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Searcher

Searchify API Documentation

**Author: The A Team** 

# Namespace Searchify

Classes

Config

**Application Constants** 

Program

Startup

# 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: Searchify
Assembly: Searchify.dll

Syntax

public static class Config

#### Fields

#### Codec

Declaration

public static readonly Codec Codec

#### Field Value

ТҮРЕ	DESCRIPTION
Inverted Tomato. Compression. Integers. Codec	

#### DatabaseHost

Declaration

public static readonly string DatabaseHost

#### Field Value

ТҮРЕ	DESCRIPTION
System.String	

# DatabasePort

Declaration

public static readonly int DatabasePort

# Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

# Class Program

Inheritance

System.Object

Program

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. Reference Equals (System. Object, System. Object)

System.Object.ToString()

Namespace: Searchify
Assembly: Searchify.dll

Syntax

public class Program

#### Methods

# CreateHostBuilder(String[])

Declaration

public static IHostBuilder CreateHostBuilder(string[] args)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String[]	args	

#### Returns

ТҮРЕ	DESCRIPTION
Microsoft. Extensions. Hosting. I Host Builder	

# Main(String[])

Declaration

public static void Main(string[] args)

ТУРЕ	NAME	DESCRIPTION
System.String[]	args	

# **Class Startup**

Inheritance

System.Object

Startup

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: Searchify
Assembly: Searchify.dll

Syntax

public class Startup

#### Constructors

## Startup(IConfiguration)

Declaration

public Startup(IConfiguration configuration)

#### **Parameters**

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Extensions. Configuration. I Configuration	configuration	

## **Properties**

# Configuration

Declaration

public IConfiguration Configuration { get; }

# Property Value

ТҮРЕ	DESCRIPTION
Microsoft. Extensions. Configuration. I Configuration	

# Methods

Configure(IApplicationBuilder, IWebHostEnvironment, SearchifyContext)

Declaration

public void Configure(IApplicationBuilder app, IWebHostEnvironment env, SearchifyContext dataContext)

ТҮРЕ	NAME	DESCRIPTION	
Microsoft. AspNetCore. Builder. I Application Builder	арр		
Microsoft. AspNetCore. Hosting. I WebHost Environment	env		
SearchifyContext	dataContext		

# Configure Services (IService Collection)

Declaration

public void ConfigureServices(IServiceCollection services)

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Extensions. Dependency Injection. I Service Collection	services	

# Namespace Searchify.Controllers

Classes

 ${\bf Document Controller}$ 

Document controller class

SearchController

Search controller class

# Class DocumentController

Document controller class

Inheritance

System.Object

Microsoft. AspNetCore. Mvc. Controller Base

DocumentController

Inherited Members

Microsoft.AspNetCore.Mvc.ControllerBase.Accepted()

Microsoft.AspNetCore.Mvc.ControllerBase.Accepted(System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.Accepted(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.Accepted(System.String, System.Object)

Microsoft. AspNetCore. Mvc. Controller Base. Accepted (System. Uri)

Microsoft.AspNetCore.Mvc.ControllerBase.Accepted(System.Uri, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtAction(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtAction(System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtAction(System.String, System.Object, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtAction(System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtAction(System.String, System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtAction(System.String, System.String, System.Object, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtRoute(System.Object)

Microsoft. AspNetCore. Mvc. Controller Base. Accepted AtRoute (System. Object, System. Object)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtRoute(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtRoute(System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtRoute(System.String, System.Object, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.BadRequest()

Microsoft.AspNetCore.Mvc.ControllerBase.BadRequest(Microsoft.AspNetCore.Mvc.ModelBinding.ModelStateDictionary)

Microsoft. AspNetCore. Mvc. Controller Base. BadRequest (System. Object)

Microsoft. AspNetCore. Mvc. Controller Base. Challenge ()

Microsoft. AspNetCore. Mvc. Controller Base. Challenge (Microsoft. AspNetCore. Authentication. Authentication Properties)

 $\label{lem:microsoft.} Microsoft. AspNetCore. Mvc. Controller Base. Challenge (Microsoft. AspNetCore. Authentication. Authentication Properties, System. String [])$ 

Microsoft.AspNetCore.Mvc.ControllerBase.Challenge(System.String[])

Microsoft.AspNetCore.Mvc.ControllerBase.Conflict()

Microsoft. AspNetCore. Mvc. Controller Base. Conflict (Microsoft. AspNetCore. Mvc. Model Binding. Model State Dictionary)

Microsoft.AspNetCore.Mvc.ControllerBase.Conflict(System.Object)

Microsoft. AspNetCore. Mvc. Controller Base. Content (System. String)

Microsoft.AspNetCore.Mvc.ControllerBase.Content(System.String, Microsoft.Net.Http.Headers.MediaTypeHeaderValue)

Microsoft. AspNetCore. Mvc. Controller Base. Content (System. String)

Microsoft.AspNetCore.Mvc.ControllerBase.Content(System.String, System.String, System.Text.Encoding)

Microsoft. Asp Net Core. Mvc. Controller Base. Created (System. String, System. Object)

Microsoft.AspNetCore.Mvc.ControllerBase.Created(System.Uri, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.CreatedAtAction(System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.CreatedAtAction(System.String, System.Object, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.CreatedAtAction(System.String, System.Object, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.CreatedAtRoute(System.Object, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.CreatedAtRoute(System.String, System.Object)

Microsoft. Asp Net Core. Mvc. Controller Base. Created At Route (System. String, System. Object, System. Object)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.Byte[], System.String)

Microsoft. AspNetCore. Mvc. Controller Base. File (System. Byte [], System. String, System. Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.Byte[], System.String, System.Nullable<System.DateTimeOffset>,

Microsoft.Net.Http.Headers.EntityTagHeaderValue)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.Byte[], System.String, System.Nullable < System.DateTimeOffset >,

Microsoft.Net.Http.Headers.EntityTagHeaderValue, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.Byte[], System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.Byte[], System.String, System.String, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.Byte[], System.String, System.String,

System.Nullable < System.DateTimeOffset > , Microsoft.Net.Http.Headers.EntityTagHeaderValue)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.Byte[], System.String, System.String,

System.Nullable < System.DateTimeOffset >, Microsoft.Net.Http.Headers.EntityTagHeaderValue, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String, System.Nullable < System.DateTimeOffset >,

Microsoft.Net.Http.Headers.EntityTagHeaderValue)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String, System.Nullable < System.DateTimeOffset >,

Microsoft. Net. Http. Headers. Entity Tag Header Value, System. Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String, System.String, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String, System.String,

System.Nullable < System.DateTimeOffset >, Microsoft.Net.Http.Headers.EntityTagHeaderValue)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String, System.String,

System.Nullable < System.DateTimeOffset >, Microsoft.Net.Http.Headers.EntityTaqHeaderValue, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.String, System.String, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.String, System.String, System.Nullable < System.DateTimeOffset >,

Microsoft.Net.Http.Headers.EntityTagHeaderValue)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.String, System.String, System.Nullable < System.DateTimeOffset >,

Microsoft.Net.Http.Headers.EntityTagHeaderValue, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.String, System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.String, System.String, System.String, System.Boolean)

Microsoft. AspNetCore. Mvc. Controller Base. File (System. String, System. S

System.Nullable < System.DateTimeOffset > , Microsoft.Net.Http.Headers.EntityTagHeaderValue)

Microsoft. Asp Net Core. Mvc. Controller Base. File (System. String, System. String, System.

