Troubleshooting Common Hyrax “Gotchas”

Benjamin Kiah Stroud
Benjamin Kiah Stroud
Junior Web Developer • Notch8
### Collections

<table>
<thead>
<tr>
<th>Collections</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>translation missing: en.hyrax.dashboard.all.collections</td>
<td>translation missing: en.hyrax.dashboard.my.your_collections</td>
</tr>
<tr>
<td>translation missing: en.hyrax.my.count.collections.in_repo</td>
<td></td>
</tr>
</tbody>
</table>

**Show** 10 per page

<table>
<thead>
<tr>
<th>Select</th>
<th>Title</th>
<th>Type</th>
<th>Visibility</th>
<th>Items</th>
<th>Last Modified</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔️</td>
<td>Default Admin Set</td>
<td>translation missing: en.hyrax.collection_type.admin_set_title</td>
<td>translation missing: en.hyrax.visibility.restricted.text</td>
<td>0</td>
<td>09/20/2019</td>
<td>Select</td>
</tr>
</tbody>
</table>
Context: Translations (i18n)

- “Hyrax translates user interface strings into multiple languages”
- **i18n-tasks** gem (utilizing the Google Translate API)
- Translations controlled by YAML files
- Localization files live under:
  - config/locales/
- Language codes:
  - hyrax.en.yml
  - hyrax.fr.yml

Fun Fact: the abbreviation “i18n” means “i-eighteen letters-n”
en:

hyrax:

  | account_name: My Institution Account Id
  | base:
  |   | collections:
  |   |     | subcollection_count: Collections in this Collection
  |   | bread_crumbs:
  |   |   | search_results: Back to Search Results
  |   | collections:
  |   |     | index:
  |   |   |   | collections: Collections
  |   |   |   | works_in_collection: Items in this Collection
  |   | controls:
  |   |   | collections: Collections
  |   |   | institutions: Institutions
  |   |   | participate: Participate
  | dashboard:
  |   | collections:
  |   |   | show:
  |   |   |   | metadata_header: Collection Details
  | directory:
  |   | suffix: "@example.org"
  | footer:
  |   | copyright_html: "<strong>Copyright &copy; 2019 Samvera</strong> Licensed under the Apache License, Version 2.0"
  | institution_name: Institution
  | institution_name_full: The Institution Name
  | pages:
  |   | tabs:
  |   |   | about_page: About
Filter collections: Collection Type

Search Hyrax: Enter search terms

<table>
<thead>
<tr>
<th>Select</th>
<th>Title</th>
<th>Type</th>
<th>Visibility</th>
<th>Items</th>
<th>Last modified</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Default Admin Set</td>
<td>Admin Set</td>
<td>Private</td>
<td>0</td>
<td>09/20/2019</td>
<td>Select</td>
</tr>
</tbody>
</table>

hyrax:

| account_name: Account Id
| collection_type: Admin Set
| directory: |
Customizing Hyrax View Elements

Example: Navbar Icon
1. Inspect Element for Keywords
2. Search Hyrax Repository for keyword/phrase
3. Copy File Into Local Repository

3 Methods:

1) If the Hyrax repo is cloned on the local machine
   a) Git checkout the correct version
      i) [link](https://stackoverflow.com/a/35979751)
   b) `cp ~/Development/source-code/hyrax/app/views/_logo.html.erb app/views`

2) If using Docker (inside the web container)
   a) Show path to gem using: `bundle show hyrax`
   b) `cp /usr/local/rvm/gems/ruby-2.5.3/gems/hyrax-2.5.1/app/views/_logo.html.erb app/views/`
3. Copy File Into Local Repository (continued)

3 Methods:

3) Manually copy-paste from GitHub
4. Make Changes

1) Commit unmodified file **first**
   a) Easier to look back on diffs in git history

2) Add override comments
   a) Top of file: # Override file from Hyrax v2.5.1
   b) Everywhere changes are made: # Change icon from globe to thumbs up

3) Add and commit changes
Customized View Element: Result

```html
1 <%% Override file from Hyrax v2.5.1 %%>
2 <a id="logo" class="navbar-brand" href="<%= hyrax.root_path %>">
3   <%% Change icon from globe to thumbs up %%>
4   <span class="glyphicon glyphicon-thumbs-up" role="img" aria-label="<%= application_name %>" aria-hidden="true"></span>
5   <span class="institution_name"><%= application_name %></span>
6 </a>
```
Adding / Changing Work Properties in Hyrax

When Adding / Changing Property

app/models/{work}.rb
app/indexers/{work}_indexer.rb
app/models/solr_document.rb
app/forms/{work}_form.rb
app/presenters/{work}_presenter.rb
app/views/hyrax/base/_attribute_rows.html.erb
app/views/hyrax/{work}/_attribute_rows.html.erb
app/controllers/catalog_controller.rb
config/locales/{work}.yml

