

LD4PE Project Toolkit Review

IAKM 61098

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- ***LD4PE Toolkit.*** An openly available, web-based tool set to support the: (a) generation of RDF metadata describing learning resources; and (b) creation of learner trajectory maps expressing curricular structures or personal learning journeys superimposed over the competency framework; ([Source: LD4PE](#))
- Dr. Marcia Zeng

LD4PE Project Toolkit Review

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LD4PE Toolkit Findability (From website)

- Potential little to no use of toolkit. Where is it? Search terms used on the website search tool: LRMI, toolkit, LD4PE toolkit, LRMI editor, etc. None linked to application.

Search results for: LRMI editor

LRMI editor



Need a new search?

If you didn't find what you were looking for, try a new search!

Search ...




How are the resource descriptions and the competency framework being created?

By Stuart Sutton  | October 15th, 2015

As part of the project, the team has developed a new toolkit of AngularJS editors for creating learning resource descriptions using an application profile of [...]

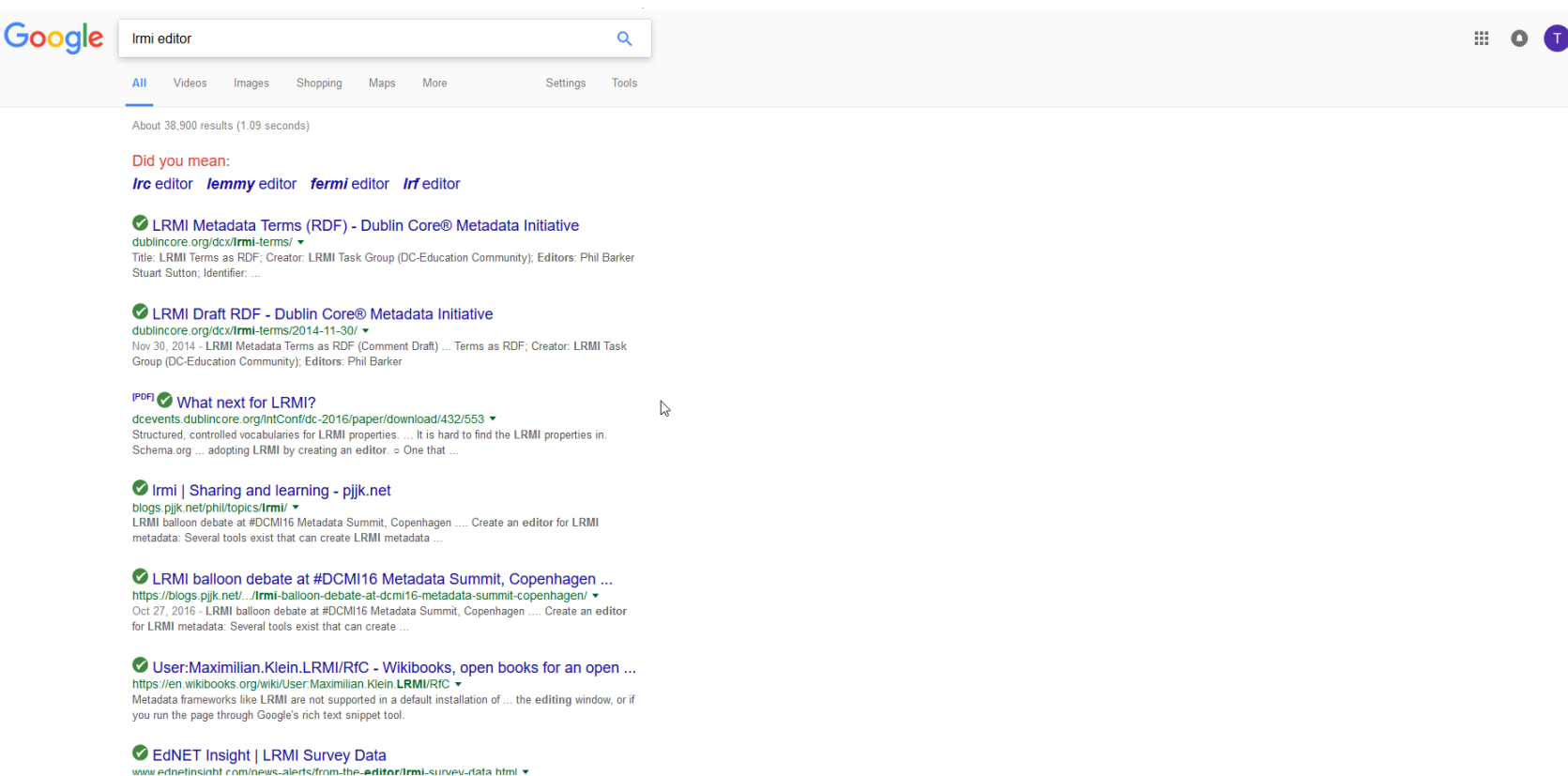
Briefing #4: LD4PE Overview

By Stuart Sutton  | August 1st, 2015

LD4PE Overview–Briefing #4 URL: <http://explore.dublincore.net/briefing-papers/ld4peoverview/> Creator: Stuart A. Sutton (Information School, University of Washington) Last Update: 2015-08-01 Licensed under a Creative Commons Attribution 4.0 International [...]

LD4PE Toolkit Findability (SEO)

- Potential little to no use of toolkit. Where is it? Used same searches performed on LD4PE website and conducted several Boolean searches.
- Could not find a link to the application from the either Google, Yahoo, and BING (3 most common



LD4PE Toolkit Findability (recommendations)

- LD4PE (A web-based application) toolkit should be findable
 - I. Add Meta description tags to the page (title page tags already exist)
 - II. Ensure to optimize both meta description and title page tags
 - III. Use internal links to link application to and from website

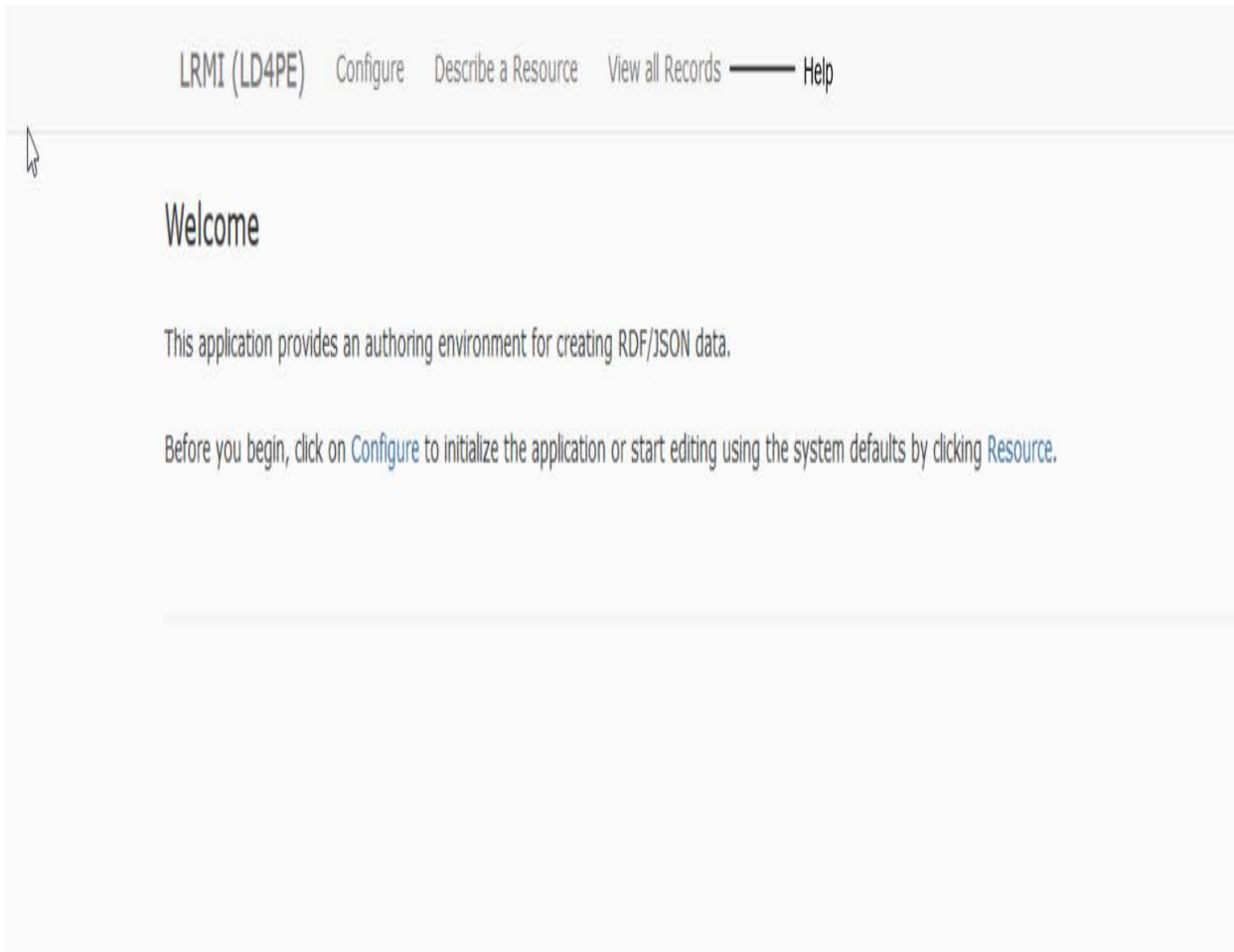
Responsive

- The application is responsive and works well on all mobile devices and platforms (Checked because bootstrap framework not always used properly)
- Tested the entire toolkit on the following platforms, devices, and commonly used browsers within those platforms with no issues:
 - I. Mac: IOS (9 and up), OSX, Sierra | iMac, iPhone, iPad
 - II. Linux: Android (4.1-7), Ubuntu, Mint 18, CentOS | Desktop, Tablet
 - III. Windows: (8.1, 10 pro) | Desktop, Tablet
 - IV. Browsers tested: Firefox (46-50), Dolphin, Safari, Chrome, Chromium, Internet Explorer, Edge, Opera, Konqueror.

(Usability) LD4PE Toolkit (Welcome Page)

HELP IN PRIMARY NAVIGATION

- It is most likely that first time users will need some type of guidance:
 - Provide a help tab in the primary navigation.
 - Help should give a generic overview of the application and provide a list of FAQs.
 - May be helpful to also provide a (Video) tutorial on the help page to demonstrate how to use the application to create and edit RDF/JSON data.



(Usability) LD4PE Toolkit Configure Page

LRMI (LD4PE)

Configure

Describe a Resource

View all Records

Configure

Set various user preferences before you begin. This step is optional - the application has its own system defaults if no user preferences are found.

Translate Interface:

English

Spanish

Korean

Translate application interface.

English (United States)

English (United States)

English (Zimbabwe)

Estonian (Estonia)

Faroese (Faroe Islands)

Filipino (Philippines)

Finnish (Finland)

French (Belgium)

French (Canada)

French (France)

French (Luxembourg)

French (Monaco)

French (Switzerland)

Frisian (Netherlands)

Fulah (Latin, Senegal)

Galician (Galician)

Georgian (Georgia)

German (Austria)

German (Germany)

German (Liechtenstein)

German (Luxembourg)

German (Switzerland)

Greek (Greece)

Greenlandic (Greenland)

Gujarati (India)

Hausa (Latin, Nigeria)

Application Profile:

LRMI (LD4PE)

en-US

en-VG

en-VI

en-ZA

en-ZW

es

es-419

es-AR

es-BO

es-CL

es-CO

es-CR

es-DO

es-EA

es-EC

es-ES

es-GQ

es-GT

es-HN

es-IC

Display Definitions:

Language Tags:

Language:

Locale:

en-US

Change application locale settings (date, currency,...)

URI Configuration:

URN:UUID

Set the base URL and URI generation rules.

LOCALE FIELD

- It is assumed that users will know the “abbreviated” locale settings
- Most web-based and client-based applications do not abbreviate
- Would recommend leaving the abbreviations out and replace with full name like the example provided here

(Usability) LD4PE Toolkit Configure Page

LRMI (LD4PE) **Configure** Describe a Resource View all Records

Configure

Set various user preferences before you begin. This step is optional - the application has its own system defaults if no user preferences are found.

Translate Interface: English Spanish Korean
Translate application interface.

Application Profile: LRMI (LD4PE)
Configure metadata generation to use custom localized profiles i.e. value spaces for particular fields.

Display Definitions: ☒
Show or hide property descriptions on editable forms.

Language Tags: en-US

Language:

Locale:

URI Configuration:

English (United States)
English (United States)
English (Zimbabwe)
Estonian (Estonia)
Faroese (Faroe Islands)
Filipino (Philippines)
Finnish (Finland)
French (Belgium)
French (Canada)
French (France)
French (Luxembourg)
French (Monaco)
French (Switzerland)
Frisian (Netherlands)
Fulah (Latin, Senegal)
Galician (Galician)
Georgian (Georgia)
German (Austria)
German (Germany)
German (Liechtenstein)
German (Luxembourg)
German (Switzerland)
Greek (Greece)
Greenlandic (Greenland)
Gujarati (India)
Hausa (Latin, Nigeria)

en-US
en-ZA
es
es-AR
es-BO
es-CL
es-CO
es-CR
es-DO
es-EC
es-GT
es-HN
es-MX
es-NI
es-PA
es-PE
es-PR
es-PY
es-SY
es-UY

LANGUAGE TAGS FIELD

- Similar to the previous slide, It is assumed that users will know the “abbreviated” language tag settings
- Would recommend leaving the abbreviations out and replace with full name.

(Usability) LD4PE Toolkit Configure Page

LANGUAGE TAGS FIELD (CONT)

- The abbreviated tags could stay on the Describe a Resource Page after tags and locale have been set by user on the Configure Page.
- Two additional options here:
 - Spell out the full description of language tag and locale for consistency.
 - Create an FAQ that briefly explains full name during configuration to abbreviations after configuration

The screenshot shows the 'Configure' page of the LD4PE Toolkit. The top navigation bar includes 'LRMI (LD4PE)', 'Configure', 'Describe a Resource', and 'View all Records'. A blue message box at the top states: 'To begin, enter a URL and press the, "Lookup" button.' Below this is the 'Describe a Resource' section with a 'URL:' input field and a 'Lookup' button. The main content area is divided into two columns. The left column, titled 'General', contains fields for 'Name', 'Description', 'Topical Index', and 'About', each with a red arrow pointing to its 'it:' label. The right column, titled 'Configure', contains settings for 'Translate Interface' (English, Spanish, Korean), 'Application Profile' (LRMI (LD4PE)), 'Display Definitions' (checked), 'Language Tags' (it), 'Language' (Irish, Middle (900-1200)), 'Locale' (it), and 'URI Configuration' (URN:UUID). A red arrow points from the 'Language Tags' field in the 'Configure' section to the 'Description' field in the 'General' section, with a red text box stating: 'Settings configured here can be displayed over to the left as abbreviated'.

(Usability) LD4PE Toolkit (Describe a Resource Page)

The screenshot shows the 'Describe a Resource' page of the LD4PE Toolkit. At the top, there are tabs: 'LRMI (LD4PE)', 'Configure', 'Describe a Resource' (selected), and 'View all Records'. Below the tabs is a light blue instruction box: 'To begin, enter a URL and press the, "Lookup" button.' The main section is titled 'Describe a Resource'. It contains a 'URL:' input field with a 'Q Lookup' button and a placeholder 'URL of the item.' Below this is the 'General' section. It has four main fields: 'Name en-US:' with a placeholder 'The name of the item.', 'Description en-US:' with a placeholder 'A short description of the item.', 'Topical Index:' with a dropdown menu showing 'Fundamentals of Resource Description Framework', 'Identity in RDF', 'RDF data model', and 'Related data models' (placeholder 'The topic of the resource.'), and 'About en-US:' with a placeholder 'The subject matter of the content.' At the bottom, there is an 'In Language:' field set to 'English' with a placeholder 'The language of the content.' and a partially visible 'Competencies' section. Annotations with red arrows point to green '+' icons next to the 'Name', 'Description', and 'About' fields, with a text box stating: 'Mouseover or hover box that lets the user know they can add a field if they click this box'.

ADDEND A FIELD

- It may not be apparent to the user that you can add a field on this page.
- Recommend a mouseover or hover box either above or beside the (green) icon.
- Should be corrected in the General, Competencies, and Rights areas where it is possible to addend a field.
- Should Activate when using mouse or digital pens (for mobile devices and computers with touch screens)

(Usability) LD4PE Toolkit (Describe a Resource Page)

LD4PE (LD4PE) - Describe a Resource

The typical expected age range, e.g. '7-9', '11-', '18+'.

Time Required:

Approximate or typical time it takes to work with or through this learning resource for the typical intended target audience, e.g. 'P30M', 'P1H25M'.

Interactivity Type: ☒ Active ☐ Expositive ☐ Mixed

The predominant mode of learning supported by the learning resource.

Accessibility

Accessibility API: ☐ Android Accessibility ☐ ARIA ☐ ATK ☐ AT-SPI ☐ Blackberry Accessibility ☐ iAccessible2 ☐ iOS Accessibility ☐ Java Accessibility ☐ Mac OSX Accessibility ☒ MSAA ☐ UI Automation

Indicates that the resource is compatible with the referenced accessibility API.