System.Nullable < System.DateTimeOffset >, Microsoft.Net.Http.Headers.EntityTagHeaderValue, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.Forbid()

Microsoft. AspNetCore. Mvc. Controller Base. Forbid (Microsoft. AspNetCore. Authentication. Authentication Properties)

Microsoft.AspNetCore.Mvc.ControllerBase.Forbid(Microsoft.AspNetCore.Authentication.AuthenticationProperties, System.String[])

Microsoft.AspNetCore.Mvc.ControllerBase.Forbid(System.String[])

Microsoft.AspNetCore.Mvc.ControllerBase.LocalRedirect(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.LocalRedirectPermanent(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.LocalRedirectPermanentPreserveMethod(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.LocalRedirectPreserveMethod(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.NoContent()

Microsoft. AspNetCore. Mvc. Controller Base. NotFound ()

Microsoft.AspNetCore.Mvc.ControllerBase.NotFound(System.Object)

Microsoft. AspNetCore. Mvc. Controller Base. Ok()

Microsoft.AspNetCore.Mvc.ControllerBase.Ok(System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String, System.Nullable < System.DateTimeOffset >,

Microsoft. Net. Http. Headers. Entity Tag Header Value)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String, System.Nullable < System.DateTimeOffset >,

Microsoft.Net.Http.Headers.EntityTagHeaderValue, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String, System.String, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String, System.String

System.Nullable < System.DateTimeOffset >, Microsoft.Net.Http.Headers.EntityTagHeaderValue)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String, System.String

System.Nullable<System.DateTimeOffset>, Microsoft.Net.Http.Headers.EntityTagHeaderValue, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.Problem(System.String, System.String, System.Nullable < System.Int32 > , System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.Redirect(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectPermanent(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectPermanentPreserveMethod(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectPreserveMethod(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToAction()

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToAction(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToAction(System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToAction(System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToAction(System.String, System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToAction(System.String, System.String, System.Object, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToAction(System.String, System.String, System.String)

Microsoft. AspNetCore. Mvc. Controller Base. Redirect To Action Permanent (System. String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToActionPermanent(System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToActionPermanent(System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToActionPermanent(System.String, System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToActionPermanent(System.String, System.String, System.Object, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToActionPermanent(System.String, System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToActionPermanentPreserveMethod(System.String, System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToActionPreserveMethod(System.String, System.String, System.Object, System.String)

Microsoft. AspNetCore. Mvc. Controller Base. Redirect ToPage (System. String)

Microsoft. Asp Net Core. Mvc. Controller Base. Redirect ToPage (System. String, System. Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPage(System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPage(System.String, System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPage(System.String, System.String, System.Object, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPage(System.String, System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPagePermanent(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPagePermanent(System.String, System.Object)

Microsoft. AspNetCore. Mvc. Controller Base. Redirect To Page Permanent (System. String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPagePermanent(System.String, System.String, System.Object, System.String)

Microsoft. Asp Net Core. Mvc. Controller Base. Redirect To Page Permanent (System. String, System. String)

Microsoft. AspNetCore. Mvc. Controller Base. Redirect ToPage Permanent Preserve Method (System. String, System. String, Syst

System.Object, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPagePreserveMethod(System.String, System.String, System.Object, System.String)

Microsoft. AspNetCore. Mvc. Controller Base. Redirect To Route (System. Object)

Microsoft. AspNetCore. Mvc. Controller Base. RedirectToRoute (System. String)

Microsoft. AspNetCore. Mvc. Controller Base. Redirect To Route (System. String, System. Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToRoute(System.String, System.Object, System.String)

Microsoft. AspNetCore. Mvc. Controller Base. RedirectToRoute (System. String)

Microsoft. AspNetCore. Mvc. Controller Base. Redirect To Route Permanent (System. Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToRoutePermanent(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToRoutePermanent(System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToRoutePermanent(System.String, System.Object, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToRoutePermanent(System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToRoutePermanentPreserveMethod(System.String, System.Object, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToRoutePreserveMethod(System.String, System.Object, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.SignIn(System.Security.Claims.ClaimsPrincipal,

Microsoft.AspNetCore.Authentication.AuthenticationProperties, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.SignIn(System.Security.Claims.ClaimsPrincipal, System.String)

Microsoft. AspNetCore. Mvc. Controller Base. SignOut (Microsoft. AspNetCore. Authentication. Authentication Properties, and the controller Base. SignOut (Microsoft. AspNetCore. Authentication.) And the controller Base. SignOut (Microsoft. AspNetCore. Authentication.) And the controller Base. SignOut (Microsoft. AspNetCore.) And the controller Base. SignOut (Mi

System.String[])

 $Microsoft. AspNetCore. Mvc. Controller Base. SignOut (System. String \cite{Microsoft.}) and the property of the property of$ 

Microsoft.AspNetCore.Mvc.ControllerBase.StatusCode(System.Int32)

Microsoft.AspNetCore.Mvc.ControllerBase.StatusCode(System.Int32, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync(System.Object, System.Type, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync(System.Object, System.Type, System.String,

Microsoft.AspNetCore.Mvc.ModelBinding.IValueProvider, System.Func<Microsoft.AspNetCore.Mvc.ModelBinding.ModelMetadata, System.Boolean>)

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync<TModel>(TModel)

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync<TModel>(TModel, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync<TModel>(TModel, System.String,

Microsoft.AspNetCore.Mvc.ModelBinding.IValueProvider)

Microsoft. AspNetCore. Mvc. Controller Base. Try Update Model Async < TModel > (TModel, System. String, Asynchemical Controller Base) and the support of t

Microsoft.AspNetCore.Mvc.ModelBinding.IValueProvider, System.Func < Microsoft.AspNetCore.Mvc.ModelBinding.ModelMetadata, System.Boolean >)

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync<TModel>(TModel, System.String,

Microsoft.AspNetCore.Mvc.ModelBinding.IValueProvider, System.Linq.Expressions.Expression < System.Func < TModel,

System.Object>>[])

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync<TModel>(TModel, System.String,

System.Func<Microsoft.AspNetCore.Mvc.ModelBinding.ModelMetadata, System.Boolean>)

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync<TModel>(TModel, System.String,

System.Ling.Expressions.Expression<System.Func<TModel, System.Object>>[])

Microsoft.AspNetCore.Mvc.ControllerBase.TryValidateModel(System.Object)

Microsoft. AspNetCore. Mvc. Controller Base. Try Validate Model (System. Object, System. String)

Microsoft.AspNetCore.Mvc.ControllerBase.Unauthorized()

Microsoft. AspNetCore. Mvc. Controller Base. Unauthorized (System. Object)

Microsoft.AspNetCore.Mvc.ControllerBase.UnprocessableEntity()

Microsoft. AspNetCore. Mvc. Controller Base. Unprocessable Entity (Microsoft. AspNetCore. Mvc. Model Binding. Model State Dictionary)

Microsoft. AspNetCore. Mvc. Controller Base. Unprocessable Entity (System. Object)

Microsoft.AspNetCore.Mvc.ControllerBase.ValidationProblem()

Microsoft. AspNetCore. Mvc. Controller Base. Validation Problem (Microsoft. AspNetCore. Mvc. Model Binding. Model State Dictionary)

Microsoft. AspNetCore. Mvc. Controller Base. Validation Problem (Microsoft. AspNetCore. Mvc. Validation Problem Details)

Microsoft. AspNetCore. Mvc. Controller Base. Validation Problem (System. String, System. String, System. Nullable < System. Int 32 > 1, 2000. Application of the problem of the problem

System.String, System.String, Microsoft.AspNetCore.Mvc.ModelBinding.ModelStateDictionary)

Microsoft. AspNetCore. Mvc. Controller Base. Controller Context

Microsoft.AspNetCore.Mvc.ControllerBase.HttpContext

Microsoft.AspNetCore.Mvc.ControllerBase.MetadataProvider

Microsoft. AspNetCore. Mvc. Controller Base. Model Binder Factory

Microsoft. AspNetCore. Mvc. Controller Base. Model State

Microsoft.AspNetCore.Mvc.ControllerBase.ObjectValidator

Microsoft. AspNetCore. Mvc. Controller Base. Problem Details Factory

Microsoft.AspNetCore.Mvc.ControllerBase.Request

Microsoft. AspNetCore. Mvc. Controller Base. Response

Microsoft. AspNetCore. Mvc. Controller Base. Route Data

Microsoft. AspNetCore. Mvc. Controller Base. Url

Microsoft. AspNetCore. Mvc. Controller Base. User

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: Searchify.Controllers

Assembly: Searchify.dll

Syntax

```
[ApiController]
[Route("/api/docs")]
public class DocumentController : ControllerBase
```

