Scholars@TAMU
Texas A&M University Libraries'
VIVO Conference 2019

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A little bit of History VIVO @ TAMU

2013 – Violeta Ilik introduced Texas A&M University to VIVO we started using VIVO

2014 – Running VIVO in production context

2015 – The dark ages

2016 – Relaunch VIVO with a more systematic approach of implementation

2017 – Quickly outgrow the existing UI. (Currently using VIVO 1.9.2)

Lets face it we are all special!

- We quickly outgrow most native user interfaces that ship with software. That's why we love open source. We want to change it.

- We all just want it to do something just a little bit different.

Outgrow existing UI

So we started to make changes

- Researched what was out there

- Copied code from others

- Lots of trial and error

- Hacked and slashed until we got it to do kind of what we wanted

Harvey, O. R., Kuo, L., Zimmerman, A. R., Louchouarn, P., Amonette, J. E., & Herbert, B. E. (2012). An Index-Based Approach to Assessing Recalcitrance and Soil Carbon Sequestration Potential of Engineered Black Carbons (Biochars). ENVIRONMENTAL SCIENCE & TECHNOLOGY. 46(3), 1415-1421.

DOI PubMed Altmetric 1 Citations 126

The process of doing UI changes just wasn't working for us

Nothing inherently is wrong with VIVO from a code, or technical point of view.

- Learning curve for SPARQL was steep for developers.

- VIVO showing its age from a technology stack.

- Developers just not "excited" about working on it.

Decision Time...

- The VIVO UI had to evolve for Texas A&M to continue to use it.

- A lot of interest in VIVO from across campus.

- VIVO is run out of the Library at Texas A&M so we need to maintain interest since no upper administration is "selling" it for us.

- Under a tremendous time crunch. We need to keep up the momentum of interest on campus.

Scholars@ TAMU v2

Initial requirements:

- Align the technology stack as much as possible with the existing VIVO stack to assist with implementation by others if they choose especially smaller libraries.

- The majority of the front end is customizable by others.

- Read only UI. No updating back to the triple store.

- All data is retrieved via a REST API endpoint using Spring Data for Apache Solr.

- 100% Search Engine Optimization. IE: A person / crawler can disable JavaScript and still have the same experience. Server side, and Client side rendering if needed.
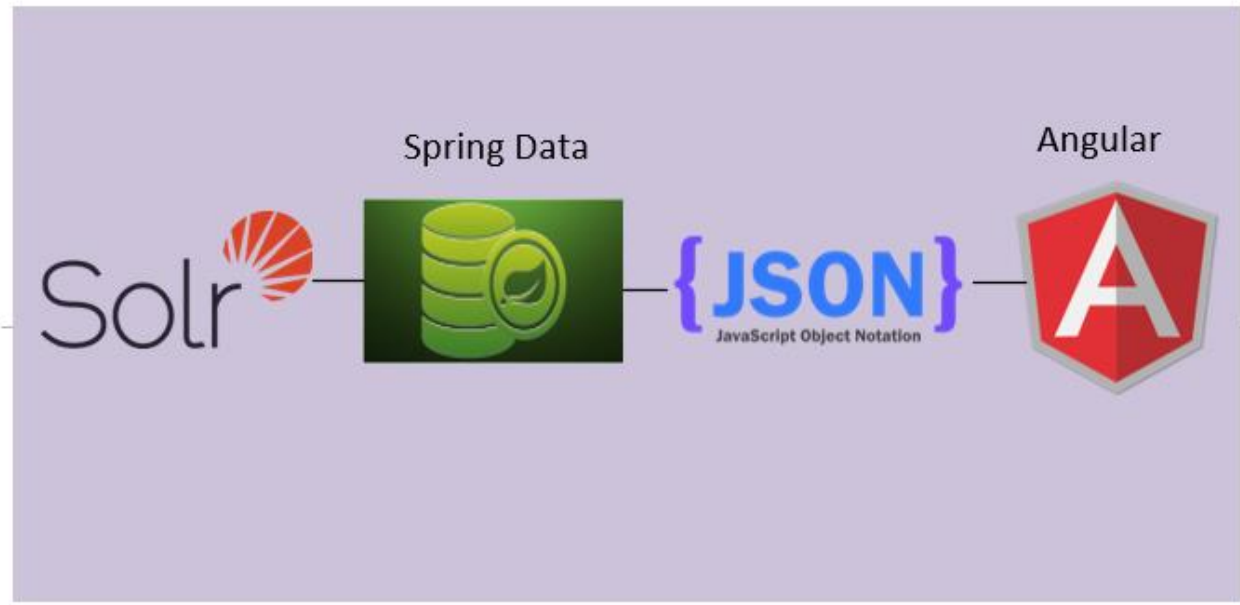
Initial concept for TAMU Scholars v2
Service Architectural diagram

