SearchifyEngine Documentation

Author: The A Team

Namespace SearchifyEngine

Classes

Config

Application Constants

Utils

Static class housing a number of utility methods

Class Config

Application Constants

Inheritance

System.Object
Config

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: SearchifyEngine

Assembly: SearchifyEngine.dll

Syntax

```
public static class Config
```

Fields

Codec

Codec for integer compression

Declaration

```
public static readonly Codec Codec
```

Field Value

TYPE	DESCRIPTION
Codec	

DatabaseHost

Dynamo database host

Declaration

```
public static readonly string DatabaseHost
```

Field Value

TYPE	DESCRIPTION
System.String	

DatabasePort

Dynamo database port

Declaration

```
public static readonly int DatabasePort
```

Field Value

TYPE	DESCRIPTION
System.Int32	

Class Utils

Static class housing a number of utility methods

Inheritance

System.Object
Utils

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: SearchifyEngine

Assembly: SearchifyEngine.dll

Syntax

```
public static class Utils
```

Methods

CleanText(String)

Converts multiple spaces to one an strips punctuation from text, converts text to lowercase

Declaration

```
public static string CleanText(string text)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	text	any string value

Returns

TYPE	DESCRIPTION
System.String	cleaned text

ToDeltaList(List<UInt32>)

Creates a list where elements are replaced by the value of the delta between each element and the previous element

Declaration

```
public static List<uint> ToDeltaList(List<uint> list)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<System.UInt32>	list	list of nonnegative integers

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<System.UInt32>	list of delta ulong values

Namespace SearchifyEngine.Database

Classes

DbClient

Client library for interactions with DynamoDB

Class DbClient

Client library for interactions with DynamoDB

Inheritance

System.Object
DbClient

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: SearchifyEngine.Database

Assembly: SearchifyEngine.dll

Syntax

```
public static class DbClient
```

Fields

Store

InvertedIndexDynamoDbStore instance associated with the client

Declaration

```
public static InvertedIndexDynamoDbStore Store
```

Field Value

TYPE	DESCRIPTION
InvertedIndexDynamoDbStore	

Methods

CreateClient(Boolean)

Connects to DynamoDB, and instantiates Store value

Declaration

```
public static bool CreateClient(bool useLocal)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	useLocal	set to true if you are using dynamodblocal

Returns

TYPE	DESCRIPTION
System.Boolean	status of client creation, true for success, false for failure

CreateTables()

Creates necessary database tables if they do not already exist

Declaration

```
public static async Task CreateTables()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task	

GetTableDescription(String)

Provides TableDescription for table specified. If table doesn't exist, null is returned.

Declaration

```
public static async Task<TableDescription> GetTableDescription(string tableName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tableName	table name

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<TableDescription>	table description

Namespace SearchifyEngine.Indexer

Classes

ExtractDoc

Indexer Utility class for document download

Indexer

Indexer class builds and maintains internal search index

IndexTerm

Index term representation, stores file delta, frequency and positions of word

IndexTermJsonConverter

Custom converter class to aid the serialization of IndexTerm to JSON string json = JsonConvert.SerializeObject(ReverseIndex, Formatting.None, new IndexTermJsonConverter());

Class ExtractDoc

Indexer Utility class for document download

Inheritance

System.Object
ExtractDoc

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: SearchifyEngine.Indexer

Assembly: SearchifyEngine.dll

Syntax

```
public class ExtractDoc
```

Methods

Delete(String)

Deletes file at specified path if the file exists

Declaration

```
public static void Delete(string path)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	path	absolute file path

Extract(String)

This function downloads a document from a valid url

Declaration

```
public static string Extract(string url)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	url	valid document url

Returns

TYPE	DESCRIPTION
System.String	filepath to downloaded document

Class Indexer

Indexer class builds and maintains internal search index

Inheritance

System.Object
Indexer

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: SearchifyEngine.Indexer

Assembly: SearchifyEngine.dll

Syntax

```
public class Indexer
```

Constructors

Indexer(IStore)

Declaration

```
public Indexer(IStore store)
```

Parameters

TYPE	NAME	DESCRIPTION
IStore	store	

Fields

LastId

Last File ID indexed

Declaration

```
public uint LastId
```

Field Value

TYPE	DESCRIPTION
System.UInt32	

ReverseIndex

Declaration

```
public Dictionary<string, IndexTerm[]> ReverseIndex
```

Field Value

TYPE	DESCRIPTION
System.Collections.Generic.Dictionary<System.String, IndexTerm[]>	

Methods

GetIndexTermArray(String)

Returns index list associated with `word`

Declaration

```
public async Task<IndexTerm[]> GetIndexTermArray(string word)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	word	any string

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<IndexTerm[]>	Index list of word

GetLoadedTermList(String)

