TestNG vs Spock

Grouping/Suites

* TestNG – Annotation Attributes
  + Nested in the test itself
  + Allows for changes in one location instead of two/multiple
  + Gradle will execute each test in parallel
* Spock – TestSuite class
  + Create a new class to have JUnit Runner run the suite
  + When test groupings get changed (broken) it has to be changed in more than one location
  + Easy to forget to add a test to a suite
  + The entire suite gets executed in parallel, so tests run linearly

Assertions

* TestNG
  + Soft and Hard Asserts
    - Beneficial for verification
  + No ‘Then’ statement forcing assertions
* Spock
  + No Soft Assertions
  + Everything under a ‘Then’ statement is asserted
    - May add additional unneeded ‘When’ statements

Test Format

QA is moving to a step, action, expected format.

|  |  |  |
| --- | --- | --- |
| 1 | Navigate to Bloom | User is on the Bloom login page |
| 2 | Login | User is on the landing page |
| 3 | Click Logout | User is directed to the login page and loses access to the system |

* TestNG
  + Leads to similar actions or grouping of actions
* Spock
  + There isn’t a direct translation to groups of steps. Have to think about the proper labels to really explain what’s going on.

Data Driving

Not likely we will be using this feature

* TestNG
  + DataProvider annotation: <http://testng.org/doc/documentation-main.html#parameters-dataproviders>
* Spock
  + Data Tables: <http://spock-framework.readthedocs.org/en/latest/data_driven_testing.html>