#### Constructors

# DocumentController(SearchifyContext, ILogger<DocumentController>)

Declaration

```
public DocumentController(SearchifyContext context, ILogger<DocumentController> logger)
```

#### **Parameters**

ТҮРЕ	NAME	DESCRIPTION
SearchifyContext	context	
Microsoft.Extensions.Logging.ILogger <documentcontroller></documentcontroller>	logger	

#### Methods

# Delete(Int32)

Controler method that deletes a book with id passed in request url

Declaration

```
[HttpDelete("{id}")]
public IActionResult Delete(int id)
```

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	id	Id of the document to be deleted

#### Returns

ТҮРЕ	DESCRIPTION

ТҮРЕ	DESCRIPTION	
Microsoft. AspNetCore. Mvc. I Action Result	A Response instance containing deleted document Document and Response < T >	

## Get(Int32)

Controler method that returns information about a single book

Declaration

```
[HttpGet("{id}")]
public ActionResult<Response<List<Document>>> Get(int id)
```

#### **Parameters**

ТҮРЕ	NAME	DESCRIPTION
System.Int32	id	Book id passed from the request url

#### Returns

ТҮРЕ	DESCRIPTION
$\label{lem:microsoft} Microsoft. AspNetCore. Mvc. Action Result < \textcolor{red}{Response} < System. Collections. Generic. List < \textcolor{red}{Document} > > > > > > > > > > > > > > > > > > >$	A Response instance Containing a Document Document and Response < T >

## GetAII()

Handles Api request to get all documents

Declaration

```
[HttpGet]
public ActionResult<Response<List<Document>>> GetAll()
```

#### Returns

ТУРЕ	DESCRIPTION
Microsoft.AspNetCore.Mvc.ActionResult < Response < System.Collections.Generic.List < Document > > >	A Response instance Containing a List of Documents Document and Response <t></t>

# Post(Document)

Controler method that created a Document

Declaration

# [HttpPost] public ActionResult<Response<Document>> Post(Document data)

ТҮРЕ	NAME	DESCRIPTION
Document	data	JSon data to create the book from

#### Returns

ТҮРЕ	DESCRIPTION
Microsoft.AspNetCore.Mvc.ActionResult < Response < Document > >	A Response instance Containing created Document Document and Response < T >

#### Post(List<Document>)

Controler method that allows mutliple document update

#### Declaration

```
[HttpPost("/api/search/batch-upload")]
public ActionResult<Response<Document>> Post(List<Document> data)
```

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Collections.Generic.List < Document >	data	List of Documents

#### Returns

ТҮРЕ	DESCRIPTION
Microsoft.AspNetCore.Mvc.ActionResult < Response < Document > >	A Response instance Containing a Documents Document and Response <t></t>

# update(Int32, Document)

Controler method that updates a book with id passed in request url

#### Declaration

```
[HttpPut("{id}")]
public IActionResult update(int id, Document updatedDoc)
```

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	id	Id of the document to be updates
Document	updatedDoc	

Returns

ТҮРЕ	DESCRIPTION
Microsoft.AspNetCore.Mvc.IActionResult	A Response instance containing updated document Document and Response <t></t>

# Class SearchController

Search controller class

Inheritance

System.Object

Microsoft.AspNetCore.Mvc.ControllerBase

SearchController

Inherited Members

Microsoft.AspNetCore.Mvc.ControllerBase.Accepted()

Microsoft.AspNetCore.Mvc.ControllerBase.Accepted(System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.Accepted(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.Accepted(System.String, System.Object)

Microsoft. AspNetCore. Mvc. Controller Base. Accepted (System. Uri)

Microsoft.AspNetCore.Mvc.ControllerBase.Accepted(System.Uri, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtAction(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtAction(System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtAction(System.String, System.Object, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtAction(System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtAction(System.String, System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtAction(System.String, System.String, System.Object, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtRoute(System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtRoute(System.Object, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtRoute(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtRoute(System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.AcceptedAtRoute(System.String, System.Object, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.BadRequest()

Microsoft.AspNetCore.Mvc.ControllerBase.BadRequest(Microsoft.AspNetCore.Mvc.ModelBinding.ModelStateDictionary)

Microsoft. AspNetCore. Mvc. Controller Base. BadRequest (System. Object)

Microsoft. AspNetCore. Mvc. Controller Base. Challenge ()

Microsoft. AspNetCore. Mvc. Controller Base. Challenge (Microsoft. AspNetCore. Authentication. Authentication Properties)

 $\label{lem:microsoft.} Microsoft. AspNetCore. Mvc. Controller Base. Challenge (Microsoft. AspNetCore. Authentication. Authentication Properties, System. String [])$ 

Microsoft.AspNetCore.Mvc.ControllerBase.Challenge(System.String[])

Microsoft. AspNetCore. Mvc. Controller Base. Conflict()

Microsoft. AspNetCore. Mvc. Controller Base. Conflict (Microsoft. AspNetCore. Mvc. Model Binding. Model State Dictionary)

Microsoft.AspNetCore.Mvc.ControllerBase.Conflict(System.Object)

Microsoft. AspNetCore. Mvc. Controller Base. Content (System. String)

Microsoft.AspNetCore.Mvc.ControllerBase.Content(System.String, Microsoft.Net.Http.Headers.MediaTypeHeaderValue)

Microsoft. AspNetCore. Mvc. Controller Base. Content (System. String)

Microsoft.AspNetCore.Mvc.ControllerBase.Content(System.String, System.String, System.Text.Encoding)

Microsoft.AspNetCore.Mvc.ControllerBase.Created(System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.Created(System.Uri, System.Object)

Microsoft. Asp Net Core. Mvc. Controller Base. Created At Action (System. String, System. Object)

Microsoft.AspNetCore.Mvc.ControllerBase.CreatedAtAction(System.String, System.Object, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.CreatedAtAction(System.String, System.Object, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.CreatedAtRoute(System.Object, System.Object)

Microsoft. AspNetCore. Mvc. Controller Base. Created AtRoute (System. String, System. Object)

Microsoft. Asp Net Core. Mvc. Controller Base. Created At Route (System. String, System. Object, System. Object)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.Byte[], System.String)

Microsoft. AspNetCore. Mvc. Controller Base. File (System. Byte [], System. String, System. Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.Byte[], System.String, System.Nullable<System.DateTimeOffset>,

Microsoft.Net.Http.Headers.EntityTagHeaderValue)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.Byte[], System.String, System.Nullable < System.DateTimeOffset >,

Microsoft.Net.Http.Headers.EntityTagHeaderValue, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.Byte[], System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.Byte[], System.String, System.String, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.Byte[], System.String, System.String,

System.Nullable < System.DateTimeOffset > , Microsoft.Net.Http.Headers.EntityTagHeaderValue)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.Byte[], System.String, System.String,

System.Nullable < System.DateTimeOffset >, Microsoft.Net.Http.Headers.EntityTagHeaderValue, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String, System.Nullable < System.DateTimeOffset >,

Microsoft.Net.Http.Headers.EntityTagHeaderValue)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String, System.Nullable < System.DateTimeOffset >,

Microsoft. Net. Http. Headers. Entity Tag Header Value, System. Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String, System.String, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String, System.String,

System.Nullable < System.DateTimeOffset >, Microsoft.Net.Http.Headers.EntityTagHeaderValue)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.IO.Stream, System.String, System.String,

System.Nullable < System.DateTimeOffset >, Microsoft.Net.Http.Headers.EntityTaqHeaderValue, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.String, System.String, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.String, System.String, System.Nullable < System.DateTimeOffset >,

Microsoft.Net.Http.Headers.EntityTagHeaderValue)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.String, System.String, System.Nullable < System.DateTimeOffset >,

Microsoft.Net.Http.Headers.EntityTagHeaderValue, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.String, System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.File(System.String, System.String, System.String, System.Boolean)

Microsoft. AspNetCore. Mvc. Controller Base. File (System. String, System. S

System.Nullable < System.DateTimeOffset > , Microsoft.Net.Http.Headers.EntityTagHeaderValue)

Microsoft. Asp Net Core. Mvc. Controller Base. File (System. String, System. String, System.

