

Bucket Author Tool Design

ODU DLIBUG group

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1 overview

The purpose of this document is to define the software and interface design of bucket author tool. It's part of bucket tool software design.

2 Applicable documents

2.1 System design document

<http://www.cs.odu.edu/~dlibug/documents/collection/bucket/design.doc>

Overarching system design for the bucket tools, this document is focusing on relationships between different tool and security model. Reading system design document is preferred.

3 Functional design

3.1 User login

Get username/passwd pair from user, send authentication request <user,password,"author"> to authentication center. If authentication pass, system will enter next step; if authentication fail, system will give some error prompt.

3.2 Bucket creation

After authentication, user can select specific bucket template and targeting sub-staging archival, once user confirm to create a new bucket, author tool will assign a unique id for this bucket, create it in sub-staging archival. After that, system will enter Bucket Editing procedure.

3.3 Bucket Selection

Author tool can load bucket from publishing archival and staging archival.

3.4 Metadata Editing

Bucket can edit metadata for bucket. (Do we really need same metadata for package & element? People seldom use it, and we don't have an implementation in search interface)

3.5 View metadata

Show user readable form of bucket metadata.

3.6 View Constituting files

User selects element show file in separate window.

3.7 Upload constituting files

Select element; browse for file; confirm; upload files to local systems.

3.8 *Submit bucket for management approval*

Select manager for approval from “managerlist”; move bucket to ‘stagingarchive’; send e-mail to manager

4 Metadata

- Author: Select author from ‘authorlist ‘ or edit it directly, when author is selected, author affiliation field should display automatically. Editable field.
- Title: Editable field.
- Abstract: Editable field.
- Archives: Predefined, select only.
- Archive’s collections: Predefined, select only.
- Affiliation: by default from ‘authorlist’, Editable field.
- Subject: Two-level, predefined, select only.
Possible values:
See: dlib.cs.odu.edu/buckets/ncstrlplus-subject.pl
- Material type: Predefined, select only.
Possible values:
"Courseware",
"Agency/Project Report",
"Contractor Report",
"Thesis/Dissertation",
"Conference Paper",
"Journal Article",
"Technical Report",
"Book",
"Patent",
"Data Collection"
- Term& Conditions: Predefined, select only.
Possible values:
Restricted
Copyright – (Unrestricted but with copyright information.)
Unrestricted
- Accession date: show today not editable
- Creation date: let user input date

5 Interface design

Based on ups.cs.odu.edu:8000, advanced search interface.

6 Appendix

6.1 *Existed author tool*

Zhao’s author tool: <http://dlib.cs.odu.edu:8000/authortool/index.htm>

XML author tool: <http://www.cs.odu.edu/~dlibug/xml>

Ajoy's author tool: <http://dlib.cs.odu.edu/buckets/author.cgi>

6.2 *Version History*

- Dec-11-1999 -First release