SEM5640 Group Project

Solr Technical Report

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# Introduction

## Purpose of this Document

The purpose of this document is to describe our research of Apache Solr (Solr Homepage, 2019) and evaluate its potential for use within the project as an alternative to a bespoke implementation of the system’s required search functionality.

## Scope

TODO

## Objectives

The objectives of this document are:

* Outline Slor and its suitability for the required search functionality
* Evaluate the adjustments required for using Solr
* Evaluate Solr’s interoperability with other system components/applications.
* Compare Solr use to bespoke search implementation

# Search with solr

Solr can be used/queried by a REST client; therefore can communicate with the front-end server application.

The data solr is searching needs to be indexed (added/updated) on the solr server.

This can be achieved by running a full import command on the DataImportHandler (DIH). <http://localhost:8983/solr/dih/dataimport?command=full-import>

The DIH can be configured to use various data sources. To import our data from a database we can use the JdbcDataSource. To access content from an http:// location we can use URLDataSource.

Originally thought we would be importing from message store by going through its REST service but now thinking perhaps easiest to just query the underlying postgres message DB directly. ??

* Solr is a sophisticated tool for searching and better than anything we could implement ourselves.
* If we don’t use Solr we have to write our own search which will take time.
* Clear tutorial and documentation gives confidence that learning time required for solr will be minimal.

REFERENCES

*Solr Homepage*. (2019, 10 26). Retrieved from Apache Lucene: https://lucene.apache.org/solr/

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