DevMtg 2017-10-11

Developers Meeting on Weds, Oct 11, 2017

Today's Meeting Times
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- DSpace Developers Meeting / Backlog Hour: 20:00 UTC in #duraspace IRC **or** #dev-mtg Slack channel (these two channels sync all conversations)
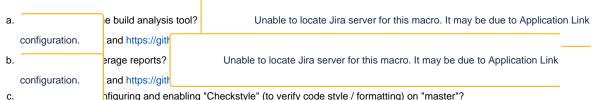 - Please note that all meetings are publicly logged

Agenda

Quick Notes / Reminders

- DSpace 7 Working Group (2016-2023) meeting**:** TOMORROW, Oct 12 at 15:00 UTC (11:00am EDT) in Google Hangouts. See wiki page for meeting details and notes.
  - DSpace 7 UI Mockups - Watch this page for UI/UX mockups that are currently under discussion, etc.
- (NEW) DSpace Entities Working Group (2017-18): Friday, Oct 13 at 15:00UTC (11:00am EDT). See wiki page for meeting details and notes.

Discussion Topics

1. (*Ongoing Topic*) DSpace 7 Status Updates for this week

   a. Enabled Coveralls to track test coverage: https://coveralls.io/github/DSpace/dspace-angular (See also Code Mgmt Tools discussion below, which came up as part of DSpace 7 discussions)
   b. Team is currently concentrating on building out search functionality & submission functionality
2. Code Mgmt Tools: Do we want to enable more automated code analysis tools on "master" codebase? (e.g. Code Test Coverage, ErrorProne, CheckStyle, etc).

   a.   e build analysis tool?   Unable to locate Jira server for this macro. It may be due to Application Link

      configuration.   and https://gith

   b.   erage reports?   Unable to locate Jira server for this macro. It may be due to Application Link

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   c.   nfiguring and enabling "Checkstyle" (to verify code style / formatting) on "master"?
      i. Maven-checkstyle-plugin can automate this (even as part of build process): https://maven.apache.org/plugins/maven-checkstyle-plugin/usage.html
      ii. For example, Fedora project uses maven-checkstyle-plugin with their own style configuration: https://github.com/fcrepo4/fcrepo-build-tools/blob/master/src/main/resources/fcrepo-checkstyle/checkstyle.xml
      iii. **Pros:**
           1. Some IDEs (e.g. IntelliJ IDEA, Eclipse) let you import a Checkstyle configuration file to define the code style the IDE will use. (Uncertain if this is supported in Netbeans however)
           2. It will force us to keep to the same code style. This makes code easier to read/debug.
           3. If configured during build process, Travis will catch formatting issues for us in PRs (and display them as build errors). This is similar to how we already manage/require file license header checks.
      iv. **Cons:**
           1. Enabling this during build process will require us to reformat a large number of files in "master". (Tim checked)   However, this reformatting can be mostly automated using IntelliJ IDEA (so it wouldn't be a manual process)
           2. May make cherry-picking PRs a bit more difficult between "master" and "dspace-6_x" (as making this update to "master" may cause many minor formatting conflicts)
           3. Could get a bit annoying to newer developers, unless we make it clear how to configure their IDE to format their PRs properly (However, see Pro #1, some IDEs let you simply import the checkstyle configuration)
3. DSpace 7 REST Testing Framework

   a. https://github.com/DSpace/DSpace/pull/1866
   b. Example test of /browses endpoint: https://github.com/atmire/DSpace/blob/31e28563b0e9bc44478e5cc7010c2fa72b667cb4/dspace-spring-rest/src/test/java/org/dspace/app/rest/BrowsesResourceControllerTest.java
4. DSpace High Priority Tickets

   a. High Priority (Blocker, Critical or Major) and flagged for release

key	summary	type	created	updated	assignee	reporter	priority	status	fixversions

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   b. Need Code Review, Flagged for Release

key	summary	type	created	updated	assignee	reporter	priority	status	fixversions

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5. Other Tickets needing discussion / attention? (*Please feel free to add any you wish to discuss under this topic*)
6. Ongoing discussion topics:
   a. Management of database connections for DSpace going forward (7.0 and beyond). What behavior is ideal? Also see notes at DSpace Database Access
      i. In DSpace 5, each "Context" established a new DB connection. Context then committed or aborted the connection after it was done (based on results of that request). Context could also be shared between methods if a single transaction needed to perform actions across multiple methods.
      ii. In DSpace 6, Hibernate manages the DB connection pool. Each **thread** grabs a Connection from the pool. This means two Context objects could use the same Connection (if they are in the same thread). In other words, code can no longer assume each `new Context()` is treated as a new database transaction.
         1. Should we be making use of `SessionFactory.openSession()` for READ-ONLY Contexts (or any change of Context state) to ensure we are creating a new Connection (and not simply modifying the state of an existing one)? Currently we always use `SessionFactory.getCurrentSession()` in HibernateDBConnection, which doesn't guarantee a new connection: https://github.com/DSpace/DSpace/blob/dspace-6_x/dspace-api/src/main/java/org/dspace/core/HibernateDBConnection.java
7. Reviewing JIRA Tickets or PRs
   a. Please feel free to bring any that need eyes / immediate discussion
   b. JIRA Backlog of "Received" tickets
   c. All open PRs

Ticket Summaries

1. Help us test / code review! These are tickets needing code review/testing and flagged for a future release:

key	summary	type	created	updated	assignee	reporter	priority	status	fixversions

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2. Newly created tickets this week:

key	summary	type	created	assignee	reporter	priority	status

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3. Old, unresolved tickets with activity this week:

key	summary	type	created	updated	assignee	reporter	priority	status

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4. Tickets resolved this week:

key	summary	type	created	assignee	reporter	priority	status	resolution

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5. Tickets requiring review. This is the JIRA Backlog of "Received" tickets:

key	summary	type	created	updated	assignee	reporter	priority

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Meeting Notes

Meeting Transcript

- IRC Transcript is available at - http://irclogs.duraspace.org/index.php?date=2017-10-11