Scenario #: 4

Scenario Description: Query Test Item Bank

- The Test Item Bank will provide query API's for use by Test Authoring and Test Packaging

Version Control

Version #	Date	Author	Description
1.0	01/14/2013	Russ Hammond	Initial Draft
1.1	1/26/2013	Russ Hammond	Added URL's for endpoints, added related requirements

Test Scripts

The following scripts will cover this scenario:

- 4.1 Query by item id
- 4.2 Query by item id and version for latest version.
- 4.3 Query by item id and version for old version of item.
- 4.4 Query by item id for non-existent item
- 4.5 Query by searchable metadata for a set of items, single criteria, match found
- 4.6 Query by searchable metadata for a set of items, single criteria, no match found
- 4.7.Query by searchable metadata for a set of items, multiple criteria
- 4.8 Execute a query which fails due to database error

Test Components/Requirements

This test scenario covers the following high-level test requirements (see scripts below for specific requirements covered by each test script):

- Test Item Bank
- Test Item Bank Requirements RADTIB.3.x, RADTIB.4.x

User Groups

- Test Authors
- Test Packager

Script #: 4.1 – Query by Item ID

Script Description

- Query the Test Item Bank for an item using the item id

Testing Requirements

This test script covers the following specific testing requirements:

- RADTIB.4.2
- RADTIB.4.3

Setup

- Test Item Bank must be deployed on CloudFoundry, with MongoDB operational
- QA staff must have Rest Client available to perform test
- Clean all existing data out of database.
- Load all Scenario 4 items

Teardown

- none

Step #	Test Action	Expected Results	Pass/ Fail
1	Access the Rest Client	Rest Client viewed in Chrome Browser	
2	Enter the URL for the query in the REST Client http://{server-context}/item/apiitem_SQA400 Search for item SQA400	None	
3	Press "Send"	• Current item metadata will be returned for latest item version, 2.1 • Query is logged	

Test Execution

Date/Time	Tester	Test ID	Test Phase	Status
1/30/2013	RDH		1	Passed

1/30/2013	RM		1	Passed

Script #: 4.2 – Query by Item ID and version for latest version

Script Description

- Query the Test Item Bank for an item using the item id and a version which is the latest version

Testing Requirements

This test script covers the following specific testing requirements:

- RADTIB.4.2
- RADTIB.4.3

Setup

- Test Item Bank must be deployed on CloudFoundry, with MongoDB operational
- QA staff must have Rest Client available to perform test
- Multiple versions of an item exist in the Test Item Bank

Teardown

- None –Script Steps

Step #	Test Action	Expected Results	Pass/ Fail
1	Access the Rest Client	Rest Client viewed in Chrome Browser	
2	Enter the URL for the query in the REST Client http://{server-context}/itemContent/apipitem_SQA401/?version=2.1 Query for SQA401, version 2.1	None	
3	Press "Send"	• Item content will be returned for SQA401, v 2.1 • Query is logged	

Test Execution

Date/Time	Tester	Test ID	Test Phase	Status
1/30/2013	RDH		1	Passed
1/30/2013	RM		1	Passed

Script #: 4.3 – Query by Item ID and Version for an Old version

Script Description

- Query the Test Item Bank for an item using the item id and the number of an old version

Testing Requirements

This test script covers the following specific testing requirements:

- List all requirements covered by this script – this ensures traceability across all phases of the project

Setup

- Test Item Bank must be deployed on CloudFoundry, with MongoDB operational
- QA staff must have Rest Client available to perform test
- Multiple versions of an item exist in the Test Item Bank

Teardown

- None –Script Steps

Step #	Test Action	Expected Results	Pass/ Fail
1	Access the Rest Client	Rest Client viewed in Chrome Browser	
2	Enter the URL for the query in the REST Client http://{server-context}/item/apipitem_SQA402/?version=1.0 Query for SQA402., v1.0	None	
3	Press "Send"	- Item content will be returned for the old version for SQA402, v1.0 - Item Keywords should be **Vehicles,** not "Trucks, Planes" - Query is logged	

Test Execution

Date/Time	Tester	Test ID	Test Phase	Status
1/30/2013	RDH		1	Passed
1/30/2013	RM		1	Passed

Script #: 4.4– Query by Item ID for non-existent item

Script Description

- Query the Test Item Bank for an item using the item id and the number of an old version

Testing Requirements

This test script covers the following specific testing requirements:

- RADTIB.4.x

Setup

- Test Item Bank must be deployed on CloudFoundry, with MongoDB operational
- QA staff must have Rest Client available to perform test
- Multiple versions of an item exist in the Test Item Bank

Teardown

- None –Script Steps

Step #	Test Action	Expected Results	Pass/Fail
1	Access the Rest Client	Rest Client viewed in Chrome Browser	
2	Enter the URL for the query in the REST Client http://{server-context}/item/apipitem_ZZZ401 Query for ZZZ401	None	
3	Press "Send"	• Query is successful, with 0 result rows • Query is logged	

Test Execution

Date/Time	Tester	Test ID	Test Phase	Status
1/30/2013	RDH		1	Passed
1/30/2013	RM		1	Passed

Script #: 4.5– Query by Searchable Metadata, single criteria, match found

Script Description

- Query the Test Item Bank for an item using a single piece of searchable metadata

Testing Requirements

This test script covers the following specific testing requirements:

- RADTIB.4.2
- RADTIB.4.3

Setup

- Test Item Bank must be deployed on CloudFoundry, with MongoDB operational
- QA staff must have Rest Client available to perform test
- Items matching criteria exist in the database

