

Search Engine OOA II

Class Inverted Index

attributes:

- | | | |
|-----------|---|---|
| directory | - | map of word and their containing document |
| query | - | word user is searching for |
| stop list | - | collection of stop words |
| documents | - | collection of documents |

services:

- | | | |
|-------------------|---|--|
| add document | - | adds document to inverted index |
| single word query | - | searches documents for single word query |
| multi word query | - | searches documents for multi word query |
| dump | - | prints current inverted index |

Class Stop List

attributes:

- | | | |
|-----------|---|--------------------------|
| stop list | - | collection of stop words |
|-----------|---|--------------------------|

services:

- | | | |
|----------------|---|---------------------------------|
| read file | - | reads in file of stop words |
| is a stop word | - | checks if a word is a stop word |

Class Document

attributes:

- | | | |
|-------|---|---------------------------------|
| name | - | document file name |
| words | - | collection of words in document |

services:

- | | | |
|---------------|---|---|
| read file | - | read in document |
| contains word | - | check if document contains query |
| display | - | display contents of documents and their names |