

# 2017-02-09 DSpace 7 UI Working Group Meeting notes

## Date

09 Feb 2017

## Angular meeting

### Attendees

- Art Lowel (Atmire)
- Andrea Bollini (4Science)
- Tim Donohue
- Giuseppe Digilio (4Science)
- William Welling
- James Silas Creel (and others at A&M)
- Matteo Perelli
- Terrence W Brady
- Hardy Pottinger
- Nelson Torres
- Marc Goovaerts
- Leandro Martín
- Luis Carlos Alvarez
- Jose Acevedo

### Notes

- Backchannel on #angular-ui in Slack. Join us at <https://goo.gl/forms/s70dh26zY2cSqn2K3>
- Art's updates: <https://docs.google.com/document/d/1tWlldEwzZ826lBwAxklhnj7hFrURSLmZvu1EWfwCSjl/edit?usp=sharing> Some extra notes:
  - Mockups of HAL vs JSON-API format: <https://github.com/DSpace-Labs/hal-jsonapi-comparison>
  - Tim, Art & Andrea agreed to go with HAL
    - JSON-API is harder on serverside (requires Katharsis, which is not as well supported or up-to-date with Spring tools)
    - Spring MVC & HATEOS Framework will be used to generate HAL (on server side)
    - HAL is not all that harder to support on clientside.
      - HAL Library: [serialize](https://github.com/weichx/serialize) (<https://github.com/weichx/serialize>)
      - Art is working on a HALSerializer for Angular2 team to use
  - How do we return metadata? <https://github.com/DSpace-Labs/hal-jsonapi-comparison/blob/master/hal/hal-items.json#L26>
    - JSONPath: <https://github.com/jayway/JsonPath>
  - Running all Tests at once: <https://github.com/DSpace/dspace-angular/pull/51>
    - Goal is to run tests automatically via TravisCI (to validate PRs)
- Should we look at Yarn for dependencies: <https://yarnpkg.com/en/>
  - Seems to have nice backwards compatibility with NPM, but makes dependency management easier. Supposedly also faster
  - William: Angular Universal Starter used to use Yarn. But removed recently.
  - Art will investigate if there are reasons Universal Starter abandoned Yarn.
- William: Lodash dependency may be a problem when we update Shrinkwrap (Need to ensure we use the Typescript version)
  - **ACTION: Create a ticket to note this future issue**
- William: **Our configurations may wish to use OpaqueToken to avoid name collisions**
  - <https://angular.io/docs/ts/latest/api/core/index/OpaqueToken-class.html>
  - <https://angular.io/docs/ts/latest/guide/dependency-injection.html#!/%23dependency-injection-tokens>
  - <https://blog.thoughttram.io/angular/2016/05/23/opaque-tokens-in-angular-2.html>
  - <http://stackoverflow.com/questions/41289264/what-is-in-angular-2-opaque-token-and-whats-the-point>
- Spinner work: <https://github.com/DSpace/dspace-angular/pull/43>
  - Angular Animate?
  - Router needs to load spinner and call to stop it.
  - **ACTION: William will review the spinner and see if he has suggestions.**
- Open Repositories asked us about a Workshop on Angular / DSpace 7
  - **ACTION: Tim, Art & Andrea will decide on this soon & let everyone know**
- Waffleboard of Angular Tasks (please chip in to help): <https://waffle.io/DSpace/dspace-angular>

## REST meeting

### Attendees

- Art Lowel (Atmire)

- [Andrea Bollini \(4Science\)](#)
- [Tim Donohue](#)
- [Giuseppe Digilio \(4Science\)](#)
- [William Welling](#)
- [James Silas Creel](#) (and others at A&M)
- [Matteo Perelli](#)
- [Terrence W Brady](#)
- [Hardy Pottinger](#)
- [Nelson Torres](#)
- [Marc Goovaerts](#)
- [Leandro Martín](#)
- [Luis Carlos Alvarez Fernandez](#)
- [Jose Acevedo](#)
- [Mark H. Wood](#)

#### Notes:

- Backchannel on #rest-api on Slack. Join us at <https://goo.gl/forms/s70dh26zY2cSqN2K3>
- Do we need a list of Items in Collection response? (e.g. <https://github.com/DSpace-Labs/hal-jsonapi-comparison/blob/master/hal/hal-collections.json#L11>)
  - Items in response? <https://github.com/DSpace-Labs/hal-jsonapi-comparison/blob/master/hal/hal-collections.json#L11>
  - AGREEMENT: Switch with a single link that brings you to the collection of Items.
  - Different links per browse type (Title, Subject, Author, etc)
- Pagination of Items. What initial sort? / pagination?
- Need ability to query at two layers:
  - Index layer (Solr) - All browsing/searching of objects occurs at this layer (and basic permission filtering). This is no different from current UIs
  - Storage layer (Database) - Only for accessing individual objects or administrative functions. No pagination/filtering should be needed (other than permission filtering for admins), as we do not allow for direct browsing/searching at this layer.
- Browseable Object? discussion
  - Proposal to possibly wrap an Item/Community/Collection as a "Browseable Object"
  - A lot of discussion, but not much headway.
  - **ACTION: Andrea is going to provide mockups of what he's proposing for us to respond to**
- We will use HAL format (JSON/XML serialization) for responses
  - (NOT JSON API / Katharsis)
- Spring MVC & HATEOS Framework will be used to generate HAL
- Initial work from Andrea has begun here: <https://github.com/4Science/DSpace/tree/DS-3423-springmvc-hateoas>
  - **ACTION: Andrea will migrate this work to a "feature branch" on DSpace/DSpace GitHub**
  - Committers can contribute directly to this feature branch
  - Others can create PRs against this feature branch or ask for permissions (if they plan to be highly involved)
  - **ACTION: Create a work-in-progress PR (to easily track Travis builds)**
- Andrea will create REST Tickets in JIRA (as subtasks / code tasks of one major ticket)
  - One task is to look at <https://projects.spring.io/spring-restdocs/>
- REST API Contract
  - Very rough notes started on Wiki: [REST API Contract](#)
  - **ACTION: Andrea to start up a new "DSpace-Labs" Git repo for REST API Contract work (to allow us to collaborate easier)**
    - Eventually we may move the "finalized" mockups to this repo as well.
- **Next meeting is next week (Thurs, Feb 16 @ 16:00UTC via Slack chat)**
  - We've decided to switch to hourly weekly meetings, alternating between text chat meetings and conference call (voice) meetings
  - *Upcoming schedule:*
    - Thurs, Feb 16 @ 16:00UTC via Slack text chat updates (first 1/2 hour is in #angular-ui channel, second 1/2 hour is in #rest channel)
    - Thurs, Feb 23 @ 16:00UTC via conference call (first 1/2 hour on Angular, second 1/2 hour on REST)
    - Thurs, Mar 2 @ 16:00UTC via Slack text chat updates
    - Thus, Mar 9 @ 16:00UTC via conference call
  - This schedule is also now posted on the [DuraSpace Public Events Calendar \(iCal, RSS Feed\)](#)
  - Conference call location will be finalized/announced in near future.