Creating Javascript components to provide rich user experiences for search and browse

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What is our use case? - Problem

Develops web projects for the diffusion of the various collections that make up its academic productivity, these projects are mainly based on omeka and wordpress, so there are a lot of web platforms consuming computing resources and often generating problems of redundancy in the contents.

Collections in Avalon had been internal, administrative concepts and we needed a way for collection managers to share information about their collection while allowing users to quickly search and discover items within collections.
What is our use case? - Requirements

- Harvest the concentrated digital objects in our repository.
- The harvest must be made from client machine.
- Easy integration to any kind of web portal or CMS platform.
- Highly adaptable in terms of visual and design styles.
- Place user with context of collection (description and contact information)
- Pages should be simple, visual, responsive, and dynamic.
- Dynamic filtering of collection items.
- Still apply gated discovery.
What is our use case? - Solution
El Colegio de México

These components are easy to integrate, customizable and independent, thus easing the choice of which one to use and which not.
What is our use case? - Solution Avalon
What is our use case? - Solution

We iterated on a set of React components (inspired by blacklight_vue) within our Rails app using react-rails. These are powered by blacklight JSON results from the CatalogController and a new subclass we made for collections. These pages supplement the existing Blacklight search.

We opted to develop a family of FrontEnd components based on VueJS, which feed on the json response provided by blacklight.
What are the next steps?

- Improves the css customization
- Develop components to reuse data from hyrax for research purposes (digital humanities)
- Refine components for easy embedding on sites outside of Avalon for quick search of collections
- Increase use of components within Avalon
- Port to avalon-bundle
Will building JS components change the way we develop our Rails apps?

The JS components simplify the process of creation of digital exhibits for special collection sites, additionally it is relatively easy to integrate in any CMS technology (Omeka, Wordpress).

The decoupling of the UI from the backend is good for our code: it forces us to be more deliberate about our routes and APIs, clarifies intentions and boundaries, and allows for more creative use of our rails app.

Does it make sense to build a shared set of Samvera JS components?
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