

OOA 1

Classes and Attributes:

-SearchEngine

-none

-Query

-*docList*: list of documents

-SingleWordQuery

-*invertedIndexDocs*: list of documents with word associated with inverted index words

-MultiWordQuery

-*allQueryDocs*: list of documents with all words in the query

-Document

-*name*: name of the document

-*originalText*: full original text of the document

-Word

-*wordLetters*: characters in a word

-Stoplist

-*stopwords*: collection of stopwords

-InvertedIndex

-none

Services:

-SearchEngine

-*buildInvertedIndex*

-Query

-*retrieveDocList*: retrieves a document list

-SingleWordQuery

-*buildSingleWordQuery*: adds documents for query word

-MultiWordQuery

-*buildMultiWordQuery*: adds documents for query words

-Document

-none

-Word

-none

-Stoplist

-*buildStoplist*: adds generic words such as "the" to stopword list

-*isStopword*: checks some word to see if it is a stopword

-InvertedIndex

-*buildIndex*: builds a collection of documents as an index

-*findWord*: looks for and returns a specified word in the index

Inheritance:

- SingleWordQuery is-a Query
- MultiWordQuery is-a Query

Delegation:

- Document has-a Word

Filtering:
