

Adding custom narratives

OpenMRS FHIR module support for adding custom narratives which can define through Thymeleaf HTML based syntax[1]

Configuring FHIR Module to support custom narratives

We have define two Settings (formerly Global Properties from 1.8 downwards) within the module to enable custom narratives. Once they have cconfigured. servlet container need to be restarted.

Settings (formerly Global Properties from 1.8 downwards)	Detailss
fhir.isCustomerNarrativesEnabled	To enable custom narratives, this value need to be set to true. By default custom narratives generation is disabled in the server.
fhir.customNarrativePropertiesPath	Once custom narratives enabled, the path of the narratives property file should be specified in here.

Sample Setting (formerly Global Property from 1.8 downwards) configuration screenshot

The screenshot shows a configuration interface with two settings. The first setting is 'fhir.customNarrativePropertiesPath' with a value of 'file:/home/harsha/development/application' and a 'Remove' button. The second setting is 'fhir.isCustomerNarrativesEnabled' with a value of 'true' and a 'Remove' button. Both settings have a description below them: 'Set custom narratives property file path' and 'Set true if you need to enable custom narratives' respectively. There are also double slashes (//) next to the second setting.

Sample custom narratives property file(narratives.properties) content

```
Patient.class=ca.uhn.fhir.model.dstu2.resource.Patient
patient.narrative=file:/home/harsha/development/applications/Patient.html
```

Sample Patient narrative generator file defined using Thymeleaf HTML based syntax

```

<!--/*
This top section is not exported as a part of the Narrative,
it is only present so that this template can be viewed in
a browser.
-->
<html>
  <head>
    <link rel="stylesheet" type="text/css" href="narrative.css"/>
  </head>
  <body>
<!--*/-->
  <div>
    <div class="hapiHeaderText" th:if="{not resource.nameFirstRep.empty}" th:narrative="{resource.nameFirstRep}"/>
    <table class="hapiPropertyTable">
      <tbody>
        <tr th:if="{not resource.identifierFirstRep.empty}">
          <td>Identifier</td>
          <td th:narrative="{resource.identifierFirstRep}"></td>
        </tr>
        <tr th:if="{not resource.addressFirstRep.empty}">
          <td>Address</td>
          <td th:narrative="{resource.addressFirstRep}"></td>
        </tr>
        <tr th:if="{not resource.birthDateElement.empty}">
          <td>Date of birth</td>
          <td><span th:text="{#dates.format(resource.birthDateElement.value,'dd MMMM yyyy')}"></span></td>
        </tr>
      </tbody>
    </table>
  </div>
<!--*/-->
</body>
</html>
<!--*/-->

```

Sample response of Patient resource request

```

<?xml version="1.0" encoding="UTF-8"?>
<Patient xmlns="http://hl7.org/fhir">
  <id value="8b0d0f75-887b-11e4-81b7-f01faf67ac41" />
  <text>
    <status value="generated" />
    <div xmlns="http://www.w3.org/1999/xhtml">
      <div class="hapiHeaderText">
        Mr. John
        <b>PATIENT</b>
        Mr.
      </div>
      <table class="hapiPropertyTable">
        <tbody>
          <tr>
            <td>Identifier</td>
            <td>OpenMRS Identification Number</td>
          </tr>
          <tr>
            <td>Address</td>
            <td>
              <span>555 Johnson Rd.</span>
              <br />
              <span>Apt. 555</span>
              <br />
              <span>Indianapolis</span>
            </td>
          </tr>
        </tbody>
      </table>
    </div>
  </text>

```

```

                <span>IN</span>
                <span>USA</span>
            </td>
        </tr>
        <tr>
            <td>Date of birth</td>
            <td>
                <span>01 January 1975</span>
            </td>
        </tr>
    </tbody>
</table>
</div>
</text>
<identifier>
    <use value="usual" />
    <label value="OpenMRS Identification Number" />
    <system value="urn:uuid:8d793bee-c2cc-11de-8d13-0010c6dff0f" />
    <value value="100-8" />
</identifier>
<identifier>
    <use value="secondary" />
    <label value="Old Identification Number" />
    <system value="urn:uuid:8d79403a-c2cc-11de-8d13-0010c6dff0f" />
    <value value="100" />
</identifier>
<name>
    <use value="usual" />
    <family value="Patient" />
    <given value="John" />
    <prefix value="Mr." />
    <suffix value="Mr." />
</name>
<name>
    <use value="old" />
    <family value="harsha" />
    <given value="kumara" />
</name>
<name>
    <use value="old" />
    <family value="bob" />
    <given value="alice" />
</name>
<name>
    <use value="old" />
    <family value="lisa" />
    <given value="maria" />
</name>
<gender value="male" />
<birthDate value="1975-01-01" />
<deceasedBoolean value="false" />
<address>
    <use value="home" />
    <line value="555 Johnson Rd." />
    <line value="Apt. 555" />
    <city value="Indianapolis" />
    <state value="IN" />
    <postalCode value="46202" />
    <country value="USA" />
</address>
<address>
    <use value="old" />
    <line value="476/B" />
    <line value="Kahanthota road, Arangala" />
    <city value="COLOMBO" />
    <state value="NA" />
    <postalCode value="10" />
    <country value="SL" />
</address>
<active value="true" />
</Patient>

```

(1) - http://jamesagnew.github.io/hapi-fhir/doc_narrative.html