Declaration

```
public IndexTerm[] GetLoadedTermList(string term)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	term	

Returns

TYPE	DESCRIPTION
IndexTerm[]	

Index(String, UInt32)

Powerhouse function for indexing documents

Declaration

```
public async Task Index(string fileUrl, uint fileId)
```

Parameters

TYPE	NAME	DESCRIPTION

TYPE	NAME	DESCRIPTION
System.String	fileUrl	a path or link to an indexable document
System.UInt32	fileId	unique integer id for document

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task	

LoadInvertedIndex(String[])

Declaration

```
public async Task LoadInvertedIndex(string[] queryTerms)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String[]	queryTerms	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task	

Class IndexTerm

Index term representation, stores file delta, frequency and positions of word

Inheritance

System.Object
IndexTerm

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: SearchifyEngine.Indexer

Assembly: SearchifyEngine.dll

Syntax

```
public class IndexTerm
```

Constructors

IndexTerm(UInt32)

Instantiates a new IndexTerm object

Declaration

```
public IndexTerm(uint fileDelta)
```

Parameters

TYPE	NAME	DESCRIPTION
System.UInt32	fileDelta	delta value

Fields

FileDelta

File ID delta value

Declaration

```
public readonly uint FileDelta
```

Field Value

TYPE	DESCRIPTION
System.UInt32	

Properties

Frequency

Number of occurrences of term in document

Number of occurrences of term in document

Declaration

```
public uint Frequency { get; }
```

Property Value

TYPE	DESCRIPTION
System.UInt32	

Positions

Array of positions where term can be found in the document

Declaration

```
public uint[] Positions { get; }
```

Property Value

TYPE	DESCRIPTION
System.UInt32[]	

Methods

AddPositions(UInt32[])

Sets positions for term

Declaration

```
public void AddPositions(uint[] positions)
```

Parameters

TYPE	NAME	DESCRIPTION
System.UInt32[]	positions	array of positions in delta uint array

Class IndexTermJsonConverter

Custom converter class to aid the serialization of IndexTerm to JSON string json = JsonConvert.SerializeObject(ReverseIndex, Formatting.None, new IndexTermJsonConverter());

Inheritance

System.Object

IndexTermJsonConverter

Namespace: SearchifyEngine.Indexer

Assembly: SearchifyEngine.dll

Syntax

```
public class IndexTermJsonConverter : JsonConverter<IndexTerm>
```

Methods

ReadJson(JsonReader, Type, IndexTerm, Boolean, JsonSerializer)

Declaration

```
public override IndexTerm ReadJson(JsonReader reader, Type objectType, IndexTerm existingValue, bool hasExistingValue, JsonSerializer serializer)
```

Parameters

TYPE	NAME	DESCRIPTION
JsonReader	reader	
System.Type	objectType	
IndexTerm	existingValue	
System.Boolean	hasExistingValue	
JsonSerializer	serializer	

Returns

TYPE	DESCRIPTION
IndexTerm	

WriteJson(JsonWriter, IndexTerm, JsonSerializer)

Declaration

```
public override void WriteJson(JsonWriter writer, IndexTerm term, JsonSerializer serializer)
```

Parameters

TYPE	NAME	DESCRIPTION
JsonWriter	writer	
IndexTerm	term	

TYPE	NAME	DESCRIPTION
JsonSerializer	serializer	

Namespace SearchifyEngine.Ranker

Classes

Ranker

Maintains and calculates document scores for a query

Class Ranker

Maintains and calculates document scores for a query

Inheritance

System.Object
Ranker

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: SearchifyEngine.Ranker

Assembly: SearchifyEngine.dll

Syntax

```
public class Ranker
```

Constructors

Ranker(Indexer)

Instantiates a ranker object

Declaration

```
public Ranker(Indexer indexer)
```

Parameters

TYPE	NAME	DESCRIPTION
Indexer	indexer	an instance of Indexer

Methods

RankedResultsList()

Returns an ordered array of file ids based on scores

Declaration

```
public uint[] RankedResultsList()
```

Returns

TYPE	DESCRIPTION
System.UInt32[]	list of file ids

Score(UInt32, List<Pointer>)

Computes and stores file score

Declaration

```
public void Score(uint fieldId, List<Pointer> pointerList)
```

Parameters

TYPE	NAME	DESCRIPTION
System.UInt32	fieldId	id of file
System.Collections.Generic.List<Pointer>	pointerList	pointer list of query terms that can be found in the file

Namespace SearchifyEngine.Searcher

Classes

Pointer

Search Pointer object aids the k-way linear merge algorithm by storing the pointer to each index term being iterated reverse index

Searcher

Searcher class operates on an indexer

Class Pointer

Search Pointer object aids the k-way linear merge algorithm by storing the pointer to each index term being iterated reverse index

