



ArchivesSpace

a community served by ✦ LYRASIS

Unit Testing and the Testing Sub-Team: Varying Approaches to Testing ArchivesSpace Pre-Releases

December 14, 2017 – Webinar

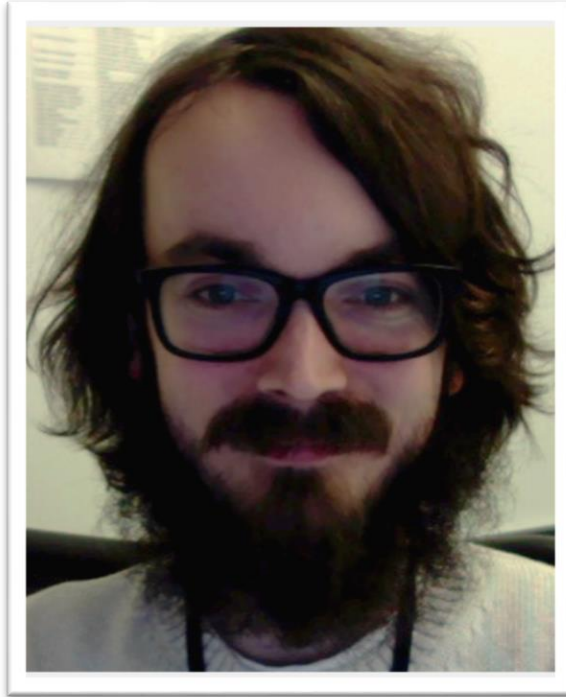


ArchivesSpace

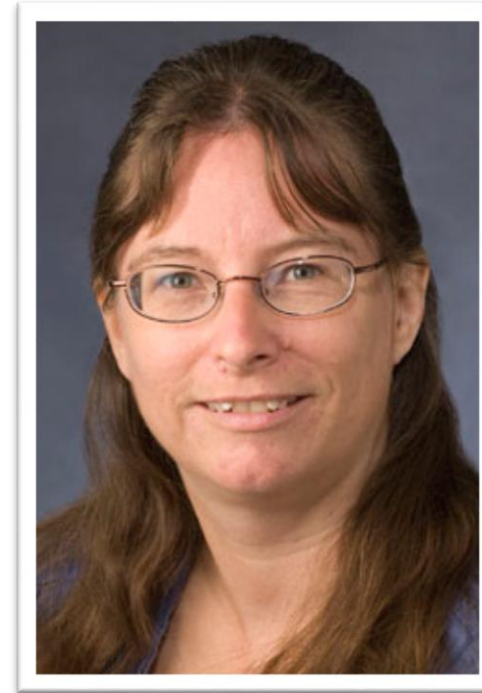
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Presenters



Alex Duryee
New York Public Library



Miloche Kottman
University of Kansas



RUNNING TESTS IN ARCHIVESSPACE

Alex Duryee

ArchivesSpace Webinar

December 14, 2017

CORE COMMITTEES GROUP

- The ArchivesSpace Core Committers Group is a committee that assists in the creation and integration of community contributions to ArchivesSpace
- Currently seven members from a number of archives and organizations

WHY ARE WE TALKING ABOUT TESTING?

- The Core Committers Group decided that tests are a requirement for all new contributions to the ArchivesSpace core codebase
- Running/writing tests can be a barrier to working with large codebases

WHAT IS TESTING?

- Testing is an automated method to ensure that new features/changes to an application work properly
- Tests check that new code works properly, and that old code continues working
- Tests typically check lots of tiny things (*unit tests*), which ensure that they continue to work as the application evolves

TESTING PROCESS

- Create a test database
- Start up an application
- Populate the database with preset test data Test the application's interface
- Test that the data renders in the application properly
- Test data exports from the application
- Delete the test database

TESTING PROCESS, ASpace-FLAVORED

- Create a temporary database
- Start up ArchivesSpace and connect it to the database
- Populate the database with data
- Test backend retrieval and calculation methods
- Test API endpoints
- Test data serializations (EAD, EAC, et al)
- Test public and staff interfaces via browser automation
- Test Solr indexer
- Shut down ArchivesSpace
- Delete the temporary database

ASPACE'S TESTING ARCHITECTURE

- ArchivesSpace uses a combination of testing tools
- Backend – rspec
- Indexer – rspec
- Staff interface – selenium

