Search Engine OOD I

Class Inverted Index

attributes:

directory - a map of words and the documents that contain them

stop list - a set of stop words documents - a set of documents

services:

index - index()

maps words to the documents that contain them

add document - addDocument(Document document)

adds document to the set of documents

single word query - singleWordQuery(String word)

searches the directory for a single word

multi word query - multiWordQuery(String words)

searches the directory for multiple words

dump - dump()

prints the current inverted index to standard out

Class Stop List

attributes:

stop list - a set of stop words

services:

read file - StopList(String filename)

constructor which reads in stop list

contains word - contains Word (String word)

determines if a given word is a stop word

Class Document

attributes:

name - a string

full text - an object containing the document's original text

words - a set of words from the document

services:

read file - Document(String filename)

constructor which reads in stop list

display - display()

prints the document's name and contents to standard out

Class CLI

attributes:

none

services:

usage - usage()

prints the correct program usage to standard out

main - main(String[] args)

perform operations on queries from standard in