System.Nullable < System.DateTimeOffset >, Microsoft.Net.Http.Headers.EntityTagHeaderValue, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.Forbid()

Microsoft. AspNetCore. Mvc. Controller Base. Forbid (Microsoft. AspNetCore. Authentication. Authentication Properties)

Microsoft.AspNetCore.Mvc.ControllerBase.Forbid(Microsoft.AspNetCore.Authentication.AuthenticationProperties, System.String[])

Microsoft.AspNetCore.Mvc.ControllerBase.Forbid(System.String[])

Microsoft.AspNetCore.Mvc.ControllerBase.LocalRedirect(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.LocalRedirectPermanent(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.LocalRedirectPermanentPreserveMethod(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.LocalRedirectPreserveMethod(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.NoContent()

Microsoft. AspNetCore. Mvc. Controller Base. NotFound ()

Microsoft.AspNetCore.Mvc.ControllerBase.NotFound(System.Object)

Microsoft. AspNetCore. Mvc. Controller Base. Ok()

Microsoft.AspNetCore.Mvc.ControllerBase.Ok(System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String, System.Nullable < System.DateTimeOffset >,

Microsoft. Net. Http. Headers. Entity Tag Header Value)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String, System.Nullable < System.DateTimeOffset >,

Microsoft.Net.Http.Headers.EntityTagHeaderValue, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String, System.String, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String, System.String

System.Nullable < System.DateTimeOffset >, Microsoft.Net.Http.Headers.EntityTagHeaderValue)

Microsoft.AspNetCore.Mvc.ControllerBase.PhysicalFile(System.String, System.String, System.String

System.Nullable<System.DateTimeOffset>, Microsoft.Net.Http.Headers.EntityTagHeaderValue, System.Boolean)

Microsoft.AspNetCore.Mvc.ControllerBase.Problem(System.String, System.String, System.Nullable < System.Int32 > , System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.Redirect(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectPermanent(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectPermanentPreserveMethod(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectPreserveMethod(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToAction()

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToAction(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToAction(System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToAction(System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToAction(System.String, System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToAction(System.String, System.String, System.Object, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToAction(System.String, System.String, System.String)

Microsoft. AspNetCore. Mvc. Controller Base. Redirect To Action Permanent (System. String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToActionPermanent(System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToActionPermanent(System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToActionPermanent(System.String, System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToActionPermanent(System.String, System.String, System.Object, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToActionPermanent(System.String, System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToActionPermanentPreserveMethod(System.String, System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToActionPreserveMethod(System.String, System.String, System.Object, System.String)

Microsoft. AspNetCore. Mvc. Controller Base. Redirect ToPage (System. String)

Microsoft. Asp Net Core. Mvc. Controller Base. Redirect ToPage (System. String, System. Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPage(System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPage(System.String, System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPage(System.String, System.String, System.Object, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPage(System.String, System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPagePermanent(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPagePermanent(System.String, System.Object)

Microsoft. AspNetCore. Mvc. Controller Base. Redirect To Page Permanent (System. String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPagePermanent(System.String, System.String, System.Object, System.String)

Microsoft. Asp Net Core. Mvc. Controller Base. Redirect To Page Permanent (System. String, System. String)

Microsoft. AspNetCore. Mvc. Controller Base. Redirect ToPage Permanent Preserve Method (System. String, System. String, Syst

System.Object, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToPagePreserveMethod(System.String, System.String, System.Object, System.String)

Microsoft. AspNetCore. Mvc. Controller Base. Redirect To Route (System. Object)

Microsoft. AspNetCore. Mvc. Controller Base. RedirectToRoute (System. String)

Microsoft. AspNetCore. Mvc. Controller Base. Redirect To Route (System. String, System. Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToRoute(System.String, System.Object, System.String)

Microsoft. AspNetCore. Mvc. Controller Base. RedirectToRoute (System. String)

Microsoft. AspNetCore. Mvc. Controller Base. Redirect To Route Permanent (System. Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToRoutePermanent(System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToRoutePermanent(System.String, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToRoutePermanent(System.String, System.Object, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToRoutePermanent(System.String, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToRoutePermanentPreserveMethod(System.String, System.Object, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.RedirectToRoutePreserveMethod(System.String, System.Object, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.SignIn(System.Security.Claims.ClaimsPrincipal,

Microsoft.AspNetCore.Authentication.AuthenticationProperties, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.SignIn(System.Security.Claims.ClaimsPrincipal, System.String)

Microsoft. AspNetCore. Mvc. Controller Base. SignOut (Microsoft. AspNetCore. Authentication. Authentication Properties, and the controller Base. SignOut (Microsoft. AspNetCore. Authentication.) And the controller Base. SignOut (Microsoft. AspNetCore. Authentication.) And the controller Base. SignOut (Microsoft. AspNetCore.) And the controller Base. SignOut (Mi

System.String[])

 $Microsoft. AspNetCore. Mvc. Controller Base. SignOut (System. String \cite{Microsoft.}) and the property of the property of$ 

Microsoft.AspNetCore.Mvc.ControllerBase.StatusCode(System.Int32)

Microsoft.AspNetCore.Mvc.ControllerBase.StatusCode(System.Int32, System.Object)

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync(System.Object, System.Type, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync(System.Object, System.Type, System.String,

Microsoft.AspNetCore.Mvc.ModelBinding.IValueProvider, System.Func<Microsoft.AspNetCore.Mvc.ModelBinding.ModelMetadata, System.Boolean>)

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync<TModel>(TModel)

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync<TModel>(TModel, System.String)

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync<TModel>(TModel, System.String,

Microsoft.AspNetCore.Mvc.ModelBinding.IValueProvider)

Microsoft. AspNetCore. Mvc. Controller Base. Try Update Model Async < TModel > (TModel, System. String, Asynchemical Controller Base) and the support of t

Microsoft.AspNetCore.Mvc.ModelBinding.IValueProvider, System.Func < Microsoft.AspNetCore.Mvc.ModelBinding.ModelMetadata, System.Boolean >)

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync<TModel>(TModel, System.String,

Microsoft.AspNetCore.Mvc.ModelBinding.IValueProvider, System.Linq.Expressions.Expression < System.Func < TModel,

System.Object>>[])

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync<TModel>(TModel, System.String,

System.Func<Microsoft.AspNetCore.Mvc.ModelBinding.ModelMetadata, System.Boolean>)

Microsoft.AspNetCore.Mvc.ControllerBase.TryUpdateModelAsync<TModel>(TModel, System.String,

System.Ling.Expressions.Expression<System.Func<TModel, System.Object>>[])

Microsoft.AspNetCore.Mvc.ControllerBase.TryValidateModel(System.Object)

Microsoft. AspNetCore. Mvc. Controller Base. Try Validate Model (System. Object, System. String)

Microsoft.AspNetCore.Mvc.ControllerBase.Unauthorized()

Microsoft. AspNetCore. Mvc. Controller Base. Unauthorized (System. Object)

Microsoft.AspNetCore.Mvc.ControllerBase.UnprocessableEntity()

Microsoft. AspNetCore. Mvc. Controller Base. Unprocessable Entity (Microsoft. AspNetCore. Mvc. Model Binding. Model State Dictionary)

Microsoft. AspNetCore. Mvc. Controller Base. Unprocessable Entity (System. Object)

Microsoft.AspNetCore.Mvc.ControllerBase.ValidationProblem()

Microsoft. AspNetCore. Mvc. Controller Base. Validation Problem (Microsoft. AspNetCore. Mvc. Model Binding. Model State Dictionary)

Microsoft. AspNetCore. Mvc. Controller Base. Validation Problem (Microsoft. AspNetCore. Mvc. Validation Problem Details)

Microsoft. AspNetCore. Mvc. Controller Base. Validation Problem (System. String, System. String, System. Nullable < System. Int 32 > 1, 2000. Application of the problem of the problem

System.String, System.String, Microsoft.AspNetCore.Mvc.ModelBinding.ModelStateDictionary)