RUNNING TESTS IN FOUR EASY STEPS

1. `git clone https://github.com/archivesspace/archivesspace.git`
2. `cd archivesspace`
3. `build/run bootstrap`
4. `build/run test`

RUNNING PARTIAL TESTS

- You can run parts of the test suite by changing the build/run argument
 - `build/run backend:test`
 - `build/run selenium:test`
 - `build/run indexer:test`

EVEN MORE PARTIAL TESTS

- **The `-Dexample="search terms"` command**
 - Searches spec files for "search terms" and executes only those tests
 - Targeted search terms allow for running single tests

NEXT STEPS

- Contributing to core ASpace
 - CCG is here to help!
- Writing tests

ArchivesSpace Testing Sub-Team

Miloche Kottman

mkottman@ku.edu

Webinar on Testing

December 14, 2017

About the Testing Sub-team

- Split from Features Prioritization and Testing team – January 2016
- Members from both the ArchivesSpace User Advisory and Technical Advisory Councils
- Current Roster:
 - Miloche Kottman (User Advisory Council)
 - Brittany Newberry (User Advisory Council)
 - Robert Lay (User Advisory Council)
 - Cory Nimer (Technical Advisory Council)
 - Dallas Pillen (Technical Advisory Council)
 - Ed Busch (Technical Advisory Council)
 - Scott Hanrath (Technical Advisory Council)



Brackets "[]" in searches in the PUI causing errors

Comment

Tested and accepted

Tested and rejected



Details

Type: ■ Bug Status: **READY FOR TESTING**
(View workflow)
Priority: ✓ Minor
Affects Version/s: 2.1.1 Resolution: Unresolved
Fix Version/s: None

Labels: public_interface



People

Assignee: Laney McGlohon
Reporter: Susan Pyzynski
Votes: 0 Vote for this issue
Watchers: 4 Start watching this issue



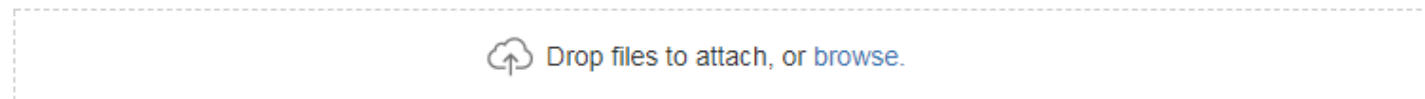
Description

If you copy-and-paste a title of an archival object, for example "S. Willard library account [book], 1802-1803" in the search, the search returns an error "We're sorry, but something went wrong." If you remove the brackets "[]", the search returns the expected results.

Dates

Created: 05/Sep/17 2:04 PM
Updated: 06/Nov/17 11:00 AM

Attachments



Issue links



mentioned in [Page](#) Authenticate to see additional information.

Activity



All **Comments** Work log History Activity



Development

1 branch
1 commit Latest 30/Oct/17 1:14 PM
1 pull request MERGED Updated 30/Oct/17 1:14 PM

Agile

[View on Board](#)

Activity

All

Comments

Work log

History

✓ Miloche Kottman added a comment - 14/Aug/17 12:50 PM

This does not seem to be working. I downloaded the numbers to the spreadsheet (attached). When I run the script, I get "telephone"

```
=====  
testcsv_aspace.csv  
=====
```

```
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!  
IMPORT ERROR  
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

```
Error: #<NoMethodError: undefined method `telephones' for nil:NilClass>  
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

testcsv_aspace.csv

```
=====  
testcsv_aspace.csv  
=====
```

```
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!  
IMPORT ERROR  
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

```
Error: #<NoMethodError: undefined method `telephones' for nil:NilClass>  
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

✓ Ed Busch added a comment - 14/Aug/17 12:50 PM

I concur with Miloche though I did not get the error in my test import. I had numbers for agent fax and telephone but neither displayed. I attached Capture, Capture1 and my csv file.

This does not seem to be working.

✓ Laney McGlohon added a comment - 16/Aug/17 8:20 AM

None of the telephone fields are being populated from the accession csv importer so more than what was done with pull request <https://github.com/archivesspace/archivesspace/pull/931> needs to be done to fix this issue.

