Object
Class
BaseDocument
Class
Fields
DocumentId : string
Name : string
Url : string
Methods
BaseDocument(string documentId)
BaseDocument(string name, string url)
BaseDocument(string name, string url, string documentId)
Index
Class
Fields
Tokens : Dictionary<string, Token>
Methods
AddWord(string word, DbDocument dbDocument, int position) : void
SaveToDb() : Task
PositionPointer
Class
Fields
_index : int
_positions : List<int>
_EmptyPointer : bool
_isValid : bool
Properties
CurrentPosition { get; } : int
Methods
MoveForward() : void
MoveForwardUntilGreaterThanOrEqualTo(int target) : void
PositionPointer()
PositionPointer(List<int>, positions, bool isValid)
Querier
Class
Fields
_documentsCount : long
_pointerQueue : StablePriorityQueue<TokenPointer>
_resultDocuments : BaseDocument[]
_scoredQueue : SimplePriorityQueue<ScoreDocumentNode>
_enterprisePointers : List<TokenPointer>
Methods
ExtractUnstem() : List<TokenPointer>
FetchDocumentDetails() : Task
GeneratePointer(int, int, targetIndex, string[] words) : void
GetPlainQueries(string query) : string[]
LinearMap() : void
SaveQueryToDb(string query) : void
ScoreConsecutiveWords(long, targetDocumentId) : double
ScorePointers(List<TokenPointer>, pointer) : void
Search(string query) : Task<BaseDocument[]>
Stemmer
Class
Fields
_endIndex : int
_startIndex : int
_wordArray : char[]
Methods
EndsWith(string s) : bool
IsConsonant(int index) : bool
IsCvc(int index) : bool
IsDoubleConsonant(int index) : bool
MeasureConsonantSequence() : int
ReplaceEnd(string s) : void
SetEnd(string s) : void
Stem(ref string word) : string
Step1() : void
Step2() : void
Step3() : void
Step4() : void
Step5() : void
Step6() : void
VowelIn(int) : bool
Token
Class
Fields
_currentDocumentId : string
_word : string
_Documents : List<TokenItem>
_frequency : int
Methods
AddItem(DbDocument dbDocument, int position) : void
GetBoolPositions() : BoolArray
SaveToDb() : Task
Token(string word)
Token(string word, BoolArray[] initialDocuments, int frequency)
TokenItem
Class
Fields
DocumentId : string
DocumentPosition : long
Positions : List<int>
Methods
AddPosition(int position) : void
GetBoolPositions() : BoolArray
TokenItem(int position, string documentId, long documentPosition)
TokenItem(List<int> positions, string documentId, long documentPosition)
Utils
Static Class
Fields
StopWords : string
StopWordsHash : HashSet<string>
Methods
CleanAndSearchWords(string text) : string[]
IsStopWord(string word) : bool
NormalizeWhiteSpaceAndRemovePunctuation(string text) : string
SplitAndRemoveStopWords(string text) : string[]
StemWords(string[] validWords) : void
SearchIndex
Class
Index
Methods
SearchIndex(string[] words)
DbDocument
Class
BaseDocument
Fields
Position : long
SaveToDbSemaphore : Semaphore
TokenIndexed : Queue<BaseDocument>
Methods
DbDocument(long position, string documentId, string url, string name)
IndexDocument(string name, string url) : void
SaveToDb() : void