Microsoft. AspNetCore. Mvc. Controller Base. Controller Context

Microsoft.AspNetCore.Mvc.ControllerBase.HttpContext

Microsoft.AspNetCore.Mvc.ControllerBase.MetadataProvider

Microsoft. AspNetCore. Mvc. Controller Base. Model Binder Factory

Microsoft. AspNetCore. Mvc. Controller Base. Model State

Microsoft.AspNetCore.Mvc.ControllerBase.ObjectValidator

Microsoft. AspNetCore. Mvc. Controller Base. Problem Details Factory

Microsoft.AspNetCore.Mvc.ControllerBase.Request

Microsoft. AspNetCore. Mvc. Controller Base. Response

Microsoft. AspNetCore. Mvc. Controller Base. Route Data

Microsoft. AspNetCore. Mvc. Controller Base. Url

Microsoft. AspNetCore. Mvc. Controller Base. User

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: Searchify.Controllers

Assembly: Searchify.dll

Syntax

#### [ApiController]

[Route("/api/search")]

public class SearchController : ControllerBase

#### Constructors

SearchController(SearchifyContext, ILogger<SearchController>)

Search controller initializer

Declaration

public SearchController(SearchifyContext context, ILogger<SearchController> logger)

#### **Parameters**

ТҮРЕ	NAME	DESCRIPTION
SearchifyContext	context	
Microsoft.Extensions.Logging.ILogger < SearchController >	logger	

#### Methods

# Get(SearchQuery)

Method that handles search request, takes in query and run it against

Declaration

# [HttpGet]

public IActionResult Get([FromQuery] SearchQuery parameters)

## Parameters

ТУРЕ	NAME	DESCRIPTION
SearchQuery	parameters	query string, autosuggestions bool

Returns

ТҮРЕ	DESCRIPTION
Microsoft.AspNetCore.Mvc.IActionResult	Response with list of matching documents

# Namespace Searchify.Domain.Models

Classes

**Document** 

Database model for Document

SearchHit

 ${\sf SearchifyContext}$ 

Database context for the searchify api

SearchQuery

model for incoming search requests

Suggestions

DB model for auto complete suggestions

Interfaces

ISearchify Context

# Class Document

Database model for Document

Inheritance

System.Object

Document

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. Reference Equals (System. Object, System. Object)

System.Object.ToString()

Namespace: Searchify.Domain.Models

Assembly: Searchify.dll

Syntax

```
public class Document
```

#### **Properties**

#### black\_listed

Declaration

```
[JsonIgnore]
public bool black_listed { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

id

auto generated id the doc

Declaration

```
[DatabaseGenerated(DatabaseGeneratedOption.Identity)]
public int id { get; set; }
```

Property Value

are 9 and		
ТҮРЕ	DESCRIPTION	
System.Int32		

#### name

name of the document

Declaration

```
[JsonRequired]
[JsonProperty("name")]
public string name { get; set; }
```

## Property Value

ТҮРЕ	DESCRIPTION
System.String	

# preview\_text

preview text of the document

Declaration

```
[JsonRequired]
[JsonProperty("preview_text")]
public string preview_text { get; set; }
```

# Property Value

ТҮРЕ	DESCRIPTION
System.String	

#### url

document url

Declaration

```
[JsonRequired]
[JsonProperty("url")]
public string url { get; set; }
```

## Property Value

ТҮРЕ	DESCRIPTION
System.String	

# $white\_listed$

Declaration

```
[JsonIgnore]
public bool white_listed { get; set; }
```

ТУРЕ	DESCRIPTION
System.Boolean	

# Interface ISearchifyContext

Name space: Searchify. Domain. Models

Assembly: Searchify.dll

Syntax

public interface ISearchifyContext

# **Properties**

## Documents

Declaration

DbSet<Document> Documents { get; set; }

ТҮРЕ	DESCRIPTION
Microsoft.EntityFrameworkCore.DbSet < Document >	

# Class SearchHit

Inheritance

System.Object

SearchHit

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. Reference Equals (System. Object, System. Object)

System.Object.ToString()

Namespace: Searchify.Domain.Models

Assembly: Searchify.dll

Syntax

public class SearchHit

#### Constructors

## SearchHit(Document, String)

Declaration

public SearchHit(Document doc, string previewText)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
Document	doc	
System.String	previewText	

#### **Properties**

link

Declaration

```
public string link { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

#### text

Declaration

```
public string text { get; }
```

ТҮРЕ	DESCRIPTION
System.String	

# Class SearchifyContext

Database context for the searchify api

Inheritance

System.Object

Microsoft.EntityFrameworkCore.DbContext

SearchifyContext

Implements

Microsoft.EntityFrameworkCore.Infrastructure.IInfrastructure<System.IServiceProvider>

Microsoft.EntityFrameworkCore.Internal.IDbContextDependencies

Microsoft.EntityFrameworkCore.Internal.IDbSetCache

Microsoft.EntityFrameworkCore.Internal.IDbContextPoolable

System.IDisposable

System.lAsyncDisposable

Microsoft. Entity Framework Core. In frastructure. IR es et table Service

**ISearchifyContext** 

Inherited Members

 $\label{lem:microsoft} \begin{tabular}{ll} Microsoft. Entity Framework Core. Internal. IDb Set Cache. Get Or Add Set (Microsoft. Entity Framework Core. Internal. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. Internal. IDb Set Cache. Get Or Add Set (Microsoft. Entity Framework Core. Internal. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. Internal. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. Internal. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. Internal. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. Internal. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. Internal. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. Internal. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. Internal. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. Internal. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. Internal. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. Internal. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. Internal. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. Internal. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. Internal. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. IDb Set Source, System. Type) \\ \begin{tabular}{ll} Framework Core. IDb Set Source, System. Type) \\ \ben$ 

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Microsoft.EntityFrameworkCore.DbContext.Set<TEntity>()

Microsoft.EntityFrameworkCore.DbContext.Set<TEntity>(System.String)

Microsoft. Entity Framework Core. DbContext. On Configuring (Microsoft. Entity Framework Core. DbContext Options Builder) and the property of the property o

Microsoft.EntityFrameworkCore.DbContext.SaveChanges()

Microsoft. Entity Framework Core. Db Context. Save Changes (System. Boolean)

Microsoft. Entity Framework Core. Db Context. Save Changes Async (System. Threading. Cancellation Token)

Microsoft. Entity Framework Core. Db Context. Save Changes Async (System. Boolean, System. Threading. Cancellation Token) and the properties of the Context of the Contex

Microsoft. Entity Framework Core. DbContext. Microsoft. Entity Framework Core. Internal. IDbContext Poolable. Clear Lease ()

Microsoft. Entity Framework Core. DbContext. Microsoft. Entity Framework Core. Internal. IDbContext Poolable. Set Lease (Microsoft. Entity Framework Core. Internal. DbContext Lease) and the properties of the

Microsoft. Entity Framework Core. DbContext. Microsoft. Entity Framework Core. Internal. IDbContext Poolable. Snapshot Configuration () and the properties of the properties

Microsoft. Entity Framework Core. DbContext. Microsoft. Entity Framework Core. In frastructure. IR esettable Service. Reset State() and the first of the first

Microsoft. Entity Framework Core. DbContext. Microsoft. Entity Framework Core. In frastructure. IR esettable Service. Reset State Async (System. Threading. Cancellation Token) and the first of the first of the first open states and the first open states are the first open states and the first open states are the first open states and the first open states are the first open states and the first open states are the first open states and the first open states are the first open states and the first open states are the first open sta

Microsoft. Entity Framework Core. Db Context. Dispose ()

Microsoft. Entity Framework Core. Db Context. Dispose Async ()

Microsoft. Entity Framework Core. Db Context. Entry < TEntity > (TEntity)

Microsoft. Entity Framework Core. Db Context. Entry (System. Object)

Microsoft. Entity Framework Core. Db Context. Add < TEntity > (TEntity)

Microsoft. Entity Framework Core. DbContext. Add Async < TEntity > (TEntity, System. Threading. Cancellation Token)

Microsoft.EntityFrameworkCore.DbContext.Attach<TEntity>(TEntity)

Microsoft. Entity Framework Core. Db Context. Update < TEntity > (TEntity)

Microsoft. Entity Framework Core. DbContext. Remove < TEntity > (TEntity)

