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Custom Discovery Interface at the University of Michigan Library

Varnum, Kenneth J.

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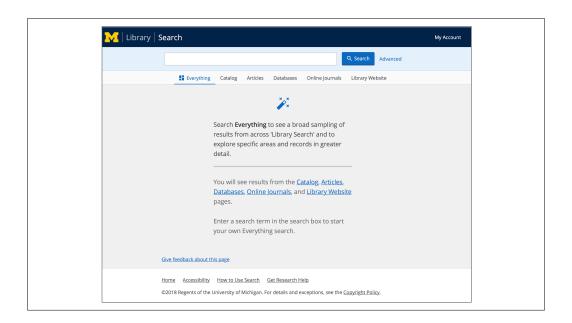
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Custom Discovery Interface University of Michigan

New Developments in Discovery BTAA Library Conference 30 May 2018

Ken Varnum @varnum



I'm going to spend a few minutes this afternoon talking about the U-M library's search interface; and by talking in a bit of detail about the underpinnings, I hope to illustrate the direction that we think discovery is taking. The interface is "in the wild" and you're welcome to try it out yourself. The URL is at the end of the presentation.

As Roger and Bill both highlighted this morning, we Big Ten libraries suffer from an embarrassment of riches. We are fortunate to have a lot of resources to share with our faculty, staff, students, and the world. And that makes the starting points more complicated. It is not enough to send people to the catalog, or to a LibGuide, or to the one relevant subject database. Most of us have all of these aplenty, and more — with different breadths and depths depending on our institutions strengths and focuses.

For Michigan, we focused on a finite, but challenging, set of goals, as we thought about updating our aging discovery environments.

Goals

Improve user experience for ALL users

Reduce instruction complexities

Modernize infrastructure / reduce technical debt

Focus on the interface, not the underlying data

I'm going to focus on the technology and project management parts. Ben has talked some about our user experience process.

Ben has already covered our user experience work; we started with user needs, validated our designs along the way as we built out the site, and have exhaustively tested the site.

Teaching the Interface

Coordinating with library instruction staff

It matters much less where you start; you get all the options all the time

Reducing the cognitive load throughout the redesign

Technical Debt

A balloon payment was due

Pay-down old technical debt (retire multiple discovery layers built ca 2010)

Setting ourselves up for the next big project

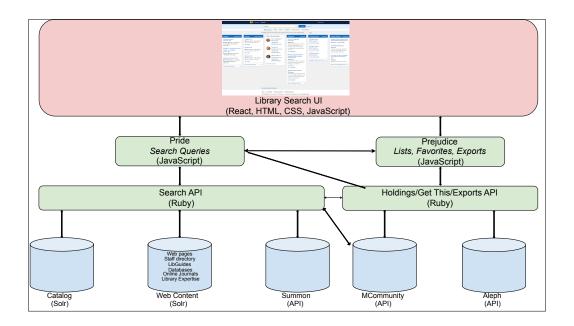
Reducing the complexity of what we maintain

Catalog based on what was VuFind when it was born, and morphed into our own thing, far from the trunk from which it sprang

Article search, database/journal finder, and bento box discovery based on Drupal 6 (and updated w/out significant change) to Drupal 7.

Our website is also in debt. But we're simplifying the loan — refinancing, in a way — to make that project easier. Cleaning up a lot of functions that were shoehorned into the "website" but that maybe shouldn't have been, with hindsight.

Building with a single architecture — all our searches work the same way (both for users, and behind the scenes). We can add functionality to all at once, while preserving the distinctions our users have told us they value.



Solr (5.5) on the back end

Our own code in the middle — "Pride" & "Prejudice" — that act as brokers:

- User queries from the front end passed on to Blacklight
- User information to show appropriate content & offerings
 - o "Get This" (page, copy, deliver) for catalog items
 - o Correct scope for Summon-delivered content
- Everything is returned to the front end as JSON objects

Extensible -- could add more indexes, or more services

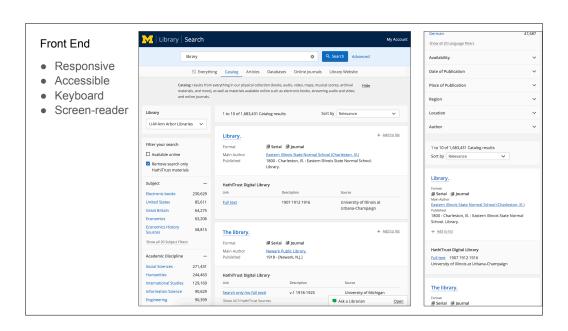
Our New Infrastructure

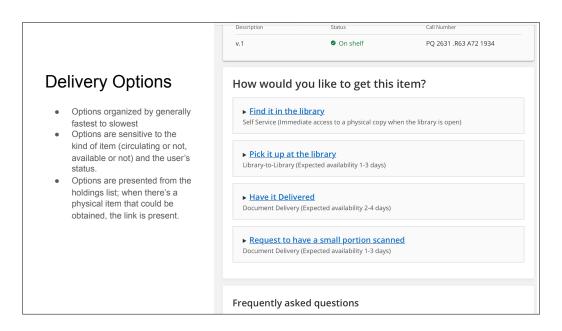
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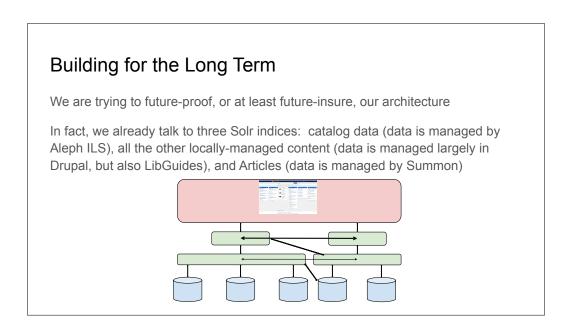
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If we should change ILS systems, as long as we can get data out of it, we should be OK for the UI. If we were to change article discovery platforms, we could do the same. And if our CMS changed, as long as we can get the data into d, we're happy.

AND.... If we change the front end to something else, the back end wouldn't care.

Thank You

Ken Varnum varnum@umich.edu

https://search.lib.umich.edu/

Code Available at https://github.com/mlibrary