Inheritance

System.Object
Pointer

Implements

System.IComparable
System.IComparable<Pointer>

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: SearchifyEngine.Searcher

Assembly: SearchifyEngine.dll

Syntax

```
public class Pointer : IComparable, IComparable<Pointer>
```

Constructors

Pointer(String, UInt32, UInt32)

Instantiate a Pointer object

Declaration

```
public Pointer(string term, uint p, uint fileId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	term	word
System.UInt32	p	current index of IndexTermList iteration
System.UInt32	fileId	file id

Fields

FileId

FileId of Index Term

Declaration

```
public readonly uint FileId
```

Field Value

TYPE	DESCRIPTION
System.UInt32	

P

Index of current iteration of the Index Term list

Declaration

```
public readonly uint P
```

Field Value

TYPE	DESCRIPTION
System.UInt32	

Term

The key of the reverse index

Declaration

```
public readonly string Term
```

Field Value

TYPE	DESCRIPTION
System.String	

Methods

CompareTo(Pointer)

IComparable Pointer implementation

Declaration

```
public int CompareTo(Pointer other)
```

Parameters

TYPE	NAME	DESCRIPTION
Pointer	other	Pointer object for comparison

Returns

TYPE	DESCRIPTION
System.Int32	1 when this.FileId gt other.FileId -1 when this.FileId lt other.FileId 0 otherwise

Exceptions

TYPE	CONDITION
System.ArgumentException	Raised when comparing with null

CompareTo(Object)

IComparable implementation

Declaration

```
public int CompareTo(object other)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Object	other	object for comparison

Returns

TYPE	DESCRIPTION
System.Int32	1 when this.FileId gt other.FileId -1 when this.FileId lt other.FileId 0 otherwise

Exceptions

TYPE	CONDITION
System.ArgumentException	Raised when comparing with null

Implements

System.IComparable
System.IComparable<T>

Class Searcher

Searcher class operates on an indexer

Inheritance

System.Object
Searcher

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: SearchifyEngine.Searcher

Assembly: SearchifyEngine.dll

Syntax

```
public class Searcher
```

Constructors

Searcher(Indexer)

Instantiates a Searcher object

Declaration

```
public Searcher(Indexer indexer)
```

Parameters

TYPE	NAME	DESCRIPTION
Indexer	indexer	instance of SearchifyEngine.Indexer

Methods

ExecuteQuery(String)

Returns a ranked array of file ids associated with a query

Declaration

```
public async Task<uint[]> ExecuteQuery(string query)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	query	any nonempty string value

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.UInt32[]>	Ranked array of file ids

Namespace SearchifyEngine.Store

Classes

InvertedIndexDynamoDbStore

Inverted Index Store for DynamoDB. Provides methods for CRU operations on the Inverted Index in DynamoDB

InvertedIndexMemoryStore

Interfaces

IStore

Defines methods that must be possessed by an Inverted Index Store

Class InvertedIndexDynamoDbStore

Inverted Index Store for DynamoDB. Provides methods for CRU operations on the Inverted Index in DynamoDB

Inheritance

System.Object
InvertedIndexDynamoDbStore

Implements

IStore

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: SearchifyEngine.Store

Assembly: SearchifyEngine.dll

Syntax

```
public class InvertedIndexDynamoDbStore : IStore
```

Constructors

InvertedIndexDynamoDbStore(AmazonDynamoDBClient)

Instantiates a new InvertedIndexDynamoDbStore object

Declaration

```
public InvertedIndexDynamoDbStore(AmazonDynamoDBClient client)
```

Parameters

TYPE	NAME	DESCRIPTION
AmazonDynamoDBClient	client	dynamodb client

Methods

AppendIndexTerm(String, IndexTerm)

Appends to list of index terms for a particular term. If the term has not been indexed yet, a new list is instantiated and the term is then appended

Declaration

```
public async Task<HttpStatusCode> AppendIndexTerm(string term, IndexTerm indexTerm)
```

Parameters

TYPE	NAME	DESCRIPTION

TYPE	NAME	DESCRIPTION
System.String	term	term
IndexTerm	indexTerm	IndexTerm object

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Net.HttpStatusCode>	status code of operation

CheckTermIndexed(String)

Checks if a term has been indexed

Declaration

```
public async Task<bool> CheckTermIndexed(string term)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	term	term

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Boolean>	true if term has been indexed, else false

GetIndexTermList(String)

Returns index term list for a particular term. An empty list is returned if the term has not been indexed

Declaration

```
public async Task<List<IndexTerm>> GetIndexTermList(string term)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	term	term

Returns

TYPE	DESCRIPTION

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Collections.Generic.List<IndexTerm>>	list of IndexTerm objects

GetLastId()

Returns the id of last file indexed, zero if no file was indexed.

Declaration

```
public async Task<uint> GetLastId()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.UInt32>	id of last file indexed

