WikiD (Wiki/Data)

Jeffrey A. Young
Presented by Stu Weibel
OCLC Office of Research
jyoung@oclc.org

CERN OAI4
Geneva, Switzerland
20 October 2005
WikiD Overview

- Ward Cunningham describes a wiki as "the simplest online database that could possibly work".

- The cost of this simplicity is that wikis are generally limited to a single collection containing a single kind of record (viz. Wiki Markup Language records).

- WikiD (Wiki/Data) extends the wiki model to support multiple collections containing arbitrary schemas of XML records with minimal additional complexity.
WikiD Protocols

- Collections and their items are individually identified and can be accessed through a variety of protocols:
  - OpenURL 1.0
  - SRW/U Search
  - SRW Update
  - OAI
  - RSS

- These protocols allow WikiD to be used as a stand-alone webapp or as a web service component in a larger system
  - DeweyBrowser
  - Open WorldCat contributed content
Overview

Ward Cunningham describes a wiki as "the simplest online database that could possibly work". The cost of this simplicity is that wikis are generally limited to a single collection containing a single kind of record (viz. WikiMarkupLanguage records). WikiD extends the Wiki model to support multiple WikiCollections containing arbitrary schemas of XML records with minimal additional complexity.

- Here are the standard TextFormattingRules in case you are new to wikis in general
- Here are some details about the WikiDEngine architecture
- Learn about WikiD’s distinctive WikiCollection feature
- Learn about WikiD’s distinctive OpenUriResolverFeature
- Check out the latest developments in the VersionFile

Here is a WikiDSandbox. You can use it to create and edit your own collections and wiki pages. Once you are comfortable there, feel free to contribute to any page on this site. All changes are archived, and can be viewed or recovered by selecting 'History' from the item's pulldown menu.

You can leave comments, suggestions, and problems on the WikiDFeedback page.
Dewey Record

History & geography / Geography & travel / Geography of & travel in Europe

Class: 914

Caption: Geography of and travel in Europe

<table>
<thead>
<tr>
<th>Index Terms</th>
<th>Mapped Terms</th>
<th>Suggested Terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>travels in Spain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Down The Chianti Road: Tuscany</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The world is flat a brief history of the twenty-first century
by Thomas L Friedman; Oliver Wyman

Your Review

Tell us what you think. Write a review of this item and share your opinions with others. Please be sure to focus your comments on the item. Read our content guidelines for more information.

1. How do you rate this item?

Very Good

2. Please enter a title for your review:

A bit long but definitely worth a read

3. Type your review in the space below:

The author does a good job explaining why the world is becoming a flat place where anyone can compete effectively on a global scale by taking advantage of the technologies that now exist. Mr. Friedman gets a little political in some places and somewhat repetitive (15 CD's for the audio version) in making his points, but overall I found the book to be informative and challenging to the traditional business models that have guided successful organizations in the past.

Submit Review
Support for Multiple Collections

- CollectionWikiPages is the **primary bootstrap collection** and gives WikiD its out-of-the-box Wiki functionality

  - Consider that many conventional wiki implementations treat certain types of WikiNames as special (e.g. WikiNames that begin with the word “Category”)

  - In the same spirit, CollectionWikiPages treats WikiNames that start with the word “Collection” as special

  - This special class of WikiNames allows users to create, reference, and manipulate collections in much the same way they would create and reference wiki pages.
WikiD Sandbox

* NormalWikiName : Refers to a conventional wiki page
* CollectionCuisineTypes : Refers to a WikiD collection
* CollectionRestaurants : Refers to a WikiD collection
This collection doesn't exist yet.

<table>
<thead>
<tr>
<th>Collection Name</th>
<th>Restaurants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Identifier Type</td>
<td>User-assigned, System-assigned, External (Instructions)</td>
</tr>
<tr>
<td>Administrator's email</td>
<td><a href="mailto:jyoung@oclc.org">mailto:jyoung@oclc.org</a></td>
</tr>
<tr>
<td>XSL Stylesheet</td>
<td>System-created, Manually-created (Instructions)</td>
</tr>
<tr>
<td>Native Record Schema</td>
<td>default</td>
</tr>
</tbody>
</table>

Crosswalks

See the instructions to learn how to configure crosswalks

<table>
<thead>
<tr>
<th>Crosswalk Schema</th>
<th>default</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Add new</td>
</tr>
<tr>
<td>None</td>
<td>Add new</td>
</tr>
<tr>
<td>None</td>
<td>Add new</td>
</tr>
</tbody>
</table>
WikiD Sandbox

- NormalWikiName : Refers to a conventional wiki page
- CollectionCuisineTypes : Refers to a WikiD collection
- CollectionRestaurants : Refers to a WikiD collection
To the FrontPage

Collection: Restaurants

New item identifier: kihachi

Create Item

<table>
<thead>
<tr>
<th>Item identifier</th>
<th>Item label</th>
<th>Edit link</th>
<th>Deposit record link</th>
<th>Record content link</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

There are no records in this collection

Import records: (restaurant)

Import
This record doesn't exist yet.

