

2019-01-17 DSpace 7 Working Group Meeting

Date

17 Jan 2019 from 15:00-16:00 UTC

Location: <https://duraspace.zoom.us/my/dspace> (Meeting ID: 502 527 3040).

- More connection options available at [DSpace Meeting Room](#)

Agenda

- (5 mins) General development / planning updates (Tim)
 - [DSpace 7 at OR2019](#) - Our proposals are in! Thanks all!
 - Preview Release schedule discussion with Steering Group
 - Tim will schedule a meeting of core contributors (DuraSpace, Atmire, 4Science) to discuss upcoming release schedule, brainstorm ways to speed up development/review processes and better stay on schedule.
- (20 mins) Unblocking our REST Contract PRs
 - Spring Data REST "text-uri/list" to manage links between objects. Comments from [Andrea Bollini \(4Science\)](#) on [#rest-api Slack Channel](#) (yesterday).
 - <https://github.com/DSpace/Rest7Contract/pull/34> (alternative approach: <https://github.com/DSpace/Rest7Contract/pull/42>)
 - <https://github.com/DSpace/Rest7Contract/pull/35> (alternative approach: <https://github.com/DSpace/Rest7Contract/pull/44>)
 - <https://github.com/DSpace/Rest7Contract/pull/41>
- (10 mins) Quick updates on Angular UI [tickets](#) and/or [PRs](#) (Art)
- (10 mins) Quick updates on REST API [tickets](#) and/or [PRs](#) (Andrea)
- (10 mins) General Discussion Topics
 - Planning for 7.0 Preview Release (end of January)
 - [Development Planning Spreadsheet](#).
 - Discussion of deletion of EPeople for GDPR compliance (from Pascal)
 - Pending merger of : <https://github.com/DSpace/DSpace/pull/2229>. NOTE: item.getSubmitter() will return null if EPerson deleted.
 - DSpace 7 installation/customization process. Documenting our plan/goal for 7.0
 - Updates on "One Webapp Backend" PR: <https://github.com/DSpace/DSpace/pull/2265> First example of a webapp (SWORDv1) that fully integrated & configurable.
 - Also updated docs at: [DSpace Backend as One Webapp](#)
- (5 mins) Agenda items for next meeting?

Attendees

- [Art Lowel \(Atmire\)](#)
- [Andrea Bollini \(4Science\)](#)
- [Tim Donohue](#)
- [Lieven Droogmans](#)
- [Mark H. Wood](#)
- [Giuseppe Digilio \(4Science\)](#)
- [Ben Bosman](#)
- [Pascal-Nicolas Becker](#)
- [Chris Wilper](#)
- [Terrence W Brady](#)
- [Pablo Prieto](#)

Unavailable

Notes

(Notes below copied from last meeting. Details will be updated during this meeting.)

- General Updates (Tim)
 - Tim thanks all for efforts on getting OR2019 presentations in. Full list at [DSpace 7 at OR2019](#)
 - Notes discussion at Steering Group (yesterday) that we won't make current Preview Release goal (end of Jan). Suggestion out Steering was to have a Planning meeting of core contributors (DuraSpace, Atmire, 4Science) to discuss how to update the schedule, and brainstorm ways to speed up development/review processes and better stay on schedule.
 - Tim will send out a Doodle poll this week to hopefully schedule meeting sometime next week
- Unblocking REST API PRs
 - Tim summarized discussion from last meeting & feedback from Andrea in [#rest-api Slack channel](#).
 - Lots of back and forth discussion & clarification occurred. This cannot be accurately documented, so I've summarized the decision / main points below.
 - **Final decision on managing relationships/links via PUT/POST** (this is a summary of several back & forth discussions, which finalized in these main points)
 - In general, we should be aiming to align with [Spring Data REST](#) best practices (where they exist)
 - In Spring Data REST, the best practice to create/update/manage associations (i.e. links) between resources (DSpace Objects) is to do the following:

- First, create all resources (objects) the need to be linked (via appropriate POST requests), if they are not already created
- Second, establish the relationship between resources by sending a PUT request to the main object's association endpoint, where the following is true
 - The request body of the request should be a list of URIs to link/associate with the main object
 - The request content type should be "text/uri-list".
- Better examples of this recommendation exist here <https://www.baeldung.com/spring-data-rest-relationships>
- Relationships on Object Creation (usually POST)
 - For object creation (POST of new object) in DSpace, we usually need to send the whole object representation (JSON) in the *request body*. For DSpace REST API, we've chosen to always send JSON in the request body (Content Type: application/json or application/hal+json)
 - There are some object types in DSpace that **cannot be created without a Parent Object** (i.e. without a link /association to another object). Such examples include Items (which cannot be created without a Collection) and Collections (which cannot be created without a Community)
 - In this scenario, we *cannot align directly with Spring Data REST best practices* as the POST request (to create the object) **must also specify the link/association** (with the Parent Object). The alignment is impossible in this scenario because we cannot send a single POST request that sends both JSON (application/json) content and "text/uri-list".
 - Therefore, in this scenario, we have chosen to specify the link/association **via a query parameter** in the POST request. So, for example, a new Collection is created via a *single* POST request that passes the (new) Collection data in the request body (as JSON) and the Parent Community link as a parameter (e.g. ?parent={uuid}).
 - For any object types that *can be created* without a Parent Object, we should follow Spring Data REST best practices. The object should be created first (via POST), then relationships established (via a PUT).
- Updating Relationships for existing Objects (via PUT)
 - Whenever we are *updating* links/associations between objects (via PUT requests), both resources (objects) already exist. Therefore, we *can align with Spring Data REST best practices* and send a PUT request (whose request body is the list of URIs to link to, and whose request content type is "text/uri-list").
 - **SIDENOTE:** If we tried to apply the same *query parameter exception* to this scenario, the result would be a PUT request with an empty request body (as the link/association would be sent as a query parameter).
 - This approach is generally frowned upon in REST best practices, as both POST and PUT are expected to specify their data in either the request's *body* or headers. So, sending a POST/PUT with no body would be equivalent to sending a request to create a new empty object. In other words, the main data of a PUT or POST request is expected to be sent in the *body of the request* – so, a request with no body is a request that sends no data.
 - Related discussions on StackOverflow: <https://stackoverflow.com/q/1619302/3750035>, <https://stackoverflow.com/a/1233569/3750035> and <https://stackoverflow.com/a/7326648/3750035>
- **We did not get to any of the below topics (as discussion went long).** Below notes are carried over from last week. Any updates or requests for more feedback should be made on Slack.
- Angular Team Updates (Art)
 - Merged PRs:
 - In Progress tickets / PRs:
 - Tickets / PRs requiring review:
 - <https://github.com/DSpace/dspace-angular/pull/349> (Highest Priority)
 - <https://github.com/DSpace/dspace-angular/pull/350> (based on same branch as 349)
 - <https://github.com/DSpace/dspace-angular/pull/348> (based on same branch as 348)
 - <https://github.com/DSpace/dspace-angular/pull/347> (end goal to support PATCHes of Metadata)
 - <https://github.com/DSpace/dspace-angular/pull/342> (Item Actions - NEED Demo REST API Update)
 - <https://github.com/DSpace/dspace-angular/pull/335> (BLOCKED by REST Contract discussions about Move Item)
 - <https://github.com/DSpace/dspace-angular/pull/329> (Merge conflicts need fixing)
 - Submission/Workflow PR: <https://github.com/DSpace/dspace-angular/pull/279>
 - Giuseppe says this will be ready for final review by Monday, January 14. He will ping us
 - **ACTION:** Anyone who has added past comments (that are now fixed), please go in and *resolve your past comments* once you've verified the fix. That'll help us figure out what is outstanding (if anything)
- REST Team Updates
 - Open PRs: <https://github.com/DSpace/DSpace/pulls?q=is%3Apr+is%3Aopen+label%3A%22REST+API+v7%22+sort%3Aupdated-desc>
 - Merged PRs:
 - In Progress tickets / PRs:
 - Tickets / PRs requiring review:
 - **REST Contract tickets blocking other work (High Priority to get unblocked)**
 - Request to use Spring Data REST "text-uri/list" to manage links between objects (Resources: <https://docs.spring.io/spring-data/rest/docs/current/reference/html/#repository-resources.association-resource> and <https://www.baeldung.com/spring-data-rest-relationships>)
 - <https://github.com/DSpace/Rest7Contract/pull/34>
 - <https://github.com/DSpace/Rest7Contract/pull/35>
 - <https://github.com/DSpace/Rest7Contract/pull/41>
 - **ACTION:** Tim Donohue will reach out to Andrea Bollini (4Science) to understand whether we can move forward with parameters for now, and update this contract/implementation later. It's unclear to the team why these three tickets are blocked for Spring Data REST alignment, while others that involve links/associations (e.g. [PR#37](#) (Item CRUD) and [PR#38](#) (Metadata Registry)) were approved.
 - Should we consider fixing all these implementations to better align with Spring Data REST recommendations (perhaps in a future Ticket/PR)?
 - **ACTION:** We need to better document the requirements / best practices for our REST API. Currently alignment with Spring Data REST is not mentioned in our REST Contract README: <https://github.com/DSpace/Rest7Contract/blob/master/README.md>
 - Updating Collection/Community contracts (**Requires re-review**)
 - Feedback from Andrea, but needs re-review
 - <https://github.com/DSpace/Rest7Contract/pull/33>

- Metadata as a Map (**Requires re-review**)
 - REST Contract: <https://github.com/DSpace/Rest7Contract/pull/39>
 - Contract: [https://github.com/DSpace/Rest7Contract/pull/39](#) (4Science)
 - Unable to locate Jira server for this macro. It may be due to Application Link configuration.
 - <https://github.com/DSpace/DSpace/pull/2287>
 - Angular: <https://github.com/DSpace/dspace-angular/pull/347>
- Metadata Registration
 - Unable to locate Jira server for this macro. It may be due to Application Link configuration.
 - <https://github.com/DSpace/Rest7Contract/pull/38>
 - REST: <https://github.com/DSpace/DSpace/pull/2291>
- Administrative Interface
 - Unable to locate Jira server for this macro. It may be due to Application Link configuration.
 - <https://github.com/DSpace/Rest7Contract/pull/37>
 - REST: <https://github.com/DSpace/DSpace/pull/2290>
- (Did not discuss) (Ticket)
 - Ticket: Unable to locate Jira server for this macro. It may be due to Application Link configuration.
 - PR: [https://github.com/DSpace/Rest7Contract/pull/37](#)
 - **ACTION: ALL will add comments/thoughts to DS-4036 so we can finalize a decision on whether null EPersons are OK or not.**
- (Did not discuss) DSpace 7 installation/customization process.
 - Updated PR could use more eyes: <https://github.com/DSpace/DSpace/pull/2265>
 - See also early docs at: [DSpace Backend as One Webapp](#)
- Development planning/updates in [Development Planning Spreadsheet](#).
- The Next Meeting will be Thurs, Jan 24 at **15:00UTC** (10:00am EST) in [DSpace Meeting Room](#)