2018-08-23 DSpace 7 Working Group Meeting

Date
23 Aug 2018 from 14:00-15:00 UTC

Location: DSpace Meeting Room

Agenda

- General development / planning updates (Tim)
  - Sprint Planning: DSpace 7 Community Sprints
  - DSpace 7 Entities Working Group
- Quick updates on Angular UI tickets and/or PRs (Art)
- Quick updates on REST API tickets and/or PRs (Andrea)
- Discussion of Exception Handling in Spring (establish our best practices)
- Scheduling next DSpace 7 Community Sprints
- [Last 10 mins] Development planning/updates in Development Planning Spreadsheet.

Attendees

- Art Lowel (Atmire)
- Andrea Bollini (4Science)
- Tim Donohue
- Pablo Prieto
- Mark H. Wood
- Bill Tantzen
- Tom Desair
- Pascal-Nicolas Becker
- Terrence W Brady

Notes

- General Updates (Tim)
  - DSpace 7 Entities Working Group announcement today.
- Angular Team Updates
  - Merged PRs:
    - https://github.com/DSpace/dspace-angular/pull/271
    - https://github.com/DSpace/dspace-angular/pull/276
  - In Progress tickets / PRs:
  - Tickets / PRs requiring review:
    - Kristoff’s Browse By Title / Metadata Pull Request: https://github.com/DSpace/dspace-angular/pull/283
      - Needs tests/reviews. Tim still looking to review
    - Lotte’s final Search PR now ready: https://github.com/DSpace/dspace-angular/pull/280
      - Tim will rereview
    - Giuseppe’s PR: https://github.com/DSpace/dspace-angular/pull/279
      - Art has reviewed and has added comments. Mostly looks OK, but noticed issues with automatic metadata extraction. See comments on PR
      - Giuseppe returns next week
    - Art looking for feedback on the new Janitor PR: https://github.com/DSpace/dspace-angular/pull/287
      - Terry has looked at it and asked some questions.
      - Seems reasonable overall, but no one actively using Janitor yet. Still seems like an opportunity.
  - Find by UUID endpoint discussions have now been resolved. Will unblock Lotte’s PR
    - Discussion on Slack. All have approved the approach in this PR https://github.com/DSpace/DSpace/pull/2179
    - Tim will merge PR and redeploy to Demo Site (UPDATE: Done, see also new docs on this process, Updating DSpace 7 Demo Sites)
- REST Team Updates
  - Merged PRs:
  - In Progress tickets / PRs:
  - Tickets / PRs requiring review:
    - https://github.com/DSpace/DSpace/pull/1976
      - Almost ready to go. Needs integration tests. Mark is working on them
    - https://github.com/DSpace/DSpace/pull/2173 (*"Starts With" endpoint)
      - The actual implementation of the endpoint looks fine.
      - But, the behavior is actually surprising – as "Starts with" isn't really jumping to a specific page/offset in the entire list. Instead, it "filters" the list of results to only ones that "Start With" a specific letter(s) and any letter after that. This behavior seems different from 6.x, but unsure as to why
      - Pablo Prieto will investigate how this works in 6.x and report back.
    - https://github.com/DSpace/DSpace/pull/2175 (new metadata as resource endpoint / idea)
      - Idea/concept sounds good overall
• Andrea expressed some possible concerns about using RestRepository for the implementation – usually that's used for new endpoints, and this is more like a subpath / sub-endpoint.
• Andrea will look at it further though, and report back his concerns & suggestions in the PR itself
  • https://github.com/DSpace/DSpace/pull/2111 (Hibernate deprecation updates)
• Almost ready to merge. Fixed minor issues noted by Tim
• Tim to rereview (DONE)
• Terry also to review (DONE)
• Art asks about the REST API implementation for Submission/Workflow. Is it ready?
  • It has two PRs, but both need more work. No integration tests yet, and have fallen out of date with master (merge conflicts)
  • https://github.com/DSpace/DSpace/pull/2102
  • https://github.com/DSpace/DSpace/pull/2103
• Andrea Bollini (4Science) plans to work on this (as Andrea P is on holiday). Will also look into splitting them up more, as the PRs are massive and hard to review.

Discussion
• Exception Handling in Spring / REST API
  • We wrap most of our Exceptions in REST API in RuntimeException, e.g. https://github.com/DSpace/DSpace/blob/master/dspace-spring-rest/src/main/java/org/dspace/app/rest/repository/ItemRestRepository.java#L71
  • Andrea notes the reason for this is that we are extending Spring Data Rest and cannot change the method signatures. For example, in this class: https://github.com/DSpace/DSpace/blob/master/dspace-spring-rest/src/main/java/org/dspace/app/rest/repository/DSpaceRestRepository.java#L42
  • We do have a single “handler” of Exceptions in our REST API at: https://github.com/DSpace/DSpace/blob/master/dspace-spring-rest/src/main/java/org/dspace/app/rest/exception/DSpaceApiExceptionControllerAdvice.java
  • Our wrapping of everything in RuntimeException was mostly just for speed of development early on. We should fix this.
  • The best practice from Spring Data REST though is to use other custom exceptions (which all extend RuntimeException), e.g. https://docs.spring.io/spring-framework/docs/current/javadoc-api/org/springframework/dao/DataAccessException.html
  • Spring has more of these Runtime based exceptions at https://docs.spring.io/spring-framework/docs/current/javadoc-api/org/springframework/core/NestedRuntimeException.html
  • Our Best Practice: We should refrain from using “RuntimeException” directly, and instead look to use Spring Data Rest Exceptions (like “DataAccessException”) which extend RuntimeException. If we find we need a new exception type, we should create it.
  • Andrea Bollini (4Science) will create a ticket to describe this. DONE: DS-3992 - Data cannot be retrieved due to an unexpected error.

Next DSpace
• Tentative for first two weeks of October. Week of October 1 and 8.

Development Planning Spreadsheet
• Skipped this for today, as we ran out of time.
• Next week, continue from Submission section
• The Next Meeting will be on Thursday, Aug 30 at 14:00UTC (10:00am EDT) in DSpace Meeting Room
• Travel / Holidays
  • Giuseppe Digilio (4Science) will be out until week of Aug 27