventDT</ac:parameter>
  <ac:parameter ac:name="formName">myform</ac:parameter>
  <ac:rich-text-body>
    <table class="wrapped">
      <colgroup>
        <col/>
      </colgroup>
      <tbody>
        <tr>
          <td>
            <div class="content-wrapper">
              <p>
                <ac:structured-macro ac:macro-id="921df724-5563-448e-b93c-ea221ae59e06" ac:name="confiform-
field" ac:schema-version="1">
                  <ac:parameter ac:name="fieldName">eventTitle</ac:parameter>
                </ac:structured-macro>
              </p>
            </div>
          </td>
          <td>
            <div class="content-wrapper">
              <p>
                <ac:structured-macro ac:macro-id="0858cddd-f7b2-41b9-a2b5-ab4caa795495" ac:name="confiform-
field" ac:schema-version="1">
                  <ac:parameter ac:name="fieldName">eventDT</ac:parameter>
                </ac:structured-macro>
              </p>
            </div>
          </td>
        </tr>
      </tbody>
    </table>
  </ac:rich-text-body>
</ac:structured-macro>

```