

Infrastructure - Task #3142

Task # 3635 (New): Phase two Morpho implementation

Need a new local search mechanism

2012-08-17 00:00 - Jing Tao

Status:	New	Start date:	2012-08-16
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	2013.10-Block.2.1	Story Points:	
Milestone:	None		
Product Version:	*		
Description <p>Currently, morpho puts all eml documents into a collection of DOM tree, then uses XPathAPI.selectNodeList method and xpath to search the DOM in the local search. If a user has a big set of local eml documents. It will cause the memory issue.</p> <p>We might use Lucene search engine to replace the current approach.</p> <p>Dataone uses SOLR for search. However, SOLR is a webapps. It involves tomcat, jetty and et al web servers. It is not good for morpho as a desktop application. But Lucene, the search engine used by SOLR, can be embedded into java application. So we can use Lucene.</p> <p>Lucene has two main components - indexing and search.</p> <p>The indexing part we might borrow some code from Dataone (mercury). I talked with Skye. We can't use it directly and have to do some modification.</p> <p>The search part in Lucene is simple. It has a QueryParser class to help user to build a query from a string. Then user can call IndexSearcher.search(query) to get result.</p>			

History

- #1 - 2012-10-11 15:33 - Dave Vieglais
- Target version changed from Sprint-2012.37-Block.5.3 to Sprint-2012.41-Block.6.1
- #2 - 2012-10-24 18:20 - Ben Leinfelder
- Target version changed from Sprint-2012.41-Block.6.1 to Sprint-2012.44-Block.6.2
- #3 - 2012-12-12 16:51 - Chris Jones
- Target version changed from Sprint-2012.44-Block.6.2 to Sprint-2012.50-Block.6.4
- #4 - 2013-03-01 18:33 - Ben Leinfelder
- Target version changed from Sprint-2012.50-Block.6.4 to 2013.10-Block.2.1
- #5 - 2013-03-02 05:15 - Ben Leinfelder
- Parent task changed from #3075 to #3635