

Samvera Connect 2021

AllinsonFlex, Bulkrax and Digital Workflows

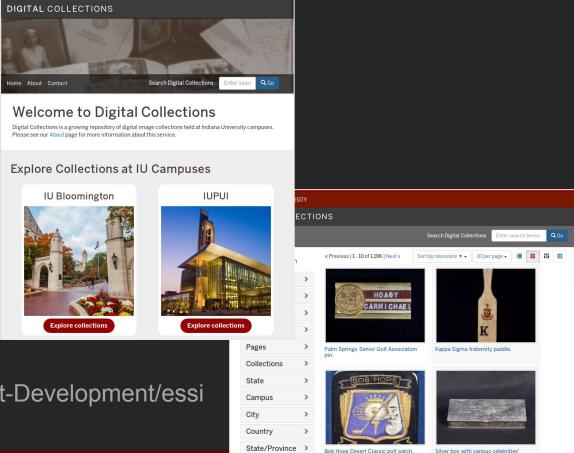
Indiana University Libraries

Adam Ploshay, Daniel Pierce, Jim Halliday

Digital Collections

Hyrax-based image repository intended to replace numerous legacy applications.

digitalcollections.iu.edu



github.com/IU-Libraries-Joint-Development/essi

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Bulkrax

https://github.com/samvera-labs/ bulkrax See Rob Kaufman's presentation on Wednesday gave a great overview.

Digital Collections is using Bulkrax 1.0 with its CSV parser and a METS specific XML parser.

AllinsonFlex

Flexible Metadata Gem

https://github.com/samvera-labs/allinson_flex

Dynamically edit the Machine-readable Metadata Modeling (M3) schema to modify classes (work types), contexts (admin set-specific display characteristics), mappings, and properties while the application is running.



Indiana University Libraries & Notch8 present



AllinsonFlex

Flexible Metadata Profiles



The Problem

- Hyrax assumes uniform metadata across all items
- Adding a metadata field requires a lot of code changes (≅17 places)

The Solution

- Allows admins (not just developers) to customize the schema and metadata of their collections either through a form submission or profile upload
- Collections of the same repository have different metadata needs and this gem gives them the flexibility to define them

Julie Allinson

AllinsonFlex is named for developer. metadata guru, and Community superstar Julie Allinson. This work is part of the tremendous legacy left upon Julie's passing in May 2020. Founded on her prior work on the Dog Biscuits & Houndstooth gems, Julie's work on this gem for Indiana University was a passion project. Her Notch8 and IU colleagues are proud to complete it in her memory.

Metadata Profile -





proile version, profile type, created at, and options

Flexible Metadata Profiles

will display schema version,

Edit Classes (worktypes)

- PagedResource
- Scientific
- BibRecord
- Image



Context Definitions Allows you to connect a

- context to a specific collection Field definitions can be
- applied to an entire collection

Property Definitions -Set specific public labels and definitions, cardinality, default values, etc. on metadata



Are you ready for flexible metadata?

Notch8 is seeking project partners to implement AllinsonFlex and to sponsor work that will make this versatile feature even better! connect@notch8.com

The Project

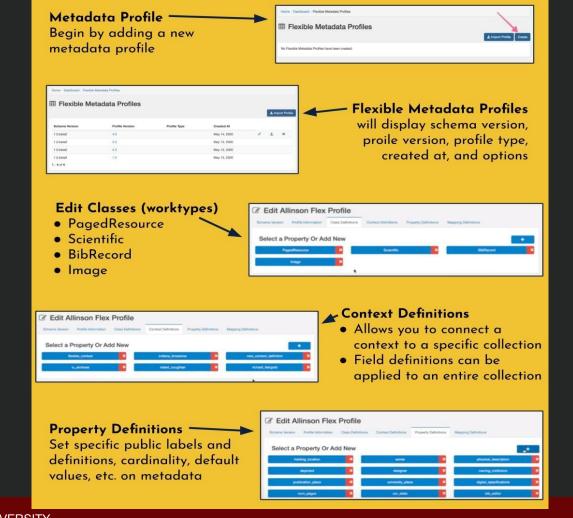
- Sponsored by Indiana University
- ESS Images Hyrax application

How It Works

The gem is able to read an M3 schema along with a profile YAML file and provides a UI for editing the classes, contexts, mappings and properties within. It then provides hooks to the various pieces of Hyrax and similar Rails based systems to in order to assign contexts to Admin Sets, create and modify works and have all the properties of that work defined dynamically by users during run time. Work Types must exists in code (there is a work type generator), but all properties within can be edited dynamically by the library and are stored as data.

Future Goals

- Admin-defined (non-developer) new worktype creation
- Compatibility with Valkyrie
- Multi-tenant functionality in Hyku
- Optimize database tables for speed
- Improve installation workflow



Bumpy Road

Integrating AllinsonFlex and Bulkrax has not always been smooth.

Initially, flexible fields weren't loaded at the time of Bulkrax ingest.

We also needed to add explicit selection of metadata profile version.

