Lucene

0.1 Documentation

by Michael Wechner

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1. Generic Search

URL:

/lenya/\$PUB_ID/search-\$AREA/lucene

Indices and Excerpts:

src/webapp/lenya/pubs/\$PUB_ID/work/search/index/\$AREA/index
src/webapp/lenya/pubs/\$PUB_ID/work/search/htdocs_dump/\$AREA

Configuration:

src/webapp/global-sitemap.xmap
src/webapp/lenya/lucene.xmap

2. Customizing/Overwriting Generic Search Interface

XSLT:

src/webapp/lenya/pubs/\$PUB_ID/lenya/xslt/search/search-and-results.xsl

URL:

/lenya/\$PUB_ID/search-\$AREA/lucene

3. Crawling a website

Crawl a website by running

```
ant -f src/webapp/lenya/bin/crawl_and_index.xml crawl
-Dcrawler.xconf=/home/username/src/cocoon-lenya/src/webapp/lenya/pubs/default/config/search/crawler-li
```

whereas the crawler.xconf has the following elements

where the element robots is optional.

In case you don't have access to the server and want to disallow certain URLs from being crawled, then you can also define a "robots.txt" on the crawler side, e.g.

```
# cocoon.apache.org
User-agent: *
Disallow: /there_seems_to_be_a_bug_within_websphinx_Robot_Exclusion.html
#Disallow:
User-agent: lenya
Disallow: /do/not/crawl/this/page.html
```

4. Creating an index from the command line

```
ant -f src/webapp/lenya/bin/crawl_and_index.xml
-Dlucene.xconf=/home/username/src/cocoon-lenya/src/webapp/lenya/pubs/default/config/search/lucene-live
index
```

whereas the lucene.xconf has the following elements

```
<lucene>
 <update-index type="new"/>
 < 1 --
 <update-index type="incremental"/>
 <index-dir src="../../work/search/lucene/index/index"/>
   <htdocs-dump-dir src="../../work/search/lucene/htdocs_dump"/>
   <indexer class="org.apache.lenya.lucene.index.DefaultIndexer"/>
<!--
   <indexer class="org.apache.lenya.lucene.index.ConfigurableIndexer">
     <configuration src="cmfs-luceneDoc.xconf"/>
     <extensions src="xml"/>
   </indexer>
<!--
   <indexer class="org.apache.lenya.lucene.index.ConfigurableIndexer">
     <configuration src="cmfs-luceneDoc.xconf"/>
     <filter class="foo.bar.FileFilter"/>
   </indexer>
</lucene>
```

5. Indexing XML documents

In order to index XML documents one needs to configure the org.apache.lenya.lucene.index.ConfigurableIndexer (see above).

With namespaces:

```
<?xml version="1.0"?>
<luc:document xmlns:luc="http://apache.org/cocoon/lenya/lucene/1.0">
    <luc:field name="currwfstate" type="Text" xpath="/wf:history/wf:version[last()]/@state">
        <namespace prefix="wf">http://apache.org/cocoon/lenya/workflow/1.0</namespace>
    </luc:field>
```

```
</luc:document>
```

Concatenating element values and setting default values in case element value doesn't exist:

6. Extract text from a PDF document

```
ant -f src/webapp/lenya/bin/crawl_and_index.xml
-Dhtdocs.dump.dir=/home/username/src/cocoon-lenya/src/webapp/lenya/pubs/default/work/search/lucene/htd
xpdf
```

Also see the targets pdfbox and pdfadobe.