Microsoft. Entity Framework Core. Db Context. Add (System. Object)

Microsoft. Entity Framework Core. DbContext. Add Async (System. Object, System. Threading. Cancellation Token) and the properties of the

Microsoft.EntityFrameworkCore.DbContext.Attach(System.Object)

Microsoft.EntityFrameworkCore.DbContext.Update(System.Object)

Microsoft.EntityFrameworkCore.DbContext.Remove(System.Object)

Microsoft. Entity Framework Core. Db Context. Add Range (System. Object [])

 $Microsoft. Entity Framework Core. Db Context. Add Range Async (System. Object \cite{Context}) and the context of the context$ 

 $Microsoft. Entity Framework Core. Db Context. Attach Range (System. Object \cite{Context}) and the context of the context of$ 

 ${\bf Microsoft.EntityFrameworkCore.DbContext.UpdateRange(System.Object[])}$ 

 $Microsoft. Entity Framework Core. Db Context. Remove Range (System. Object \cite{Context}) and the context of the context of$ 

 ${\it Microsoft.} Entity Framework Core. DbContext. AddRange (System. Collections. Generic. I Enumerable < System. Object > )$ 

Microsoft. Entity Framework Core. DbContext. Add Range Async (System. Collections. Generic. I Enumerable < System. Object > , System. Threading. Cancellation Token) and the context of the context of

 ${\it Microsoft.} Entity Framework Core. DbContext. Attach Range (System. Collections. Generic. I Enumerable < System. Object > )$ 

Microsoft. Entity Framework Core. DbContext. Update Range (System. Collections. Generic. I Enumerable < System. Object >)

Microsoft. Entity Framework Core. Db Context. Remove Range (System. Collections. Generic. I Enumerable < System. Object >)

 $Microsoft. Entity Framework Core. Db Context. Find (System. Type, System. Object \cite{Context}) and the context of the cont$ 

Microsoft. Entity Framework Core. Db Context. Find Async (System. Type, System. Object [])

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Microsoft.EntityFrameworkCore.DbContext.Find < TEntity > (System.Object[])

Microsoft. Entity Framework Core. DbContext. Find Async < TEntity > (System. Object [])

Microsoft. Entity Framework Core. DbContext. Find Async < TEntity > (System. Object[], System. Threading. Cancellation Token)

Microsoft. Entity Framework Core. Db Context. From Expression < TResult >>>)

Microsoft. Entity Framework Core. Db Context. Database

Microsoft.EntityFrameworkCore.DbContext.ChangeTracker

Microsoft. Entity Framework Core. Db Context. Model

Microsoft. Entity Framework Core. Db Context. Context Id

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Microsoft. Entity Framework Core. Db Context. Saving Changes

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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: Searchify.Domain.Models

Assembly: Searchify.dll

Syntax

public class SearchifyContext : DbContext, IInfrastructure<IServiceProvider>, IDbContextDependencies, IDbSetCache, IDbContextPoolable,
IDisposable, IAsyncDisposable, IResettableService, ISearchifyContext

#### Constructors

#### SearchifyContext(DbContextOptions<SearchifyContext>)

Declaration

public SearchifyContext(DbContextOptions<SearchifyContext> options)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
$\label{lem:microsoft} Microsoft. Entity Framework Core. Db Context Options < \underbrace{Searchify Context}_{} >$	options	

#### **Properties**

#### Documents

#### Documents set

Declaration

public DbSet<Document> Documents { get; set; }

Property Value

ТУРЕ	DESCRIPTION
Microsoft.EntityFrameworkCore.DbSet < Document >	

# Suggestions

#### Suggestions set

Declaration

public DbSet<Suggestions> Suggestions { get; set; }

Property Value

-17		
TYPE		DESCRIPTION
Microso	oft.EntityFrameworkCore.DbSet <suggestions></suggestions>	

#### Methods

## On Model Creating (Model Builder)

Declaration

protected override void OnModelCreating(ModelBuilder modelBuilder)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft.EntityFrameworkCore.ModelBuilder	modelBuilder	

#### Overrides

Microsoft. Entity Framework Core. Db Context. On Model Creating (Microsoft. Entity Framework Core. Model Builder)

#### Implements

Microsoft.EntityFrameworkCore.Infrastructure.IInfrastructure<T>
Microsoft.EntityFrameworkCore.Internal.IDbContextDependencies
Microsoft.EntityFrameworkCore.Internal.IDbSetCache
Microsoft.EntityFrameworkCore.Internal.IDbContextPoolable
System.IDisposable
System.IAsyncDisposable

 $\label{lem:lemma$ 

# Class SearchQuery

model for incoming search requests

Inheritance

System.Object

SearchQuery

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System. Object. Memberwise Clone ()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: Searchify.Domain.Models

Assembly: Searchify.dll

Syntax

public class SearchQuery

#### **Properties**

#### autocomplete

autocomplete param to determine whether to search the index or show suggestions

Declaration

```
public bool autocomplete { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

# query

query string param

Declaration

```
[BindRequired]
public string query { get; set; }
```

ТҮРЕ	DESCRIPTION
System.String	

# **Class Suggestions**

DB model for auto complete suggestions

Inheritance

System.Object

Suggestions

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System. Object. Memberwise Clone ()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: Searchify.Domain.Models

Assembly: Searchify.dll

Syntax

```
public class Suggestions
```

#### **Properties**

id

Declaration

```
public string id { get; set; }
```

# Property Value

ТҮРЕ	DESCRIPTION
System.String	

## query

Declaration

```
public string query { get; set; }
```

# Property Value

ТҮРЕ	DESCRIPTION
System.String	

#### rank

Declaration

```
public int rank { get; set; }
```

ТҮРЕ	DESCRIPTION
System.Int32	

# Namespace Searchify.Domain.Utils

## Classes

# Helpers

Helper class that marks auto complete suggestions to indicate relevance to original query

## Response<T>

Class that helps structure json response

#### Stemmer

# Stopwords

Static class that houses logic for removing stop words from a query

## Tokenizer

Static class that houses tokenization logic

#### Utils

Static class housing a number of utility methods

# **Class Helpers**

Helper class that marks auto complete suggestions to indicate relevance to original query

Inheritance

System.Object

Helpers

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: Searchify.Domain.Utils

Assembly: Searchify.dll

Syntax

public static class Helpers

#### Methods

MarkSuggestions(List<String>, String)

Method to return

Declaration

public static string MarkSuggestions(List<string> token, string sentence)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Collections.Generic.List < System.String >	token	List of strings to mark
System.String	sentence	Suggestion string to marked

#### Returns

ТҮРЕ	DESCRIPTION
System.String	Resultant string with html markings

# Class Response<T>

Class that helps structure json response

Inheritance

System.Object

Response<T>

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: Searchify.Domain.Utils

Assembly: Searchify.dll

Syntax

public class Response<T>

#### Type Parameters

NAME	DESCRIPTION
Т	Type of data in response

#### Constructors

#### Response(T, String)

Declaration

public Response(T response, string responseMessage)

#### **Parameters**

ТҮРЕ	NAME	DESCRIPTION
Т	response	
System.String	responseMessage	

#### **Properties**

data

data passed to response

Declaration

public T data { get; }

Property Value

ТҮРЕ	DESCRIPTION
Т	

# message

# message sent

Declaration