Combining the effort with others

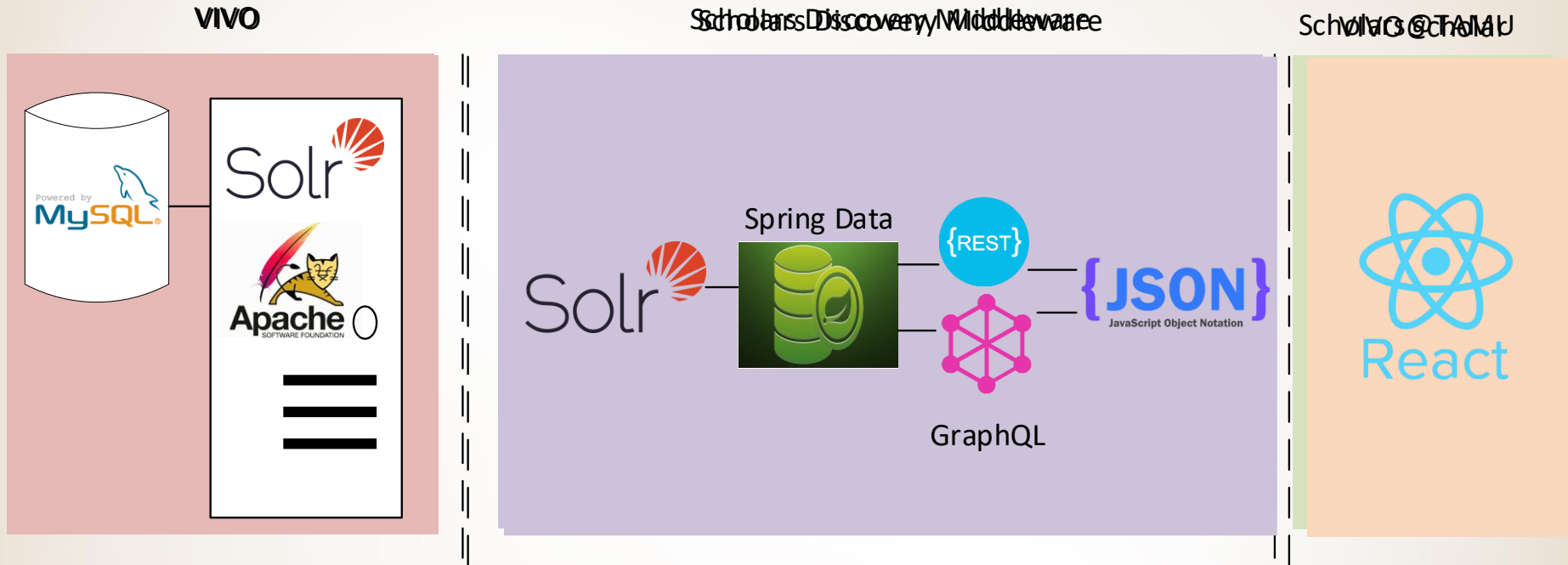A few months into TAMU's development VIVO Scholar Task Force announced a new UI being developed for VIVO.

https://wiki.duraspace.org/display/VIVO/VIVO+Scholar+Task+Force

Both projects had a common goal and we were able to merge the efforts and created the Scholars Discovery / Middleware service.