Accessibility Control: ☐ Full Keyboard Control ☐ Full Mouse Control ☐ Full Switch Control ☒ Full Touch Control ☐ Full Video Control ☐ Full Voice Control

Identifies input methods that are sufficient to fully control the described resource.

Accessibility Feature: ☐ Alternative Text ☐ Annotations ☐ Audio Description ☐ Book Marks ☐ Braille ☐ Captions ☐ Chemical Markup Language ☐ Described Math ☐ Display Transformability ☐ High Contrast Audio ☐ High Contrast Display ☐ Index ☒ Large Print ☐ Latex ☐ Long Description ☐ Math ML ☐ None ☐ Print Page Number ☐ Reading Order ☐ Sign Language ☐ Structural Navigation ☐ Table of Contents ☐ Tactile Graphic ☐ Tactile Object ☐ Tagged PDF ☐ Timing Control ☐ Transcript ☐ TTS Markup ☐ Unlocked

Content features of the resource, such as accessible media, alternatives and supported enhancements for accessibility.

Accessibility Hazard: ☐ Flashing ☐ No Flashing Hazard ☐ Motion Simulation ☒ No Motion Simulation Hazard ☐ Sound ☐ No Sound Hazard

A characteristic of the described resource that is physiologically dangerous to some users.

Add a clear button here →

BUTTONS

- After completing the resource description, users may want to clear all fields and stay on the page to start the resource description again, instead of exiting this page.
- **Recommend adding a button to clear all fields.**
- Initially thought the delete button did this, but after further investigation it just removes the triples from the records database. (more on this in the next slide).
- After trying the delete button, I tried using the cancel button to see if it would clear all fields without exiting the application and returning to the Welcome Page. It just exits the application and returns to the Welcome page
- Recommend adding a mouseover or hover box to each button so that the user knows exactly what will happen once they click one of the buttons...For example:
 1. **Clear** "Clears all fields"
 2. **Delete** "Deletes record in database"
 3. **Cancel** "Exits application"
 4. **Submit** "submit record"

(Usability) LD4PE Toolkit (Describe a Resource Page)

Existing description found. Modify it below. ✕

Describe a Resource

URL:
URL of the item.

General

Name
en-US: +
The name of the item.

Description
en-US: +
A short description of the item.

Topical Index:
The topic of the resource.

About
en-US: +
The subject matter of the content.

About
en-US: ✕

About
en-US: ✕

LRMI (LD4PE)

Time Required:
Approximate or typical time it takes to work with or through this learning resource for the typical intended target audience, e.g. "P15M", "Y1H25M".

Interactivity Type: ☐ Active ☐ Expositive ☒ Mixed
The predominant mode of learning supported by the learning resource.

Accessibility

Accessibility API: ☐ Android Accessibility ☐ ARIA ☐ ATK ☐ AT-SPI ☐ BlackBerry Accessibility ☐ Accessibility ☐ iOS Accessibility ☐ Java Accessibility ☐ Mac OS X Accessibility ☐ MSAA ☐ UI Automation
Indicates that the resource is compatible with the referenced accessibility API.

Accessibility Control: ☐ Full Keyboard Control ☐ Full Mouse Control ☐ Full Switch Control ☐ Full Touch Control ☐ Full Video Control ☐ Full Voice Control
Identifies input methods that are sufficient to fully control the described resource

Accessibility Feature: ☐ Alternative Text ☐ Annotations ☐ Audio Description ☐ Book Marks ☐ Braille ☐ Captions ☐ Chemical Markup Language ☐ Described Math ☐ Display Transformability ☐ High Contrast Audio ☐ High Contrast Display ☐ Index ☐ Large Print ☐ Latex ☐ Long Description ☐ Math ML ☐ None ☐ Print Page Number ☐ Reading Order ☐ Sign Language ☐ Structural Navigation ☐ Table of Contents ☐ Tactile Graphic ☐ Tactile Object ☐ Tagged PDF ☐ Timing Control ☐ Transcript ☐ TTS Markup ☐ Unlocked
Content features of the resource, such as accessible media, alternatives and supported enhancements for accessibility.

Accessibility Hazard: ☐ Hashing ☐ No Hashing Hazard ☐ Motion Simulation ☐ No Motion Simulation Hazard ☐ Sound ☐ No Sound Hazard
A characteristic of the described resource that is physiologically dangerous to some users.