Teardown

- None –Script Steps

Step #	Test Action	Expected Results	Pass/ Fail
1	Access the Rest Client	Rest Client viewed in Chrome Browser	
2	Enter the URL for the query in the REST Client http://{server-context}/item/?{key}={value(s)} Search for Grade=9	None	
3	Press "Send"	• Return metadata for latest version 2.1 of matching items SQA400-409 • Query is logged	
4	Search for ItemType =MC	• Return metadata for latest version 1.5 of matching items SQA410-419 • Query is logged	
5	Search for status=FT	• Return metadata for latest version 1.5 of matching items	

Step #	Test Action	Expected Results	Pass/Fail
		SQA420-429 • Query is logged	
6	Search for keyword=Birds	• Return metadata for latest version 1.5 of matching items SQA430-439 • Query is logged	
7	Search for Grade = 1	• Return metadata for latest version 1.5 of matching items SQA440-449 • Query is logged	
8	Search for Subject = ART	• Return metadata for latest version 1.5 of matching items SQA450-459 • Query is logged	
9	Search for Subcategory = RRRR	• Return metadata for latest version 1.5 of matching items SQA460-469 • Query is logged	
10	Search for Writer=FRED	• Return metadata for latest version 1.5 of matching items SQA470-479 • Query is logged	
11	Search for Source = DRC	• Return metadata for latest version 1.0 of matching items SQA480-489 • Query is logged	
12	Search for difficulty=SIMPLE	• Return metadata for latest version 1.0 of matching items SQA490-499 • Query is logged	

Test Execution

Date/Time	Tester	Test ID	Test Phase	Status
1/30/2013	RDH		1	Passed
1/30/2013	RM		1	Passed

Script #: 4.6a– Query by Searchable Metadata, single criteria, no match found in current metadata

Script Description

- Query the Test Item Bank for an item using a single piece of searchable metadata

Testing Requirements

This test script covers the following specific testing requirements:

- RADTIB.4.2
- RADTIB.4.3

Setup

- Test Item Bank must be deployed on CloudFoundry, with MongoDB operational
- QA staff must have Rest Client available to perform test
- No items matching criteria exist in the database

Teardown

- None –Script Steps

Step #	Test Action	Expected Results	Pass/ Fail
1	Access the Rest Client	Rest Client viewed in Chrome Browser	
2	Enter the URL for the query in the REST Client http://{server-context}/item/?{key}={value(s)} Search for Grade=14	None	
3	Press "Send"	• Query is successful but returns 0 items. • Query is logged	

Test Execution

Date/Time	Tester	Test ID	Test Phase	Status
1/30/2013	RDH		1	Passed

1/30/2013	RM		1	Passed

Script #: 4.6b– Query by Searchable Metadata, single criteria, match found in old metadata

Script Description

- Query the Test Item Bank for an item using a single piece of searchable metadata

Testing Requirements

This test script covers the following specific testing requirements:

- RADTIB.4.2
- RADTIB.4.3

Setup

- Test Item Bank must be deployed on CloudFoundry, with MongoDB operational
- QA staff must have Rest Client available to perform test
- Old version of an item has matching keyword

Teardown

- None –Script Steps

Step #	Test Action	Expected Results	Pass/ Fail
1	Access the Rest Client	Rest Client viewed in Chrome Browser	
2	Enter the URL for the query in the REST Client http://{server-context}/item/?{key}={value(s)} Search for Keyword=Vehicles	None	
3	Press "Send"	• Query is successful but returns 0 items. Only CURRENT metadata is to be searched. • Query is logged	

Test Execution

Date/Time	Tester	Test ID	Test Phase	Status
1/30/2013	RDH		1	Passed

1/30/2013	RM		1	Passed

Script #: 4.7– Query by Searchable Metadata, multiple criteria

Script Description

- Query the Test Item Bank for an item using a multiple pieces of searchable metadata

Testing Requirements

This test script covers the following specific testing requirements:

- RADTIB.4.2
- RADTIB.4.3

Setup

- Test Item Bank must be deployed on CloudFoundry, with MongoDB operational
- QA staff must have Rest Client available to perform test
- Items matching criteria exist in the database

Teardown

- None –Script Steps

Step #	Test Action	Expected Results	Pass/Fail
1	Access the Rest Client	Rest Client viewed in Chrome Browser	
2	Enter the URL for the query in the REST Client http://{server-context}/item/?{key}={value(s)} Search for Keyword=Trucks, Planes and Grade=9	None	
3	Press "Send"	• Query returns the latest version of the matching items, SQA400-409. • Query is logged	
4	Search for Source=DRC and Grade	• Query returns the latest version	

Step #	Test Action	Expected Results	Pass/ Fail
	= 8	of the matching items, SQA485 • Query is logged	
5	Search for Subject=ART and Grade=1	• No matching items are found • Query is logged	

Test Execution

Date/Time	Tester	Test ID	Test Phase	Status
1/30/2013	RDH		1	Passed
1/30/2013	RM		1	Passed

Script #: 4.8– Execute a query which fails

Script Description

- Query the Test Item Bank for an item using a single piece of searchable metadata

Testing Requirements

This test script covers the following specific testing requirements:

- RADTIB.4.4

Setup

- Test Item Bank must be deployed on CloudFoundry, with MongoDB operational

- QA staff must have Rest Client available to perform test

- Database is shut down, or redirected to database without the requested collections

Teardown

- None –Script Steps

Step #	Test Action	Expected Results	Pass/Fail
1	Access the Rest Client	Rest Client viewed in Chrome Browser	
2	Enter the URL for the query in the REST Client http://{server-context}/item/?{key}={value(s)}	None	
3	Press "Send"	• An error message is logged	
4	Query MongoDB to verify results		

Test Execution

Date/Time	Tester	Test ID	Test Phase	Status
1/30/2013	RDH		1	Passed
1/30/2013	RM		1	Passed