When Adding a Custom Property

(Everything on the left, plus:)
app/views/records/edit_fields/{custom_field}.html.erb
app/views/records/show_fields/{custom_field}.html.erb
Ldp::Conflict error, “Can’t call create on an existing resource”

• Well documented issue
  ○ [https://github.com/samvera/hyrax/issues/3128](https://github.com/samvera/hyrax/issues/3128)
  ○ Has since been resolved as of Hyrax v2.5.0

• Can occur when creating a new Work or Collection
  ○ Wrapped in SQL database transaction
    ■ Doesn’t know how to rollback changes to Fedora / Solr
Ldp::Conflict error, “Can't call create on an existing resource”

Solutions

- Need to keep database data:
  - `[:Noid::Rails::Service.new.minter.mint, ::Noid::Rails::Service.new.minter.mint]`
    - Forces Minter to skip two ids (Fedora / FileSet)

- Don’t need to keep database data:
  - Warning! Destructive!
    - Will wipe all data from Fedora and Solr
    - Will not clear data from ActiveRecord
      - `require 'active_fedora/cleaner'; ActiveFedora::Cleaner.clean!`
    - Great for test db cleanup
Couldn’t find Hyrax::PermissionTemplate

“Permissions templates have a 1-1 relationship to admin sets. Admin sets are the Fedora portion of the implementation, and Permission templates are the database portion.”

- [https://wiki.duraspace.org/display/samvera/Code+for+Permission+Templates](https://wiki.duraspace.org/display/samvera/Code+for+Permission+Templates)

- Occurs when the permission template of a still-existing AdminSet is deleted
- “This may happen if you cleared your database but you did not clear out Fedora and Solr.”
Couldn't find Hyrax::PermissionTemplate

Solutions

- Non-destructive:

```ruby
Hyrax::PermissionTemplate.create!(source_id: AdminSet::DEFAULT_ID)
```

- Destructive:

```ruby
require 'active_fedora/cleaner'; ActiveFedora::Cleaner.clean!
```
Web Console

● Debugging tool
  ○ Similar to `pry` or `byebug`  
    ■ Runs a console through the browser instead of the command line

● Usage
  ○ Add `fail` or `raise 'hello world'` to block
Web Console: Setup

- Add to Gemfile
  - ‘web-console’, group [:development]
  - bundle install

- Whitelist IP address(es)

```ruby
# config/environments/development.rb
Rails.application.configure do
  # Settings specified here will take precedence over those in config/application.rb.
  config.web_console.permissions = ["172.16.0.0/12", "192.168.0.0/16", "127.0.0.1"]

```

Note: older versions of the web-console gem may use #whitelisted_ips instead of #permissions
RuntimeError in Hyrax::Homepage#index

Showing /home/app/webapp/app/views/_logo.html.erb where line #3 raised:

Extracted source (around line #3):

```html
<%# Override file from Hyrax v2.5.1 %>
<a id="logo" class="navbar-brand" href="<%= hyrax.root_path %>"> data-no-turbolink="true">
  <% fail %>
  <%# Change icon from globe to thumbs up %>
  <span class="glyphicon glyphicon-thumbs-up" role="img" aria-label="<%= application_name %>">
    <span class="institution_name"><%= application_name %></span>
  </span>
</a>
```

```
>> hyrax.root_path
=> "/?locale=en"
>>
```
Lightning Round!!!
Useful Methods

#to_solr
- Can be used on objects like FileSets
- Useful for inspecting / troubleshooting Solr documents

#method(:method_name).source_location
- Locate the definition of a provide method
- E.g. AdminSet.method(:indexer).source_location

#methods.grep /fuzzy_keyword/
- Narrow list of methods down to only show those that match a Regular Expression
- E.g. User.last.methods.grep /validat/
Miscellaneous

IIIF Search Troubleshooting

{root_path}/catalog/(:id)/iiif_search?q=foo

{root_path}/concern/{work_type}/(:id)/manifest

Additional Troubleshooting Documentation

- [https://samvera.github.io/troubleshooting-production.html](https://samvera.github.io/troubleshooting-production.html)
- [https://samvera.github.io/troubleshooting_riiif.html](https://samvera.github.io/troubleshooting_riiif.html)
Sources

- https://github.com/samvera/hyrax/wiki/Translations-(internationalization)
- https://whatis.techtarget.com/definition/internationalization-I18N
- https://stackoverflow.com/a/35979751
- https://docs.google.com/presentation/d/1bhb1OyJb300WNEROj3T5Zb4dyjwMhNdvi_WVUYfYUEk/edit#slide=id.g29090e454a_0_38
- https://github.com/samvera/hyrax/issues/3128
- https://wiki.duraspace.org/display/samvera/Code+for+Permission+Templates
- https://github.com/rails/web-console#configuration
Thank you!

Benjamin Kiah Stroud

GitHub: bkiahstroud

Email: kiah@notch8.com

LinkedIn:
www.linkedin.com/in/bkiahstroud/