SetLastId(UInt32)

Sets the value of the last document indexed

Declaration

```
public async Task<HttpStatusCode> SetLastId(uint lastId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.UInt32	lastId	document id

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Net.HttpStatusCode>	status code for operation

Implements

IStore

Class InvertedIndexMemoryStore

Inheritance

System.Object
InvertedIndexMemoryStore

Implements

IStore

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: SearchifyEngine.Store

Assembly: SearchifyEngine.dll

Syntax

```
public class InvertedIndexMemoryStore : IStore
```

Methods

AppendIndexTerm(String, IndexTerm)

Appends to list of index terms for a particular term. If the term has not been indexed yet, a new list is instantiated and the term is then appended

Declaration

```
public async Task<HttpStatusCode> AppendIndexTerm(string term, IndexTerm indexTerm)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	term	term
IndexTerm	indexTerm	IndexTerm object

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Net.HttpStatusCode>	status code of operation

CheckTermIndexed(String)

Checks if a term has been indexed

Declaration

```
public async Task<bool> CheckTermIndexed(string term)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	term	term

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Boolean>	true if term has been indexed, else false

GetIndexTermList(String)

Returns index term list for a particular term. An empty list is returned if the term has not been indexed

Declaration

```
public async Task<List<IndexTerm>> GetIndexTermList(string term)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	term	term

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Collections.Generic.List<IndexTerm>>	list of IndexTerm objects

GetLastId()

Returns the id of last file indexed, zero if no file was indexed.

Declaration

```
public async Task<uint> GetLastId()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.UInt32>	id of last file indexed

SetLastId(UInt32)

Sets the value of the last document indexed

Declaration

```
public async Task<HttpStatusCode> SetLastId(uint lastId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.UInt32	lastId	document id

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Net.HttpStatusCode>	status code for operation

Implements

IStore

Interface IStore

Defines methods that must be possessed by an Inverted Index Store

Namespace: SearchifyEngine.Store

Assembly: SearchifyEngine.dll

Syntax

```
public interface IStore
```

Methods

AppendIndexTerm(String, IndexTerm)

Appends to list of index terms for a particular term. If the term has not been indexed yet, a new list is instantiated and the term is then appended

Declaration

```
Task<HttpStatusCode> AppendIndexTerm(string term, IndexTerm indexTerm)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	term	term
IndexTerm	indexTerm	IndexTerm object

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Net.HttpStatusCode>	status code of operation

CheckTermIndexed(String)

Checks if a term has been indexed

Declaration

```
Task<bool> CheckTermIndexed(string term)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	term	term

Returns

TYPE	DESCRIPTION

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Boolean>	true if term has been indexed, else false

GetIndexTermList(String)

Returns index term list for a particular term. An empty list is returned if the term has not been indexed

Declaration

```
Task<List<IndexTerm>> GetIndexTermList(string term)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	term	term

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Collections.Generic.List<IndexTerm>>	list of IndexTerm objects

GetLastId()

Returns the id of last file indexed, zero if no file was indexed.

Declaration

```
Task<uint> GetLastId()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.UInt32>	id of last file indexed

SetLastId(UInt32)

Sets the value of the last document indexed

Declaration

```
Task<HttpStatusCode> SetLastId(uint lastId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.UInt32	lastId	document id

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Net.HttpStatusCode>	status code for operation

Namespace SearchifyEngine.Tokenizer

Classes

Stemmer

Porter Stemmer Class

Stopwords

Stopwords class

Tokenizer

Static class that houses tokenization logic

Class Stemmer

Porter Stemmer Class

Inheritance

System.Object
Stemmer

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: SearchifyEngine.Tokenizer

Assembly: SearchifyEngine.dll

Syntax

```
public class Stemmer
```

Methods

StemWord(String)

Stem the passed in word.

Declaration

```
public string StemWord(string word)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	word	Word to evaluate

Returns

TYPE	DESCRIPTION
System.String	

Class Stopwords

Stopwords class

Inheritance

System.Object
Stopwords

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: SearchifyEngine.Tokenizer

Assembly: SearchifyEngine.dll

Syntax

```
public static class Stopwords
```

Methods

LoadStopWords()

returns set of English stopwords

Declaration

```
public static HashSet<string> LoadStopWords()
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.HashSet<System.String>	a set of stopwords

Class Tokenizer

Static class that houses tokenization logic

Inheritance

System.Object
Tokenizer

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: SearchifyEngine.Tokenizer

Assembly: SearchifyEngine.dll

Syntax

```
public static class Tokenizer
```

Methods

Tokenize(String)

Tokenizes text

Declaration

```
public static string[] Tokenize(string text)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	text	any string value

Returns

TYPE	DESCRIPTION
System.String[]	array of stemmed words with stopwords filtered out