

The lucene Module

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1 Introduction

The lucene module integrates the Lucene search engine.

2 Configuration

Each publication has a configuration at \$PUB_HOME/config/search/lucene_index.xml which is being defined by

org.apache.cocoon.components.search.components.impl.IndexManagerImpl.

3 Indexing

Indexing is typically triggered by the org.apache.lenya.cms.lucene.IndexUpdaterImpl, which attaches itself as a listener to the repository on startup.

Indexing can also be executed explicitly by calling the lucene.index usecase which is defined by config/cocoon-xconf/usecase-lucene.index.xconf and uses as main entry point org.apache.lenya.cms.lucene.IndexDocument.

In order to make a resource type indexable one needs to add the format luceneIndex to the resource type configuration (e.g. src/modules/xhtml/config/cocoon-xconf/resource-type-xhtml.xconf) One needs to create or reuse a pipeline for this format within the specified sitemap.

4 Indexing Issues

When the system is under high load, it can occur that a document is not indexed after a change because the indexer is busy. In this case, a notification message is sent to a user which can be configured in modules/lucene/sitemap.xmap:

```
<map:transformer name="index2"
  logger="sitemap.transformer.luceneindextransformer2"
  src="org.apache.cocoon.transformation.LuceneIndexTransformer2">
  <notify user="lenya"/>
</map:transformer>
```

5 Searching

To be documented.