OpenMRS Tags

Commonly used tags for modules

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Review: custom tags

- Reusable components, used in JSPs
- Defined in two ways:
  - **TAG files**: essentially JSP files but can take parameters
  - **Tag handler classes**: Java classes which output HTML, and must be defined in a Tag Library Descriptor (TLD)

OpenMRS tags

- TAG files are stored in */WEB-INF/tags* and use the `openmrs_tag` prefix
- Tag handler classes are in the package `org.openmrs.web.taglib`, declared in the */WEB-INF/taglibs/openmrs.tld* TLD, and use the `openmrs` prefix
- You can see this in */WEB-INF/template/include.jsp*

```
...
<%@ taglib prefix="openmrs" uri="/WEB-INF/taglibs/openmrs.tld" %>
<%@ taglib prefix="openmrs_tag" tagdir="/WEB-INF/tags" %>
```

<openmrs:authentication>

- The simplest tag in the library
- Defines an attribute called `authenticatedUser`
  - The currently authenticated `User`
  - `null` if no-one is authenticated
- For example:

```
<openmrs:authentication />
```
equivalent to...

```
<%
  pageContext.setAttribute("authenticatedUser",
    Context.getAuthenticatedUser());
%>
```
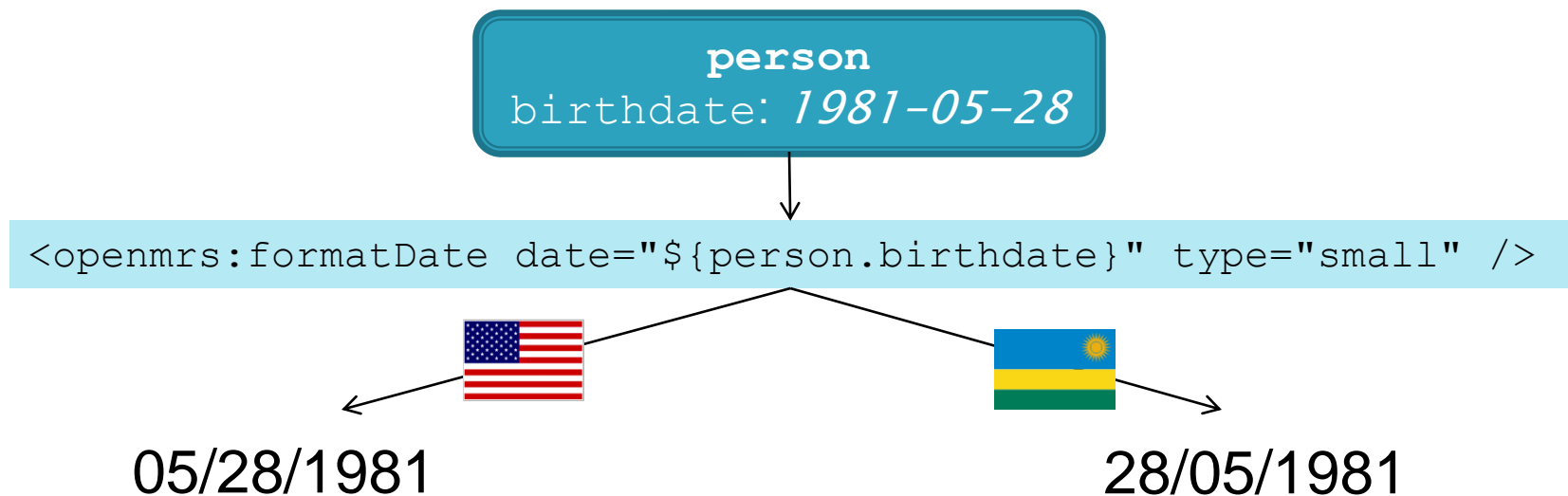
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<openmrs:htmlInclude>

- Used to add references to JavaScript and CSS external files, e.g.

```
<openmrs:htmlInclude file="/scripts/jquery.js" />
```

- Better than using a `<link>` or `<script>` element because:
  - Simpler because it generates the right element based on the file extension
  - Checks for duplicate references

<openmrs:formatDate>

- Every user has a locale, which specifies their language and date format etc.
- This tag ensures that a user sees all dates consistently in their chosen locale, e.g.

person
birthdate: *1981-05-28*

```
<openmrs:formatDate date="${person.birthdate}" type="small" />
```

05/28/1981   28/05/1981

<openmrs_tag:dateField>

- Every user has a locale, which specifies their language and date format etc.
- This tag ensures that a user sees all dates consistently in their chosen locale
- And it displays a popup calendar when clicked, e.g.

```
<openmrs_tag:dateField formFieldName="dob" startValue="${obsDate}" />
```
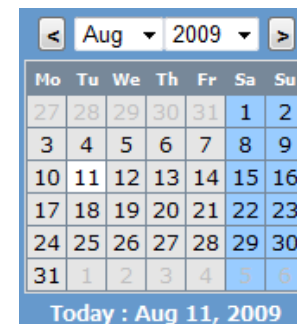
08/11/2009   11/08/2009   CLICK

<	Aug ▼	2009 ▼	>

Mo	Tu	We	Th	Fr	Sa	Su
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

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\<openmrs:fieldGen\>

- Used to keep form fields consistent across different forms and modules etc
- Works with simple types: `String`, `Boolean`, `Integer` etc., as well as OpenMRS types, such as `Patient`, `Concept`, `Drug`, etc.
- Field generation for OpenMRS types is delegated to the JSP files in */WEB-INF/view/fieldGen*

```
<openmrs:fieldGen type="org.openmrs.Patient"
    formFieldName="patient" val="${patient}" />
```

Displays a popup patient search window

<openmrs:hasPrivilege>

- Used to hide page elements if user does not have a required privilege
- Elements to be hidden are put in the tag body, e.g.

```
<openmrs:hasPrivilege privilege="Edit Patients">
  ...
  Page items that user should only be able to see if they
  have the "Edit Patients" privilege
  ...
</openmrs:hasPrivilege>
```

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\<openmrs:require>

- Used to redirect user to login page if they don't have a required privilege

- For example, if we want to redirect users who don't have the "View Patients" privilege…

```
<openmrs:require privilege="View Patients"
        otherwise="/login.htm" redirect="/findPatient.htm" />
```

Sends users to this URL

Once they login, they are redirected back to this URL

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<openmrs:globalProperty>

▸ Used to access global properties, which are name/value pairs stored in the database
  - If `var` is specified, `var` becomes attribute with the property value
  - If not, then property value printed to response

▸ For example...
  - The global property called "concept.weight" stores the ID of the concept to use for patient weight observations
  - This can set as an attribute called `weightConceptId` as follows...

```
<openmrs:globalProperty key="concept.weight" var="weightConceptId"/>
```

References

- TODO…