<table>
<thead>
<tr>
<th>name</th>
<th>Kihachi</th>
</tr>
</thead>
<tbody>
<tr>
<td>cuisine</td>
<td>Japanese</td>
</tr>
<tr>
<td>address</td>
<td>2667 Federated Blvd.</td>
</tr>
<tr>
<td>city</td>
<td>Columbus</td>
</tr>
<tr>
<td>state</td>
<td>OH</td>
</tr>
<tr>
<td>phone</td>
<td>(614) 764-9040</td>
</tr>
<tr>
<td>website</td>
<td></td>
</tr>
<tr>
<td><strong>name</strong></td>
<td>Kihachi</td>
</tr>
<tr>
<td>------------</td>
<td>------------------</td>
</tr>
<tr>
<td><strong>cuisine</strong></td>
<td><a href="#">info: sid/localhost: CollectionCuisineTypes: japanese</a></td>
</tr>
<tr>
<td><strong>address</strong></td>
<td>2667 Federated Blvd.</td>
</tr>
<tr>
<td><strong>city</strong></td>
<td>Columbus</td>
</tr>
<tr>
<td><strong>state</strong></td>
<td>OH</td>
</tr>
<tr>
<td><strong>phone</strong></td>
<td>(614) 764-9040</td>
</tr>
<tr>
<td>Item identifier</td>
<td>Item label</td>
</tr>
<tr>
<td>----------------</td>
<td>--------------</td>
</tr>
<tr>
<td>tajPalace</td>
<td>Taj Palace</td>
</tr>
<tr>
<td>sumenos</td>
<td>Sumeno's</td>
</tr>
<tr>
<td>kihachi</td>
<td>Kihachi</td>
</tr>
</tbody>
</table>

Import records: (restaurant)
OpenURL 1.0 Resolver

- A standard for performing context-sensitive “services” on “referents” (e.g. rendering of wiki markup records)
- Installation is configured to recognize wiki-type services
  - display
  - edit
  - delete
  - etc.
- For this application, the OpenURL resolver is embed in the WikiD code rather than running as a sibling web-app
## Wiki/OpenURL 1.0 Mapping

<table>
<thead>
<tr>
<th>OpenURL Entity Type</th>
<th>Identifier</th>
<th>By Value Metadata</th>
<th>By Reference Metadata</th>
<th>Private Data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Referent</strong></td>
<td>info:sid/localhost:CollectionWikiPages:FrontPage/Sub</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Referring Entity</strong></td>
<td><a href="http://localhost/wkid/FrontPage">http://localhost/wkid/FrontPage</a></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Requester</strong></td>
<td>User ID (if authenticated)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Service Type</strong></td>
<td></td>
<td></td>
<td>action=edit</td>
<td></td>
</tr>
<tr>
<td><strong>Resolver</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Referrer</strong></td>
<td>info:sid/oclc.org:WikiD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Pears

- A record-based database system
- http://www.oclc.org/research/software/pears/default.htm
SRW/U

- Search/Retrieve Web/URL Service
- A SOAP/REST search service standard
  - [http://www.loc.gov/z3950/agency/zing/srw/brief.html](http://www.loc.gov/z3950/agency/zing/srw/brief.html)
  - [http://www.oclc.org/research/software/srw/default.htm](http://www.oclc.org/research/software/srw/default.htm)
Update

- Update Web Service
- A database update web service standard created by the SRW/U community
- Enhanced to support file system-based version control of documents
WebEdit

- A lightweight open-source web-based record editor
- Accepts HTML form submittals and transforms them into XML documents that conform to a desired XML Schema
- Forwards the generated XML document to a corresponding Update service
WikiD

- An lightweight wiki front-end to an OpenURL 1.0 resolver
  - This combination supports wiki-enhancements for managing fielded data collections
- doGet/doPost processing
  - Transforms a Wiki URL request into an OpenURL 1.0 ContextObject representation
  - Issues the ContextObject to the OpenURL resolver
  - Relays the resolver results back to the client
Reference Links

- WikiD project page
- WikiD demo
  - [http://alcme.oclc.org/wikid/](http://alcme.oclc.org/wikid/)
- Open WorldCat contributed content (example)
  - [http://worldcatlibraries.org/wcpa/oclc/58795737&tab=reviews](http://worldcatlibraries.org/wcpa/oclc/58795737&tab=reviews)
- OCLC DeweyBrowser
  - [http://deweyresearch.oclc.org/ddcbrowser/a14](http://deweyresearch.oclc.org/ddcbrowser/a14)