Doing DSpace Differently

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Digital Development Team
The University of Auckland Library
Introduction

- Two talks
  - Creative Configuration with Minimal Coding
  - Breaking out of DSpace
Creative Configuration with Minimal Coding
Archive of Māori & Pacific Music
Archive of Māori & Pacific Music

Custodians of cultural content

Mixed levels of access

~45,000 mp3s

~9,000 physical media objects
Archive of Māori & Pacific Music

Stream audio & video

Navigate relationships:

Physical Media
Performances
Performers
Affiliations
ItemAdaptor

isPartOf reference in DRI...

<referenceSet rend="relations" type="detailList">
  
  <head>This item is part of the following resource(s)</head>

  <reference repositoryID="id" type="DSpace Collection"
    url="/metadata/handle/id/55797/mets.xml"/>

  <reference repositoryID="id" type="DSpace Item"
    url="/metadata/handle/123456789/12345/mets.xml"/>

</referenceSet>
Waiata tangi

Performance Item (Song)

First lines from recording:
E pa to hau he wini raro
He homai aroha

<table>
<thead>
<tr>
<th>Location</th>
<th>New Zealand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accession Number</td>
<td>72/214.11</td>
</tr>
</tbody>
</table>

Notes:
Ancient Maori Waiata; McL 58 NM 71

Files in this item
<table>
<thead>
<tr>
<th>Files</th>
<th>Size</th>
<th>Format</th>
<th>View</th>
</tr>
</thead>
<tbody>
<tr>
<td>There are no files associated with this item.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This item is part of the following resource(s)
- Performance Items
- 72/214: 72/214 WAIATA 3 NZBC
  MURU, Selwyn (NZBC)

...and the template renders it
Treat people like objects

This item is performed by the following people

- **Kim SHEPHERD** (1983 - )
  Affiliations: University of Auckland
  Also known as: K. Michael SHEPHERD; K M Shepherd

- **Nigel CHAMPION**
  Affiliations: University of Auckland
  Also known as: N Champion
Treat people like objects

Disclaimer
Don’t take moral advice from software developers
AJAX + Discovery

No Java!

Search other Repositories

Solr is easy
Open Source Java project

RTMP (Flash) streaming

Wire in services with Spring
DSpaceStreamService
Doesn’t touch assetstore
Open Access only
Search Results

Now showing items 1-6 of 6

81/034.01: **Competition performance**
Taniwharau (Waikato A) (08 Feb 1981)

VD0018.01: **Competition performance**
Taniwharau (Waikato A) (08 Feb 1981)

VD0018.02: **Competition performance**
Te Whare Wananga o Waikato (Waikato B) (08 Feb 1981)

81/035.01: **Competition performance**
Te Whare Wananga o Waikato (Waikato B) (08 Feb 1981)
**WARNING: Live demonstration**

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<th>DateStmp</th>
<th>Name</th>
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<td>33247f80</td>
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<td>atapi.sys</td>
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<td>3324804a</td>
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<td>31ec6c9a</td>
<td>floppy.sys</td>
</tr>
</tbody>
</table>
What did we learn?

DRI isn’t scary

Solr is easy and powerful

Secure RTMP streaming is possible without modifying Dspace

Curators & users want different UIs
Breaking out of DSpace
• The problem we had to solve
  o Disparate collections, each with different access requirements
  o Managed in different systems
  o Upgrade nightmare
  o No formal links to digital objects
  o Discovery via Primo
The context
  - Large University library
  - 3 experienced DSpace developers
  - Fast delivery required
  - Needs to scale: 300,000 items so far (6 collections)
  - Read-only customisable views
  - Need a 'reproducible product'
Three levels to the 'product' 

1. Collection Management
2. End-User UI
3. Discovery
1) Collection management

- Vanilla DSpace
- Collections
  - Delegated administrators (if required)
- Import
  - Via CSV (less than 1,000 items)
  - Via batch import (more than 1,000 items)
2) User interface

- Integrates using the DSpace Discovery solr service
- 'Skylight' user interface
  - Lightweight
  - Developed in less than six weeks
  - PHP MVC
  - Faceted search, simple search, advanced search
  - No fighting with the repository
  - Easy to develop - no admin functions / authZ problems
  - One installation, multiple configuration based on URL
  - Themes
3) External discovery

- Lightweight OAI-PMH proxy on top of DSpace's OAI-PMH
  - Rewrites URLs to point back to skylight
  - Makes use of DSpace's sets
Skylight demo
Other uses

- Customised user interfaces for specific collections
  - #or11 tweets with MIT Simile timeline widget

- Proxy for other repositories
  - Collections held in DigiTool
SkylightUI project

• Open source
• http://skylightui.org/
• Can sit on top of any solr index
Any questions?
Photo/Image Attributions

- Māori and Pacific Island performers c/- AMPM homepage: http://www.library.auckland.ac.nz/ampm
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