And (unrelated to Bulkrax) we wanted to hide some fields from non-admin users.

AllinsonFlex Profile Versioning **DIGITAL COLLECTIONS** Home / Dashboard / Allinson Flex Profiles

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✓ Your activity

Reports

Collections Works Importers Exporters ■ Metadata Profiles

Review Submissions Manage Embargoes Manage Leases

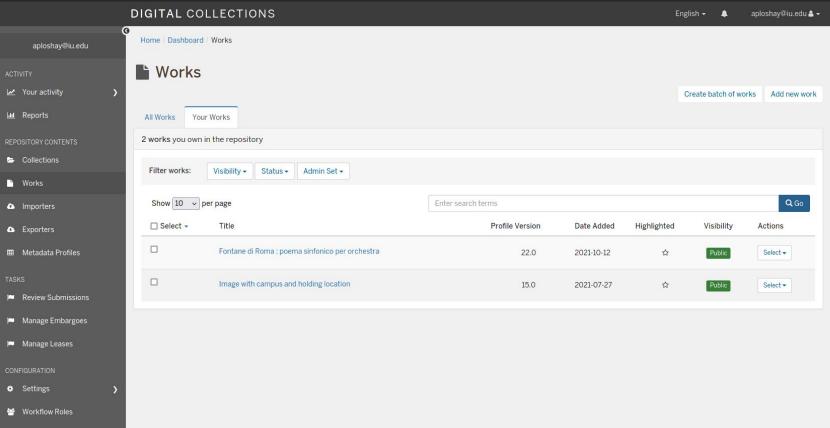
Settings Workflow Roles

Allinson Flex Profiles

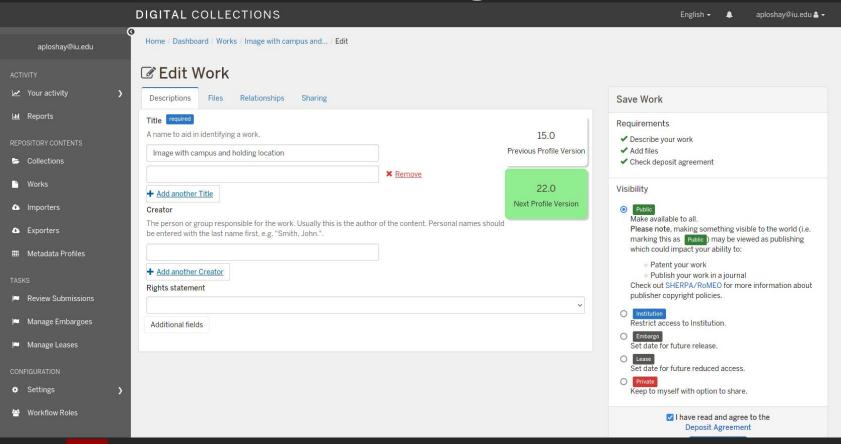
♣ Import Profile

Schema Version	Profile Version	Profile Type	Created At			
1.0.beta2	22.0	concept	Oct 06, 2021	1	<u>*</u>	×
1.0.beta2	21.0	concept	Oct 06, 2021			
1.0.beta2	20.0	concept	Oct 06, 2021			
1.0.beta2	19.0	concept	Sep 17, 2021			
1.0.beta2	18.0	concept	Sep 17, 2021			
1.0.beta2	17.0	concept	Sep 14, 2021			
1.0.beta2	16.0	concept	Aug 31, 2021			
1.0.beta2	15.0	concept	Jul 07, 2021			
1.0.beta2	14.0	concept	Jul 07, 2021			
1.0.beta2	13.0	concept	Jun 30, 2021			
1.0.beta2	6.0	concept	Jun 14, 2021			
1.0.beta2	5.0	concept	Jun 11, 2021			
1.0.beta2	4.0	concept	Jun 10, 2021			
) 1.0.beta2	3.0	concept	May 13, 2021			
1.0.beta2	2.0	concept	May 13, 2021			
1.0.beta2	1.0	concept	May 13, 2021			

