

Search Engine Project UML

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+ getIndex(): IndexInterface<string, unsigned int, unsigned int>\* + awaitResponse(prompt : string, handler : function<bool(string&)>) : void + awaitResponseReference(prompt : string&, handler : function<bool(string&)>) : void - expandDirectory(path : string&, max : long, handler : function<void(string&)>) : void - loadFile(directory : const string&, file : const string&) : void - loadDocumentCache(path : string&) : void - saveDocumentCache(path : string&) : void · -----~-----<del>V</del>------InputProcessor UserSearch **|**  INSTANCE: static const InputProcessor\* - ComponentOperationType : enum = { AND, OR, NOT, NO OP } - stemCache : mutable unordered map<string, string> - engine : SearchEngine - stopWords : unordered\_set<string> - components : vector<UserSearchComponent> - operations : vector<ComponentOperationType> - results : unordered map<unsigned int, unsigned int> + getInstance() : const InputProcessor& + parse(word : const string&) : string - computed : bool = false: + stripHTML(text : string&) : void .----; + lowerCase(text : string&) : void + buildSearch(input : string&) : bool + isAlphaOnly(text : string&) : bool + getResultSet(): unordered map<unsigned int, unsigned int>& + isStopWord(word : string&) : bool getType(serialized : string&) : ComponentOperationType stemString(word : string&) : void - getTypeName(type : ComponentOperationType) : string **----**processInput(input : istringstream&) : bool - buildPhrase(input : istringstream&, fill : vector<string>&) : void - performOperation(resultGroup: const unordered\_map<unsigned int, unsigned int>&, operation: ComponentOperationType): void - autoCorrect(word : string&) : void L\_\_\_\_\_\_ UserSearchComponent - terms : vector<string> - results : unordered\_map<unsigned int, unsigned int> - computed : bool = false + fillDocumentSet(index: IndexInterface<string, unsigned int, unsigned int>\*, seeking: unordered map<unsigned int, unordered set<unsigned int>>&, termIndex: unsigned int = 0): void + getResultSet(index: IndexInterface<string, unsigned int, unsigned int>\*): unordered map<unsigned int, unsigned int>& 

SearchEngine

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- index : IndexInterface<string, unsigned int, unsigned int>\* = nullptr

- commands : unordered map<string, function<void(list<string>&)>>

- documents : unordered\_map<unsigned int, DocumentInfo>

- shutDown : bool = false: