

MetWare screenshot: spectrum support

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Metware, Xml, Java

Abstract

Not visually attractive, but that will be solved when Steffen gets his hands on it. For now, I'm happy with a table formatting.

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chem-bla-ics

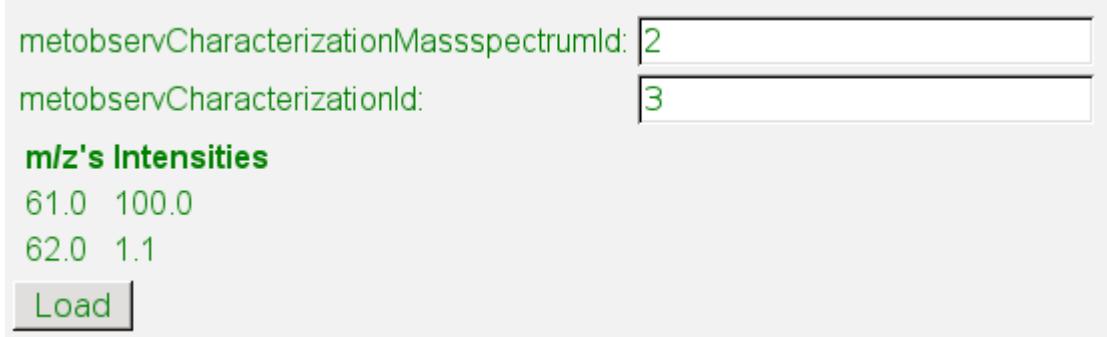
Not visually attractive, but that will be solved when Steffen gets his hands on it. For now, I'm happy with a table formatting. Reason: it uses XML Schema to define a dataType, which is recognized by our code generators in MetWare (see also [this presentation](#)), and used to create a easy to use Java API, which, in turn, can be used in this JSF snippet:

```
<h:DataTable  
value="#{metobservCharacterizationMassspectrum.spectralPoints.points}"  
var="specpoint">  
  <h:column>  
    <f:facet name="header"><h:outputText value="m/z's"/></f:facet>  
    <h:outputText value="#{specpoint.mz}"/>  
  </h:column>  
  <h:column>  
    <f:facet name="header"><h:outputText value="Intensities"/></f:facet>  
    <h:outputText value="#{specpoint.intensity}"/>  
  </h:column>  
</h:DataTable>
```

The `<DataTable> @value` points (via the `faces-config.xml`) to the `MetobservCharacterizationMassspectrumBean`, which has a `getSpectralPoints()` method (autocreated from the `<skos:Concept> SpectralPoints`, which has a convenience method `List<SpectralPoint> getPoints()`.

`SpectralPoint` in turn has the methods `getIntensity()` and `getMz()` also used in the above JSF snippet. For convenience, `SpectralPointArray` also has two other methods: `double[] getIntensities()` and `double[] getMzs()` (which I'll have to rename to reuse the code for NMR support:).

So, here's the outcome:



The screenshot shows a JSF page with a form. The first two fields are text inputs: 'metobservCharacterizationMassspectrumId' with value '2' and 'metobservCharacterizationId' with value '3'. Below these is a bold green header 'm/z's Intensities'. Underneath, there are two rows of data: '61.0 100.0' and '62.0 1.1'. At the bottom left is a green 'Load' button.

Final note, given the dataType, the MetWare bean also has the logic to convert the data back and forth into a SQL serialization, which may eventually use base64 encoding, but currently looks like `61.0,100.0;62.0,1.1`, as defined by the regular expression of the XSD dataType for `spectralPointArray`.