Integrating DDI 3-based tools with Web Services

Connecting Colectica and eXist-db
Project Introduction

- SND has a XML database-backed DDI 3 storage system
- Colectica has its own DDI 3 storage repository and a DDI 3 editor
- Since both systems talk DDI 3, we should be able to integrate the two systems
Colectica Integration

● Written as a Colectica Addin

○ Navigation Extension

○ Communicate with SND's Web Service
  ■ Get lists of items by type
  ■ Get individual items
## Colectica Integration - Effort

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<tr>
<th>Hours</th>
<th>Lines of Code</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>118</td>
</tr>
</tbody>
</table>
eXist-db

- eXist-db is an Open Source Project licensed under LGPL

- Uses Lucene as an extension index for full text searches

- eXide. Web based XQuery IDE
eXist-db Web Service

- REST-service created with xQuery script
- Methods: FindItems, GetItem
- Returns DDI3.2 ddi:Fragment elements
Web Service Methods: FindItems

- Used to find items of a specific element type

- Parameters
  - targetType
  - targetTypeParentID
Web Service Methods: GetItem

- Return the element with the specified id

- Parameter
  - id
<table>
<thead>
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<th>Hours</th>
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<tbody>
<tr>
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</table>
eXist-db Code

ddi-exist.googlecode.com
Future Possibilities

- Support writing, not just reading
- Integrate with Colectica Portal
Thank You

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