**OOD for PA #9**

**OOA**

**SearchEngine**

**Attributes:**

* **Hashmap<String, List<docs>> Map;**

**Services:**

* **String searchSingleQuery(String word);**

if Map.getorDefault(word) does not equal default

scan&Output docs in ListOfKey

* **List<docs> searchMultiQuery(String word);**

List<docs> d = new ArrayList();

Parse word by space

For words in the parse, if they do not meet a getOrDefaultCondition, then return null list

For words in the parse, if they are matching to every word in the parse, then add

scan&Output docs in d

* **Void importHash();**
* Map= Setup.returnQuery();

**Setup**

**Attributes:**

**Hashmap<String, List<docs>> map**

**Hashset<String> StopList;**

**Services:**

* **Void buildQuery();**

**For words in collection of docs**

**if(map.getordefault(word in scanner) equals default && word in scanner != StopList.get(Word in scanner)**

map.put(word in scanner, List<docs>)

` map.get(word in scanner).add(doc#)

Else if(**word in scanner != StopList.get(Word in scanner)**

Map.get(word in scanner).add(doc#)}

* **Void buildStoplist();**

Scan(String Words : stoplist)

* **Hashmap<String, List<docs>> returnQuery();**