Comment

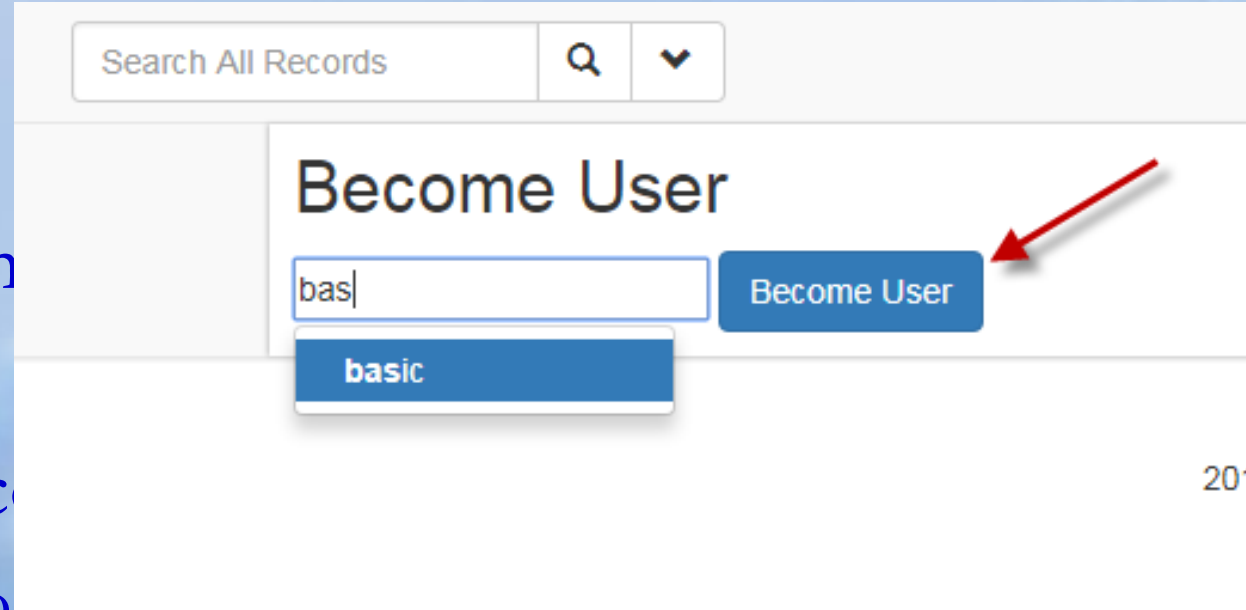
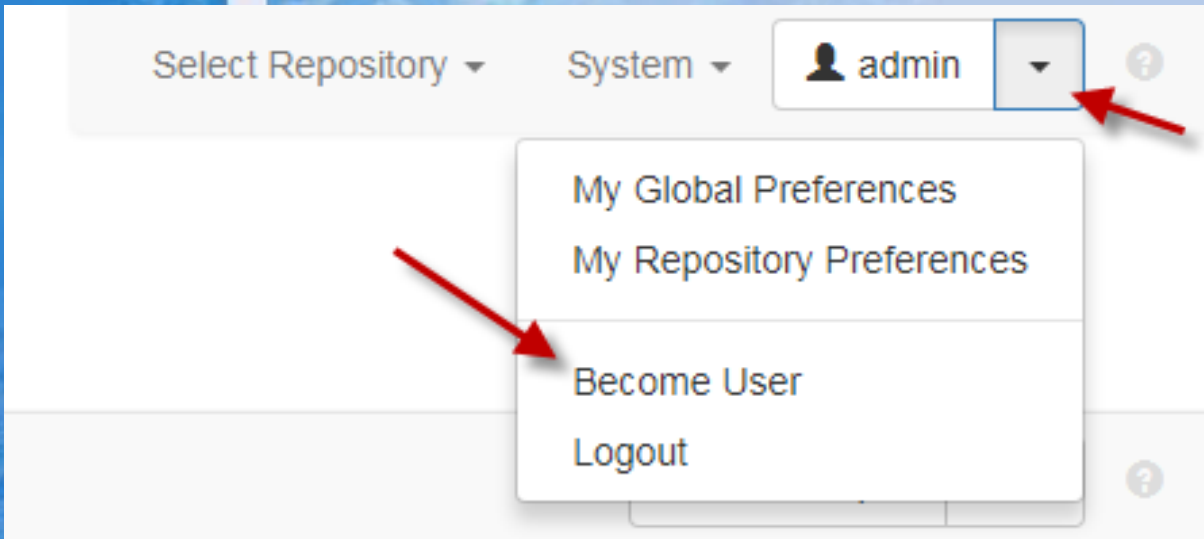
needed

Version 2.0 testing and beyond

- Developed testing protocol in Google Sheets
 - Test the application as a whole to make sure things that were previously working still work with changes in the application
- Separate sheets for record types /web page /functional area
- Version 2.1- Call for public testing

Accessions	Resources
Digital Objects	Background Jobs
Search	Reports
Public Interface	Containers
Agents	Subjects
Locations	Repositories
Users	Events
Collection Management	Application Management
Large Trees	Advanced Searching

Testing Process



– Helpful for testing and troubleshooting

Repository Functions - - permission level: [1

Manage Repositories (from System menu)
from the browse list of repositories

Active repository is indicated

Can Select Repository

View a repository

Edit a repository

Sort results

Filter by text

When editing a repository, can enter inform

When viewing a repository, can see informa

Create Repository

Can add multiple telephone numbers and

Delete Repository

Home / Repositories

Filter by text



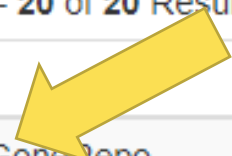
Create Repository

Repositories

Showing 1 - 20 of 20 Results

Sort by: Select

Title	Publish?		
Selected GonerRepo	True	Created by admin 2015-12-16 05:17:43 -0800 Last Modified by a 2017-11-27 11:50:17 -0	View Edit
q-test	True	Created by admin 2015-12-22 10:21:20 -0800 Last Modified by admin	Select Repository View Edit



A	B	C	D
Resource Functions- permission level: []	Pass	Fail	Notes
Browse Resources			
View Resource (from Browse list)			
Edit Resource (from Browse list)			
Edit Default Values			
Resource			
Resource Component			
Download CSV			
Create Resource (from Browse list)			
Delete Resource			
Sort results			
Faceting			
Filter by text			
Create Resource (from Create menu)			
Enter information into all basic information fields and required sub-records			
Save - try to save once without required information, once with			
Lefthand navigation - clicking on a section leads to the expected place, if there are multiple entries in a section, number is indicate			
Resource Toolbar functions from top level - indicate the buttons that appear for your level of privileges in the notes area			
Calculate Extent			
Add Event - add 5 kinds of events, note any issues			
Publish All			
Export			
Download EAD (try the different options)			
Download MARXML			
Download Container Labels			
Print to PDF			
Merge			
Transfer			
Suppress			
Delete			

Sandbox

- Install local version – download from github
- ArchivesSpace test site -- <http://test.archivesspace.org>
- Version information (sorta) indicated at bottom of page



20171128-1027 | Public site | Resources | Issue Tracker | LYRASIS support



All dogs, all the time

Collection

> Shi Tzu

File Mixed Materials, Digital ... Box: 1 [4526]

> Skye Terrier

File Mixed Materials Box: 4 [154]

< 2017 08 07

File

Basic Information >

Edit

Dates >

Add Event ▾

Publish All

View Published

Export ▾

Merge ▾

Transfer ▾

More ▾

Suppress

Delete

Extents >

Finding Aid Data >

Notes >

All dogs, all the time **Resource**

Edit

Add Event ▾

Download EAC-CPF

View Published

Merge ▾

Delete

Professor Layton and the Azran Legacy (Level-5) **Agent**

Basic Information

Agent Type Software

Publish True

Created by admin 2017-10-06 09:10:59 -0700, Last Modified by admin 2017-10-06 09:25:28 -0700

Names

>

Professor Layton and the Azran Legacy (Level-5)

Authorized

Display Name

- If you discover a bug/error
 - Try to replicate the steps
 - If you can replicate the error, try to track down what caused it
 - Document what you did and what you think it'll be helpful

Google Drive

Record Groups link (primary navigation)	x		I'm assuming this refers to the Classifications link at the top
Search (primary navigation)	x		Added this line to spreadsheet
Search all record types (Keyword)	x		
Search, Limit to collections	x		
Search, Limit to digital materials	x		
Search, Limit to Title field	x		
Search, Limit to Creator field		x?	Searched for creator name that contains "smith". Found record for Prudence Wayland
Search, Limit to Note fields		x?	I searched for the word "Pages" and limited to Notes fields. I opened the record for "Potatoes in you reducing
Search, Limit to Dates	x		
Search, add row	x		

Finest Flour Mo
 File - Container:
 Found in: GoneRepo

Potatoes In You
 File - Container:
 Found in: GoneRepo

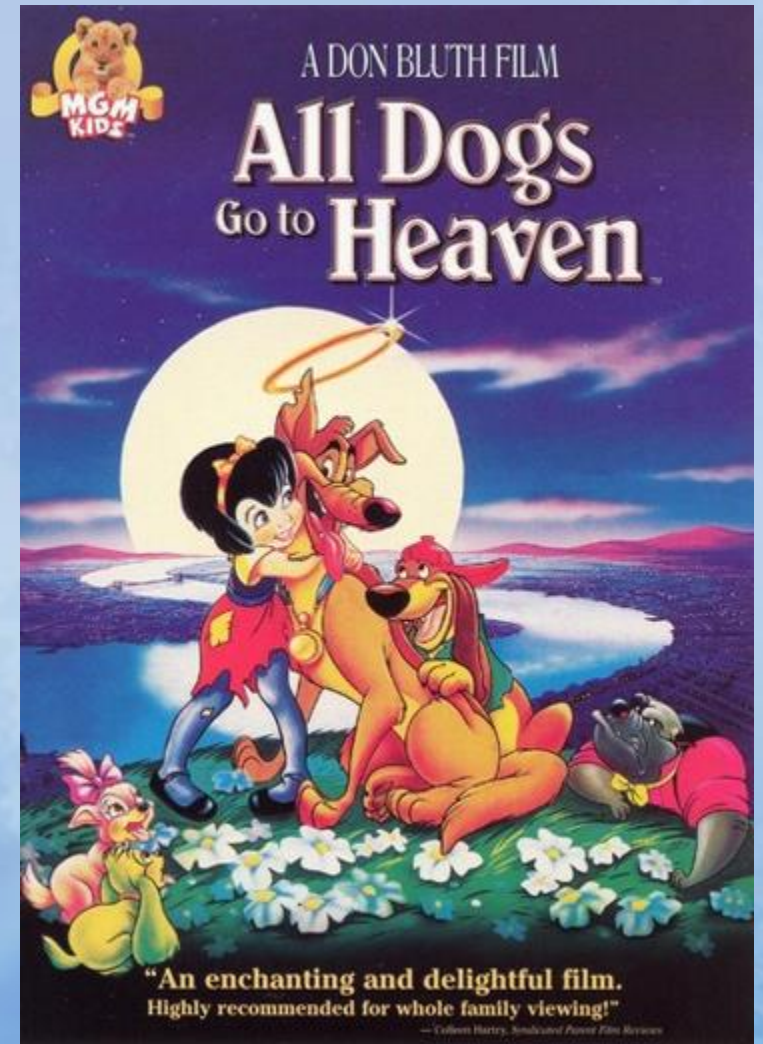
Search all record types (Keyword)	x		
Search, Limit to collections	x		
Search, Limit to digital materials	x		
Search, Limit to Title field	x		
Search, Limit to Creator field		x?	Searched for creator name that contains "smith". Found record for Prudence V
Search, Limit to Note fields		x?	I searched for the word "Pages" and limited to Notes fields. I opened the record for "Potatoes in you reducing diet" and looked
Search, Limit to Dates	x		
Search, add row	x		
Search, remove row	x		

Finest Flour Money Can Buy', circa 1930s
 File - Container: 1930s-1, item: 1930s-0018 Identifier: 8
 Found in: GoneRepo / Letter from me to you / American Cookbooks 1930s

Potatoes In You Reducing Diet, circa 1980s
 File - Container: 1980s-09, item: 1980s-0227 Identifier: 13
 Found in: GoneRepo / Letter from me to you / American Cookbooks 1980s

	Version_2.2.0_Robert_Lay_testing_complete.xlsx		Robert Lay	Oct 10, 2017	Robert Lay	136 KB
	Version_2.2.0_Robert_Lay_testing_complete.xlsx		Christine Di Bella	Oct 10, 2017	Christine Di Bella	-

Questions





Questions?

Thank you for joining us today!



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