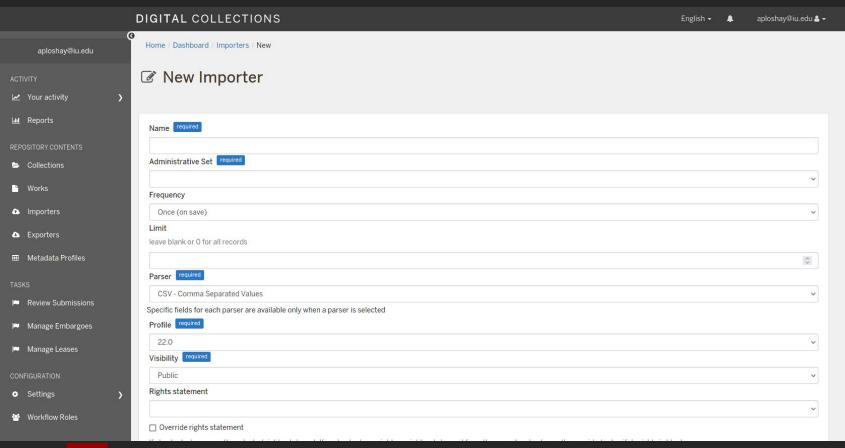
AllinsonFlex Profile Versioning



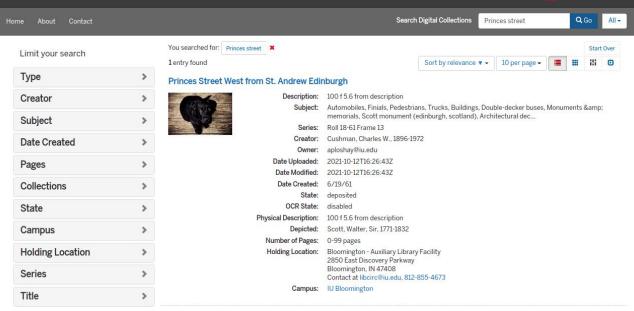
AllinsonFlex Profile Versioning



AllinsonFlex Profile Version Selection



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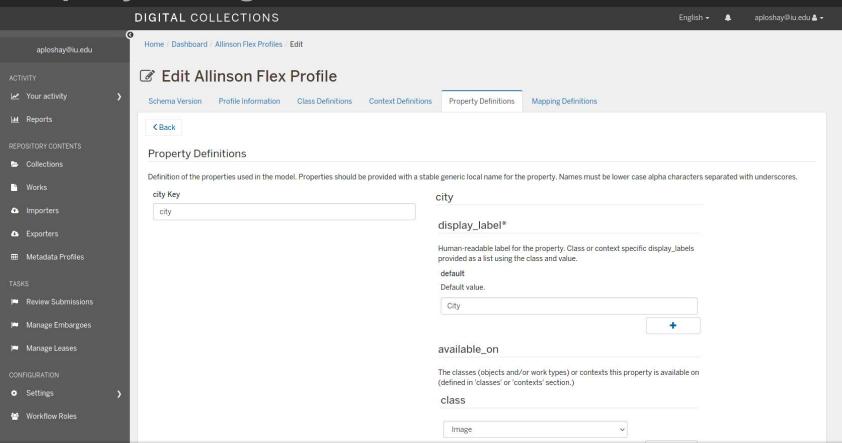
English - 🔔 86 aploshay@iu.edu 🔒 -



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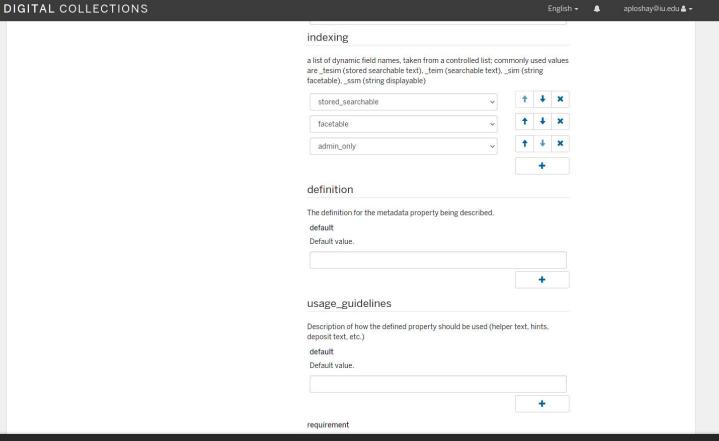


Property Editing

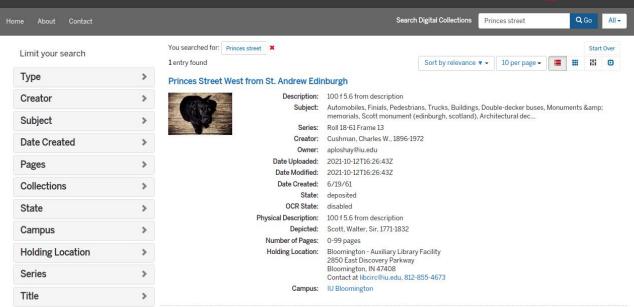




Property Editing: Admin-Only Status



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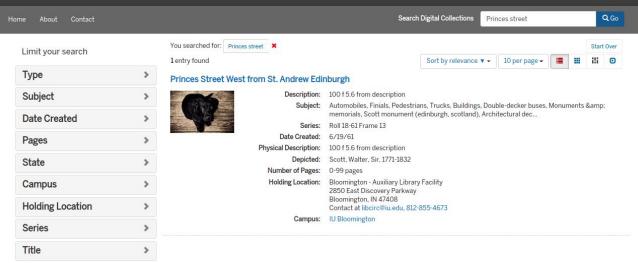


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English → DLogin



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Future Goals for AllinsonFlex

Send fixes from Digital Collection upstream

Optimize DB queries

Increase gem visibility and usage

Become a core Hyrax gem

Thanks for listening!

https://digitalcollections.iu.edu

https://github.com/IU-Libraries-Joint-Development/essi

https://github.com/samvera-labs/allinson_flex

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