```
public string message { get; }
```

## Property Value

ТҮРЕ	DESCRIPTION
System.String	

# **Class Stemmer**

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. Reference Equals (System. Object, System. Object)

System.Object.ToString()

Namespace: Searchify.Domain.Utils

Assembly: Searchify.dll

Syntax

public class Stemmer

#### Methods

#### StemWord(String)

Stem the passed in word.

Declaration

public string StemWord(string word)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	word	Word to evaluate

ТҮРЕ	DESCRIPTION
System.String	

# **Class Stopwords**

Static class that houses logic for removing stop words from a query

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: Searchify.Domain.Utils

Assembly: Searchify.dll

Syntax

public static class Stopwords

#### Methods

#### Clean(String)

Takes a string and removes the stop words in the string

Declaration

public static List<string> Clean(string word)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	word	string from which to remove stop words

#### Returns

ТҮРЕ	DESCRIPTION
System.Collections.Generic.List < System.String >	String without stop words

#### compareQuery(List<String>, String)

Helper method to determine if a string contains valid tokens that are not stop words

Declaration

public static bool compareQuery(List<string> queryTokens, string suggestionTokens)

**Parameters** 

ТҮРЕ	NAME	DESCRIPTION
System.Collections.Generic.List < System.String >	queryTokens	List of query tokes
System.String	suggestionTokens	String

#### Returns

ТҮРЕ	DESCRIPTION
System.Boolean	boolean to determine if string is a valid suggestion based on query tokens or not

# LoadStopWords()

Creates a Hashset of possible stop words in the english vocabulary

## Declaration

public static HashSet<string> LoadStopWords()

ТҮРЕ	DESCRIPTION
System.Collections.Generic.HashSet < System.String >	A set of english stop words

# 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: Searchify.Domain.Utils

Assembly: Searchify.dll

Syntax

public static class Tokenizer

#### Methods

Tokenize(String)

Tokenizes text

Declaration

public static string[] Tokenize(string text)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	text	any string value

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

# 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: Searchify.Domain.Utils

Assembly: Searchify.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

ТҮРЕ	NAME	DESCRIPTION
System.String	text	any string value

#### Returns

ТҮРЕ	DESCRIPTION
System.String	cleaned text

#### ToDeltaList(List<Int32>)

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

Declaration

public static List<ulong> ToDeltaList(List<int> list)

**Parameters** 

ТҮРЕ	NAME	DESCRIPTION
System.Collections.Generic.List < System.Int32 >	list	list of nonnegative integers

ТҮРЕ	DESCRIPTION
System.Collections.Generic.List < System.UInt64>	list of delta ulong values

# Namespace Searchify.DynamoDb

Classes

**DbClient** 

# Class DbClient

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. Reference Equals (System. Object, System. Object)

System.Object.ToString()

Namespace: Searchify.DynamoDb

Assembly: Searchify.dll

Syntax

public static class DbClient

#### Fields

#### Client

Declaration

public static AmazonDynamoDBClient Client

#### Field Value

ТҮРЕ	DESCRIPTION
Amazon.DynamoDBv2.AmazonDynamoDBClient	

#### Methods

#### CheckTableExists(String)

Declaration

public static async Task<bool> CheckTableExists(string tableName)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	tableName	

### Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task < System.Boolean >	

### CreateClient(Boolean)

Declaration

public static bool CreateClient(bool useLocal)

#### **Parameters**

ТҮРЕ	NAME	DESCRIPTION
System.Boolean	useLocal	

#### Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

# CreateTable(String, List<AttributeDefinition>, List<KeySchemaElement>, ProvisionedThroughput)

Declaration

public static async Task<bool> CreateTable(string tableName, List<AttributeDefinition> tableAttributes,
List<KeySchemaElement> tableKeySchema, ProvisionedThroughput provisionedThroughput)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	tableName	
System.Collections.Generic.List < Amazon.DynamoDBv2.Model.AttributeDefinition >	tableAttributes	
System.Collections.Generic.List < Amazon.DynamoDBv2.Model.KeySchemaElement >	tableKeySchema	
Amazon. Dynamo DBv 2. Model. Provisioned Throughput	provisionedThroughput	

#### Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task < System.Boolean >	

#### CreateTables()

Declaration

public static async Task CreateTables()

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

## GetTableDescription(String)

Declaration

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

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	tableName	

ТҮРЕ	NAME	DESCRIPTION

ТҮРЕ	DESCRIPTION	
System. Threading. Tasks. Task < Amazon. Dynamo DBv2. Model. Table Description >		

# Namespace Searchify.DynamoDb.Models

Classes

Inverted Index Model

# Class InvertedIndexModel

Inheritance

System.Object

InvertedIndexModel

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()

Name space: Searchify. Dynamo Db. Models

Assembly: Searchify.dll

Syntax

public class InvertedIndexModel

#### Methods

#### AppendIndexTerm(String, IndexTerm)

Declaration

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

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	term	
IndexTerm	indexTerm	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < System. Net. HttpStatusCode >	

#### CheckTermIndexed(String)

Declaration

public static bool CheckTermIndexed(string term)

#### **Parameters**

ТУРЕ	NAME	DESCRIPTION
System.String	term	

ТУРЕ	DESCRIPTION
System.Boolean	

# GetIndexTermList(String)

Declaration

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

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	term	

#### Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <system.collections.generic.list<indexterm>&gt;</system.collections.generic.list<indexterm>	

## GetLastId()

Declaration

public static async Task<uint> GetLastId()

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < System. UInt 32 >	

#### SetLastId(UInt32)

Declaration

public static async Task<PutItemResponse> SetLastId(uint lastId)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.UInt32	lastId	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Amazon. Dynamo DBv 2. Model. Put I tem Response >	

# Namespace Searchify. Migrations

Classes

changed docid type

created tables

extenddocidtype

# Class changeddocidtype

Inheritance

System.Object

Microsoft. Entity Framework Core. Migrations. Migration

changeddocidtype

Inherited Members

Microsoft. Entity Framework Core. Migrations. Migration. Initial Database

Microsoft. Entity Framework Core. Migrations. Migration. Target Model

Microsoft. Entity Framework Core. Migrations. Migration. Up Operations

Microsoft. Entity Framework Core. Migrations. Migration. Down Operations

Microsoft.EntityFrameworkCore.Migrations.Migration.ActiveProvider

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: Searchify.Migrations

Assembly: Searchify.dll

Syntax

[DbContext(typeof(SearchifyContext))]
[Migration("20210828145311\_changed doc id type")]
public class changeddocidtype : Migration

#### Methods

#### BuildTargetModel(ModelBuilder)

Declaration

protected override void BuildTargetModel(ModelBuilder modelBuilder)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Entity Framework Core. Model Builder	modelBuilder	

#### Overrides

Microsoft. Entity Framework Core. Migrations. Migration. Build Target Model (Microsoft. Entity Framework Core. Model Builder)

#### Down(MigrationBuilder)

Declaration

protected override void Down(MigrationBuilder migrationBuilder)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft.EntityFrameworkCore.Migrations.MigrationBuilder	migrationBuilder	

Overrides

Microsoft. Entity Framework Core. Migrations. Migration. Down (Microsoft. Entity Framework Core. Migrations. Migration Builder)

## Up(MigrationBuilder)

Declaration

protected override void Up(MigrationBuilder migrationBuilder)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Entity Framework Core. Migrations. Migration Builder	migrationBuilder	

#### Overrides

Microsoft. Entity Framework Core. Migrations. Migration Supplies the Core and Migration Supplies the Migration Supplies the Core and Migration Supplies the

# Class createdtables

Inheritance

System.Object

Microsoft. Entity Framework Core. Migrations. Migration

createdtables

Inherited Members

Microsoft. Entity Framework Core. Migrations. Migration. Initial Database

Microsoft. Entity Framework Core. Migrations. Migration. Target Model

Microsoft. Entity Framework Core. Migrations. Migration. Up Operations

Microsoft. Entity Framework Core. Migrations. Migration. Down Operations

Microsoft. Entity Framework Core. Migrations. Migration. Active Provider

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: Searchify.Migrations

Assembly: Searchify.dll

Syntax

[DbContext(typeof(SearchifyContext))]
[Migration("20210824013429\_created tables")]
public class createdtables : Migration

#### Methods

#### BuildTargetModel(ModelBuilder)

Declaration

protected override void BuildTargetModel(ModelBuilder modelBuilder)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Entity Framework Core. Model Builder	modelBuilder	

Overrides

Microsoft. Entity Framework Core. Migrations. Migration. Build Target Model (Microsoft. Entity Framework Core. Model Builder)

#### Down(MigrationBuilder)

Declaration

protected override void Down(MigrationBuilder migrationBuilder)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Entity Framework Core. Migrations. Migration Builder	migrationBuilder	

Overrides

Microsoft. Entity Framework Core. Migrations. Migration. Down (Microsoft. Entity Framework Core. Migrations. Migration Builder)

## Up(MigrationBuilder)

Declaration

protected override void Up(MigrationBuilder migrationBuilder)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Entity Framework Core. Migrations. Migration Builder	migrationBuilder	

#### Overrides

Microsoft. Entity Framework Core. Migrations. Migration Supplies the Core and Migration Supplies the Migration Supplies the Core and Migration Supplies the

# Class extenddocidtype

Inheritance

System.Object

 $\label{lem:microsoft} Microsoft. Entity Framework Core. Migrations. Migration extend docid type$ 

Inherited Members

Microsoft. Entity Framework Core. Migrations. Migration. Initial Database

Microsoft. Entity Framework Core. Migrations. Migration. Target Model

Microsoft.EntityFrameworkCore.Migrations.Migration.UpOperations

Microsoft. Entity Framework Core. Migrations. Migration. Down Operations

Microsoft.EntityFrameworkCore.Migrations.Migration.ActiveProvider

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: Searchify.Migrations

Assembly: Searchify.dll

Syntax

[DbContext(typeof(SearchifyContext))]
[Migration("20210824144441\_extend doc id type")]
public class extenddocidtype : Migration

#### Methods

#### BuildTargetModel(ModelBuilder)

Declaration

protected override void BuildTargetModel(ModelBuilder modelBuilder)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Entity Framework Core. Model Builder	modelBuilder	

#### Overrides

Microsoft. Entity Framework Core. Migrations. Migration. Build Target Model (Microsoft. Entity Framework Core. Model Builder)

#### Down(MigrationBuilder)

Declaration

protected override void Down(MigrationBuilder migrationBuilder)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Entity Framework Core. Migrations. Migration Builder	migrationBuilder	

Overrides

Microsoft. Entity Framework Core. Migrations. Migration. Down (Microsoft. Entity Framework Core. Migrations. Migration Builder)

## Up(MigrationBuilder)

Declaration

protected override void Up(MigrationBuilder migrationBuilder)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Entity Framework Core. Migrations. Migration Builder	migrationBuilder	

#### Overrides

Microsoft. Entity Framework Core. Migrations. Migration Supplies the Core and Migration Supplies the Migration Supplies the Core and Migration Supplies the

# Namespace Searchify. Services

Classes

IndexingService

Class that handles the relaying to uploaded documents to indexing service

Ranker

Maintains and calculates document scores for a query

Structs

IndexerDocument

# Struct IndexerDocument

Inherited Members

System.ValueType.Equals(System.Object)

System.ValueType.GetHashCode()

System.ValueType.ToString()

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: Searchify.Services

Assembly: Searchify.dll

Syntax

