Prerequisites

Maven needs to be available on the command line

Java needs to be available

Set up a home directory

Create a home directory for the search engine. This needs to be a folder with a sub directory called 'etc' that contains an engine.properties file and a stopword-list.txt. Samples for both are provided in the repository root. Edit the engine.properties file to suit.

Building the package

From the command line run

Mvn package

After the build change dire into the target folder

Running

Change into the target directory

Cd target

Indexing

Type the following to run indexing

Java -jar irdm-project-0.0.1-SNAPSHOT-jar-with-dependencies.jar "path to home folder" i

Running a single query

Type the following to run a single query after the index has been built

Java -jar irdm-project-0.0.1-SNAPSHOT-jar-with-dependencies.jar "path to home folder" q MODEL_NAME "query terms"

MODEL_NAME can be one of TF_IDF, BM25 or DrichtletLM

Running a batch of queries

Type the following to run a batch of queries

Java -jar irdm-project-0.0.1-SNAPSHOT-jar-with-dependencies.jar "path to home folder" bq MODEL_NAME "query file path" "result path"

MODEL_NAME can be one of TF_IDF, BM25 or DrichtletLM

Query file path needs to be a csv file with two columns. The first a query id and the second a query.