Metacat - Feature #5810

Implement SOLR-based search

01/24/2013 12:26 PM - ben leinfelder

Status:	Closed		**Start date:**	01/24/2013
Priority:	High		**Due date:**	
Assignee:	Jing Tao		**% Done:**	100%
Category:	metacat		**Estimated time:**	0.00 hour
Target version:	2.1.0		**Spent time:**	0.00 hour
Bugzilla-Id:	5810			

Description

This will be an implementation of the DataONE MNQuery() methods.

Subtasks:

Task # 5907: Integrate metacat-index build in Metacat build	**Closed**
Task # 5908: Investigate EAR deployment of all Metacat webapps	**Rejected**
Task # 5909: Design configuration for metacat-index	**Resolved**
Task # 5819: MN query for SOLR	**Resolved**
Task # 5906: Implement MetacatSolrIndex class	**Resolved**
Task # 5820: Incorporate DataONE indexing	**Resolved**
Task # 5822: Enforce access control for SOLR-based search implementation	**Resolved**
Task # 5904: Design mechanism to enforce access policy	**Resolved**
Task # 5905: Implement access control filter	**Resolved**
Task # 5883: Create unit tests to exercise Metacat SOLR query/index features	**Closed**
Task # 5884: Document solr-based Metacat indexing in user docs (RST format)	**Closed**
Task # 5918: Separate unit tests from integration tests	**Closed**
Task # 5921: Design and implement Metacat-Index module	**Closed**
Task # 5922: Modify the solr index configuration for the resource map	**Closed**
Task # 5923: Discover missed documents and queue them for indexing	**Closed**
Task # 5926: Metacat-index doesn't build solr index during a Metadata inserting document	**Resolved**
Task # 5943: Eliminate the unnecessary Systemmetadata event between the Metacat and Met...	**Resolved**
Task # 5944: Metacat-index need an IndexEvent and IndexEventLog mechanism	**Closed**
Task # 5945: Implement reindex action for individual PID	**Closed**
Task # 5924: Add the configuration page for the Solr server in the Metacat configuratio...	**Closed**
Task # 5927: Implements listing the query engines and fields for the solr query engine	**Resolved**
Task # 5928: Make sure to start metacat-index web apps when the metacat web apps is sta...	**Closed**
Task # 5930: Add a configuration property to turn on/off the indexing processes (SOLR i...	**Closed**
Task # 5937: The solr indexes of the data file contains obsoleted ids for the resourcem...	**Closed**
Task # 6004: Figure out why there are only 422 documents indexed in mn-demo-4.test.data...	**Resolved**
Task # 6005: Incomplete solr index for the data objects if the resourcemap was indexed ...	**Closed**

Related issues:

Related to Metacat - Bug #5395: Get unexpected result if a search was done be...	**Rejected**	05/05/2011
Related to Metacat - Bug #4442: Spatial indexing should not run and block met...	**New**	10/07/2009
Blocks Metacat - Bug #5815: Integrate Lucene indexing	**Resolved**	01/24/2013
Blocks Metacat - Bug #5816: REST for Lucene index	**Resolved**	01/24/2013
Blocks Metacat - Bug #5817: MN query for Lucene index	**Resolved**	01/24/2013
Blocks Metacat - Bug #5812: Rework default skin[s] to use SOLR query	**Closed**	04/18/2013

History

#1 - 02/25/2013 07:47 AM - ben leinfelder

MNQuery.listQueryEngines() will return these engines: {"pathquery", "solr"} and we'd call MNQuery.query("solr", <solrQuerySyntax>) to get a stream of solr results back depending on the structure of the original query (might return xml or json etc).

See:

#2 - 03/13/2013 03:48 PM - Jing Tao

Where "Metacat docs" include:
-Currently indexed DataONE science metadata (EML versions, FGDC versions, Dryad)
-SystemMetadata
-ORE objects
-Any additional XML schema**

**When adding a new schema to be indexed by Metacat here are some requirements:
-Metacat admin should have complete control over which xpath expressions map to which fields in the current index.
-Configuration should allow for: adding new fields, specifying the type (string, number, boolean, etc) of the field, specifying the name of the field, and mapping one or more xpath expressions to the field.
-If there is currently no appropriate field in the index, then the administrator should be able to easily add a new field to the index to accommodate the new xpath.
-Metacat should not be at the mercy of DataONE to augment the fields or objectFormats that are indexed. It should incorporate enhancements from DataONE if desired, but Metacat should be able to blaze the trail on indexing new content before the CN stack implements similar behavior.

#3 - 03/27/2013 02:31 PM - Redmine Admin

Original Bugzilla ID was 5810

#4 - 04/18/2013 02:53 PM - ben leinfelder

- Assignee changed from Brendan Hahn to Jing Tao

#5 - 04/18/2013 04:54 PM - ben leinfelder

- Tracker changed from Bug to Feature

#6 - 08/01/2013 02:00 PM - ben leinfelder

- Status changed from New to Closed