Deep Blue / Michigan Research Experts
Integration, Next Century Library Share Summit

Welzenbach, Rebecca
https://hdl.handle.net/2027.42/148275
http://creativecommons.org/licenses/by/4.0/

Downloaded from Deep Blue, University of Michigan's institutional repository
Deep Blue / Michigan Research Experts Integration
Rebecca Welzenbach, Research Impact Librarian
Next Century Library Share Summit
November 14, 2018
The Michigan Research Experts Information Architecture

Source: Byrne, Kate and Stephen Cawley. Connections, Collaborations, & Impact: Data-Driven Approaches to Understanding institutional research expertise. Digital Science case study. October 2018 (pending publication)
The Michigan Research Experts
Information Architecture

- **Elements**
  - Research Information Management solution for data collection, curation and enrichment.
  - Profile data claimed or added by UMich researchers is used to automatically populate downstream systems including Dimensions Profiles, UMich Deep Blue Repository and other reporting tools.

- **Dimensions**
  - Discovery and analysis platform for data fed from UMich Elements system.
  - Currently includes:
    - 4,859 experts
    - 260,556 publications
    - 17,640 grants
    - 11,901 patents
    - 1,895 clinical trials

- **Deep Blue**
  - Institutional Repository (Dspace)

- **Shibboleth SSO**
  - User authentication to support single sign on

- **External Data Feeds**
  - Dimensions
  - Scopus
  - Google
  - Web of Science
  - arXiv.org
  - CrossRef
  - Europe PubMed Central
  - CINii
  - PubMed
  - RePEc
  - dblp

This is a diagram showing the underlying information architecture and connections behind Michigan Research Experts.
RT2 - Repository Integration

Add a to-do

- Please confirm all possible ways of how content is currently ingested into the IR. [2 comments] (Completed by Jim Ottaviani on 12 Sep)
- If you have an existing IR, how many items does it currently contain? [3 comments] (Completed by Jim Ottaviani on 12 Sep)
- What repository platform is your IR based on? [2 comments] (Completed by Igor Kondrashov on 11 Sep)
- Do you require one way or bidirectional sync? [2 comments] (Completed by Igor Kondrashov on 11 Sep)
- If you use a third party to host or maintain your IR please confirm provider. [1 comment] (Completed by Igor Kondrashov on 11 Sep)
- Do you maintain the IR server in-house or is it a hosted service? [2 comments] (Completed by Igor Kondrashov on 11 Sep)

RT2 - Preparation

Add a to-do

- Confirm that Deep Blue folks can log in to their Elements accounts. [1 comment] (Completed by Rebecca Welzenbach on 11 Oct)
- Review repository tools integration documentation. [8 comments] (Completed by Jim Ottaviani on 2 Oct)
- Bicamp training for the Deep Blue Team. [Jim Ottaviani, Martha Stult, Jose Blasco, Becky Welzenbach] We want to make sure we’re following best practices and that we assign appropriate roles (who checks off that tasks are complete, etc.) - Not sure who to assign this to, so starting w/ Igor. Please reassign as appropriate. Or, if a full session doesn’t seem needed, perhaps we can confirm practices and roles on our next weekly call. (Completed by Igor Kondrashov on 25 Sep)
- Create a table of all the metadata types in DeepBlue. [2 comments] (Completed by Igor Kondrashov on 25 Sep)
- Configure the repository API. [5 comments] (Completed by Igor Kondrashov on 25 Sep)
- Provide details of current repository software. [1 comment] (Completed by Igor Kondrashov on 30 Aug)
- Ports and Firewalls. [Completed by Igor Kondrashov on 10 Aug]
- Request Repository Licence from Symplicity. [Completed by Igor Kondrashov on 10 Aug]

RT2 - Harvest Crosswalks

To-do lists

- Build the crosswalk map file (at least 0.5 day per object type intended for harvest) [8 comments] (Evelina Buicic - Fri, Nov 2)
- Take full backup of Elements, enable verbose logging, limit volume of data for testing phase (1 day) [Evelina Buicic - Mon, Nov 5]
- Test and review crosswalk (1 week) [Jim Ottaviani - Mon, Nov 12]
- Adjust and retest crosswalk (1 week) [Evelina Buicic - Mon, Nov 19]
- Enable harvest (1 day) [Jim Ottaviani - Tue, Nov 20]

Add a to-do

RT2 - Deposit Crosswalks

- Identify functionality required for crosswalks [Jim Ottaviani - Tue, Nov 27]
- Build the crosswalk map file (at least 0.5 day per object type intended for deposit) [Evelina Buicic - Tue, Dec 4]
- Take full backup of Elements, enable verbose logging, limit volume of data for testing phase (1 day) [Evelina Buicic - Wed, Dec 5]
- Test and review crosswalk (1 week) [Jim Ottaviani - Mon, Dec 10]
- Adjust and retest crosswalk (1 week) [Evelina Buicic - Thu, Dec 13]
- Enable deposit (1 day) [Jim Ottaviani - Fri, Dec 14]

Add a to-do
<table>
<thead>
<tr>
<th>Underlying field in Elements</th>
<th>data type</th>
<th>Default mapping field usage</th>
<th>Default source field in Repository</th>
<th>object/item type (internal values) -&gt;</th>
<th>artefact</th>
<th>book</th>
</tr>
</thead>
<tbody>
<tr>
<td>title</td>
<td>text</td>
<td>Title</td>
<td>dc.title</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>abstract</td>
<td>text</td>
<td>Abstract</td>
<td>dc.description.abstract</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>authors</td>
<td>person-list</td>
<td>Authors</td>
<td>dc.contributor.author</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>author-url</td>
<td>url</td>
<td>Author URL</td>
<td>[no default mapping]</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>editors</td>
<td>person-list</td>
<td>Editors</td>
<td>dc.contributor.editor</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>series</td>
<td>text</td>
<td>Series</td>
<td>dc.relation.ispartofseries</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>edition</td>
<td>text</td>
<td>Edition</td>
<td>[no default mapping]</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>volume</td>
<td>text</td>
<td>Volume</td>
<td>[no default mapping]</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>pagination</td>
<td>pagination</td>
<td>Pagination</td>
<td>[no default mapping]</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>publisher</td>
<td>text</td>
<td>Publisher</td>
<td>dc.publisher</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>publisher-url</td>
<td>url</td>
<td>Publisher URL</td>
<td>[no default mapping]</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>place-of-publication</td>
<td>text</td>
<td>Place of publication</td>
<td>[no default mapping]</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>publication-date</td>
<td>date</td>
<td>Publication date</td>
<td>dc.date.issued</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>isbn-10</td>
<td>isbn-10</td>
<td>ISBN-10</td>
<td>dc.identifier.isbn</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>isbn-13</td>
<td>isbn-13</td>
<td>ISBN-13</td>
<td>dc.identifier.isbn</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>doi</td>
<td>doi</td>
<td>DOI</td>
<td>[no default mapping]</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>medium</td>
<td>text</td>
<td>Medium</td>
<td>dc.format.medium</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
<tr>
<td>publication-status</td>
<td>choice</td>
<td>Status</td>
<td>[no default mapping]</td>
<td>[as default]</td>
<td>[as default]</td>
<td>[as default]</td>
</tr>
</tbody>
</table>
The Michigan Research Experts Information Architecture

Source: Byrne, Kate and Stephen Cawley. Connections, Collaborations, & Impact: Data-Driven Approaches to Understanding institutional research expertise. Digital Science case study. October 2018 (pending publication)