RECORDS

- Potential problem-easy to modify or delete any record.
- In its current state, anyone could delete all records created through this application.
- In its current state, anyone could modify any record and add false information.
- Recommend establishing an editing policy similar to Wikipedia that is visible to users.
- Recommend adding an element that would prevent total record removal, or ensure database is backed up and information can be restored
- Recommend adding timestamp that displays when a record was created and the last time record was modified. (Displays once a record is retrieved for editing) For example:
 - “This record was created on 7 December 2016, at 03:28”
 - “This record was last modified on 10 December 2016, at 06:28”

(Usability) LD4PE Toolkit (View All Records)

RECORDS - PROBLEMS

- Additional issues with this page.
- There are 35 pages totaling 519 records thus far.
- This will only increase as the application gets more usage.
- How do I access a record I created and wish to modify? Scenario: I created a record 3 months ago and wish to find it to make changes.
- In its current state, users will have to browse through each page to locate the record and would have to remember the URL they submitted...very time consuming.

LRMI (LD4PE) Configure Describe a Resource **View all Records**

View all Records

record	date
http://ils.unc.edu/courses/2013_spring/inls728_001/2013KO_syllabus.pdf	2015-06-17T20:06:11+00:00
http://www.preciserecall.com/lis/index.php/ischool/infx-542-information-structures-using-xml	2015-06-17T20:06:11+00:00
http://gslis.simmons.edu/blogs/candy/415-2/	2015-06-17T20:06:11+00:00
http://www.dcpumer.com/resources/courses/lifecycle-metadata-for-digital-objects/	2015-06-17T20:06:11+00:00
http://faculty.washington.edu/acarlyle/lis_530_syllabus.htm	2015-06-17T20:06:11+00:00
http://web.simmons.edu/~joudrey/417/Syllabus.htm	2015-06-17T20:06:11+00:00
http://comminfo.rutgers.edu/component/cur,610/num,520/option,com_courses/sch,17/task,view/	2015-06-17T20:06:11+00:00
https://www.si.umich.edu/programs/class/winter-2015/managing-organizational-information-assets	2015-06-17T20:06:11+00:00
https://www.ischool.utexas.edu/sites/default/files/images/webform/INF%20384M%20syllabus%20fall%202014.pdf	2015-06-17T20:06:11+00:00

« < 26 27 28 29 30 31 32 33 34 35 > »

(Usability) LD4PE Toolkit (View All Records)

RECORDS – SOLUTIONS

LRMI (LD4PE) Configure Describe a Resource **View all Records**

View all Records

record	date
http://ils.unc.edu/courses/2013_spring/inls728_001/2013KO_syllabus.pdf	2015-06-17T20:06:11+00:00
http://www.preciserecall.com/lis/index.php/ischool/infx-542-information-structures-using-xml	2015-06-17T20:06:11+00:00
http://gslis.simmons.edu/blogs/candy/415-2/	2015-06-17T20:06:11+00:00
http://www.dcpplumer.com/resources/courses/lifecycle-metadata-for-digital-objects/	2015-06-17T20:06:11+00:00
http://faculty.washington.edu/acarlyle/lis_530_syllabus.htm	2015-06-17T20:06:11+00:00
http://web.simmons.edu/~joudrey/417/Syllabus.htm	2015-06-17T20:06:11+00:00
http://comminfo.rutgers.edu/component/cur,610/num,520/option,com_courses/sch,17/task/view/	2015-06-17T20:06:11+00:00
https://www.si.umich.edu/programs/class/winter-2015/managing-organizational-information-assets	2015-06-17T20:06:11+00:00
https://www.ischool.utexas.edu/sites/default/files/images/webform/INF%20384M%20syllabus%20fall%202014.pdf	2015-06-17T20:06:11+00:00

« < 26 27 28 29 30 31 32 33 34 35 > »

v1.1.0

- Organize data entered in resource description.
- Provide the ability to sort and search through records.
- Add the ability to delete a record on this page as well.
- If these features are added, change the “View all Records” tab in the primary navigation to “Records”
- Create sub-navigation “Sort,” “Search,” and “View all records”.

LD4PE Project Toolkit Review Summary

- Findability-users should be able to locate the tool from the LD4PE website by using the search feature on the site. Users should also be able to locate the tool by using any of the three primary search engines.
- Responsive-No issues here, every feature of the toolkit was tested on the most used operating systems platforms and devices. Used the bootstrap framework well when building this tool.
- Usability- Some usability issues were discovered. Recommendations to solve those issues were posted