https://github.com/vivo-community/scholars-discovery

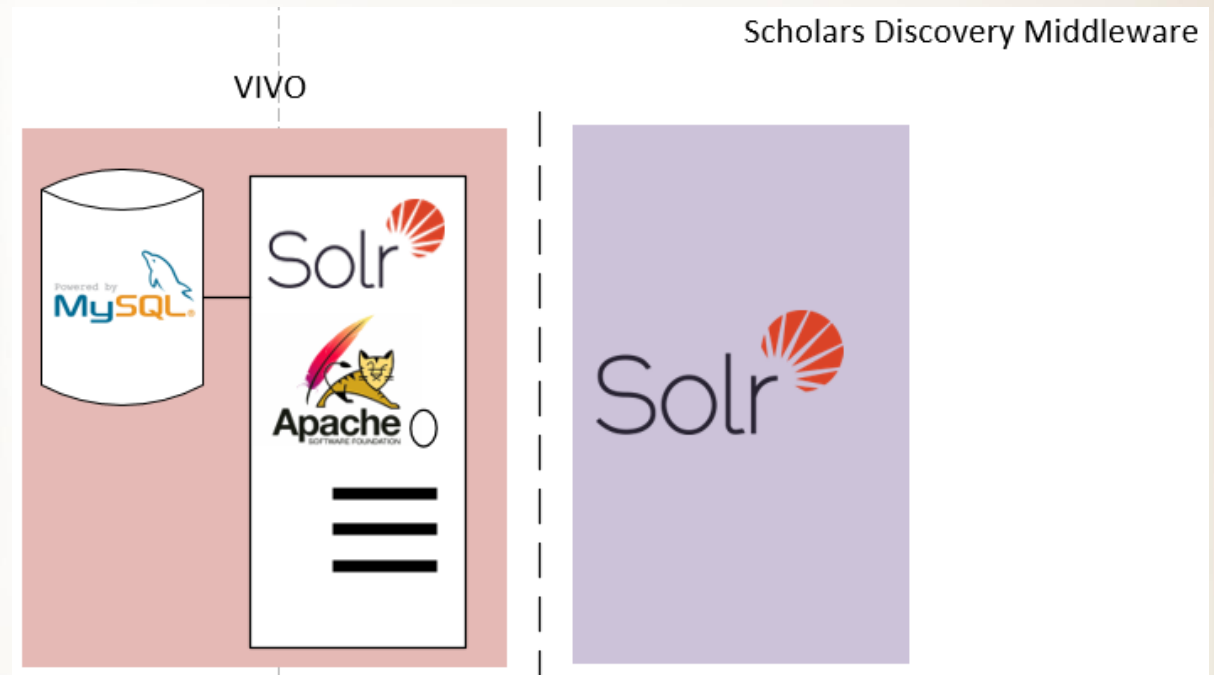# Current development for TAMU Scholars v2

Service Architectural diagram

Harvest directly from the VIVO triplestore into Solr

Basically this involves pulling the data out of VIVO, flattening it, and putting it into a Solr index

The Process

The Process

Using Spring Data for Apache Solr expose the Solr index as JSON

```
{
    id: "n3e0f7747",
    name: "Hahn, Douglas",
  - type: [
        "NonFacultyAcademic"
    ],
    image: "/file/n2505/402001311.jpg",
    thumbnail: "/file/n6636/thumbnail_402001311.jpg",
    primaryEmail: "dhahn@tamu.edu",
    phone: "1 979 458 5777",
  - websites: [
      - {
            label: "Douglas Hahn",
            id: "n3e0f7747_url",
            url: "http://library.tamu.edu/directory/people/dhahn"
        }
    ],
    orcidId: "0000-0003-4327-0476",
    preferredTitle: "IT Manager IV",
  - positions: [
      - {
            label: "IT Manager",
            id: "n36323000",
            type: "NonFacultyAcademicPosition",
          - organizations: [
              - {
                    label: "University Libraries",
                    id: "nb7f16f5c"
                }
            ]
        }
    ],
    overview: "Douglas Hahn is a Sr. IT Manager at Texas A&M University Libraries with over 20 years' experience
    degree from University of North Texas. His current interests are in the evolution of the web, and technologie
    hrJobTitle: "IT Manager IV",
  - keywords: [
        "Collection Management",
        "Library Automation",
        "Tracking",
        "Document Delivery",
        "Authentication",
        "Authorization",
        "Single Sign-on",
        "Libraries",
```

The Process

Take the JSON data apply templates and expose it in an Angular app.

31 lines (31 sloc) | 956 Bytes   Raw   Blame   History   🖥 ✏ 🗑

```html
1   <div>
2     <span class="h3">{{name}}</span>
3     <span class="ml-1"><a href="{{_links.self.href}}" download target="_blank"><i class="fa fa-link"><span class="d-none">individual record</
4     <div class="mt-1">
5       <span class="h5">{{preferredTitle}}</span>
6     </div>
7     {{#if positions}}
8     <div>
9       <span class="label">Positions:</span>
10      <ul class="list-unstyled ml-1">
11        {{#eachSortedPosition positions hrJobTitle}}
12        <li>
13          <span>{{label}}{{#if organizations}}, {{/if}}</span>
14          {{#each organizations}}
15          <span><a href="display/organizations/{{id}}">{{label}}{{#if parent}}, {{/if}}</a></span>
16          {{#each parent}}
17          <span><a href="display/organizations/{{id}}">{{label}}{{#if @last }}{{else}}, {{/if}}</a></span>
18          {{/each}}
19          {{/each}}
20        </li>
21        {{/eachSortedPosition}}
22      </ul>
23    </div>
24    {{/if}}
```

Demo

Thanks!

http://scholars.library.tamu.edu/

https://demos.library.tamu.edu/scholars-ui/

Scholars Discovery Middleware, https://github.com/vivo-community/scholars-discovery

Scholars Embed, https://github.com/vivo-community/scholars-embed

Scholars Angular, https://github.com/vivo-community/scholars-angular