```
public struct IndexerDocument
```

#### Fields

Ιd

Declaration

```
[JsonProperty("id")]
public uint Id
```

#### Field Value

ТҮРЕ	DESCRIPTION
System.UInt32	

#### Url

Declaration

```
[JsonProperty("url")]
public string Url
```

#### Field Value

ТҮРЕ	DESCRIPTION
System.String	

# Class IndexingService

Class that handles the relaying to uploaded documents to indexing service

Inheritance

System.Object

IndexingService

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: Searchify.Services

Assembly: Searchify.dll

Syntax

public class IndexingService

#### Methods

#### Index(Document)

Static method that relays multiple books to the indexing service

Declaration

public static async Task<bool> Index(Document data)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
Document	data	Document to be indexed

#### Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <system.boolean></system.boolean>	A boolean promise that determines if the relaying of documents was succesfull

#### IndexMany(List<Document>)

Static method that relays multiple books to the indexing service

Declaration

public static async Task<bool> IndexMany(List<Document> data)

**Parameters** 

ТҮРЕ	NAME	DESCRIPTION
System.Collections.Generic.List <document></document>	data	List of documents to be indexed

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <system.boolean></system.boolean>	A boolean promise that determines if the relaying of documents was succesfull

# 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: Searchify.Services

Assembly: Searchify.dll

Syntax

public class Ranker

#### Constructors

#### Ranker(Indexer)

Instantiates a ranker object

Declaration

public Ranker(Indexer indexer)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
Indexer	indexer	an instance of Indexer

#### Methods

#### ClearScores()

Declaration

public void ClearScores()

#### RankedResultsList()

Returns an ordered array of file ids based on scores

Declaration

public uint[] RankedResultsList()

ТҮРЕ	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

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

# Namespace Searchify. Services. Inverted Index

Classes

Indexer

Indexer class builds and maintains internal search index

IndexTerm

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

# 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: Searchify.Services.InvertedIndex

Assembly: Searchify.dll

Syntax

public class Indexer

#### Constructors

#### Indexer(UInt32)

Declaration

public Indexer(uint lastId)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.UInt32	lastId	

#### Fields

#### LastId

Last File ID indexed

Declaration

public uint LastId

## Field Value

ТҮРЕ	DESCRIPTION
System.UInt32	

#### ReverseIndex

Declaration

public Dictionary<string, IndexTerm[]> ReverseIndex

Field Value

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

#### Methods

#### ClearInvertedIndex()

Declaration

public void ClearInvertedIndex()

# GetIndexTermArray(String)

Returns index list associated with word

Declaration

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

#### **Parameters**

ТҮРЕ	NAME	DESCRIPTION
System.String	word	any string

#### Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <indexterm[]></indexterm[]>	Index list of word

## GetLoadedTermList(String)

Declaration

public IndexTerm[] GetLoadedTermList(string term)

#### **Parameters**

ТҮРЕ	NAME	DESCRIPTION
System.String	term	

#### Returns

ТҮРЕ	DESCRIPTION
IndexTerm[]	

# LoadInvertedIndex(String[])

Declaration

public async Task LoadInvertedIndex(string[] queryTerms)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String[]	queryTerms	

ТҮРЕ	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. Memberwise Clone ()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: Searchify.Services.InvertedIndex

Assembly: Searchify.dll

Syntax

public class IndexTerm

#### Constructors

#### IndexTerm(UInt32)

Declaration

public IndexTerm(uint fileDelta)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.UInt32	fileDelta	

#### Fields

#### FileDelta

Declaration

public readonly uint FileDelta

#### Field Value

ТҮРЕ	DESCRIPTION
System.UInt32	

#### **Properties**

#### Frequency

Declaration

public uint Frequency { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.UInt32	

## **Positions**

Declaration

public uint[] Positions { get; }

## Property Value

ТҮРЕ	DESCRIPTION
System.UInt32[]	

# Methods

# AddPositions(UInt32[])

Declaration

public void AddPositions(uint[] positions)

#### **Parameters**

ТҮРЕ	NAME	DESCRIPTION
System.UInt32[]	positions	

# Namespace Searchify. Services. 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: Searchify.Services.Searcher

Assembly: Searchify.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

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

Fields

FileId

FileId of Index Term

Declaration

# public readonly uint FileId

Field Value

ТҮРЕ	DESCRIPTION
System.UInt32	

Р

Index of current iteration of the Index Term list

Declaration

public readonly uint P

Field Value

ТҮРЕ	DESCRIPTION
System.UInt32	

Term

The key of the reverse index

Declaration

public readonly string Term

Field Value

ТҮРЕ	DESCRIPTION
System.String	

#### Methods

CompareTo(Pointer)

Declaration

public int CompareTo(Pointer other)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Pointer	other	

Returns

ТҮРЕ	DESCRIPTION
System.Int32	

# CompareTo(Object)

IComparable implementation

Declaration

# public int CompareTo(object other)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Object	other	object for comparison

## Returns

ТҮРЕ	DESCRIPTION
System.Int32	1 when this.FileId gt other.FileId -1 when this.FileId It other.FileId 0 otherwise

## Exceptions

ТҮРЕ	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: Searchify.Services.Searcher

Assembly: Searchify.dll

Syntax

public class Searcher

#### Constructors

#### Searcher(Indexer)

Instantiates a Searcher object

Declaration

public Searcher(Indexer indexer)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
Indexer	indexer	instance of Indexer

#### Methods

#### ExecuteQuery(String)

Returns a ranked array of file ids associated with a query

Declaration

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

#### **Parameters**

ТҮРЕ	NAME	DESCRIPTION
System.String	query	any nonempty string value

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