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```

Introduction

Welcome to the conceptual and class documentation for Perpetual Intelligence's managed services and frameworks.

- Browse our Nuget packages
- Browse code on GitHub
- Browse working samples



Introducing pi-cli

pi-cli is the cross-platform developer framework for building all your CLI terminals or command-line systems in the .NET ecosystem. The framework makes it easy to build CLIs for your company, product, service, SaaS, or development and testing needs. Enterprises can create CLIs with few flags or advanced complex CLIs with organization commands, grouped commands, subcommands, arguments, and options.

Take your app or service to the command line with Unicode support and build your front-end CLI in any language.

Craftsmanship

We crafted the pi-cli framework to be cross-platform, hosting and deployment agnostic, and fully customizable. We strongly believe .NET provides a rich set of DSL and DDD tools and languages, and pi-cli directly supports the .NET (traditional), .NET core, ASP.NET Core, and NET6+ framework. Thus it is naturally the defacto standard in developing cross-platform CLI systems for your apps, services, and developer tools in the entire .NET ecosystem. It lets enterprises build ground-up CLI terminals or migrate their existing CLI apps and terminals with the modern and scalable micro-services-based architecture.

In short, if what you want to achieve is doable in the .NET ecosystem, it is possible with pi-cli.

Getting Started

Open Source

Our entire source code is on GitHub. It enables community collaboration, troubleshoot issues, and helps get us your feedback on the features and documentation. It also promotes a better understanding of architecture and design.

**See our licensing terms and pricing **.

OS

Our CICD pipeline builds the framework with Github hosted runners for the following OS platform. However, it supports all the additional platforms that .NET supports.



Packaging

The licensed libraries can be accessed via Nuget:

PerpetualIntelligence.Cli v2.4.1-preview.220421591

Build

The GitHub repo contains all the build and release artifacts to build, test and publish the pi-cli source.

Terminal UX

The pi-cli framework does not enforce any specific terminal or console UX experience because this is always custom to the project. However, we provide you with a starting point for your terminal lifetime and UX customization.

CliHostedService

Classes

Classes and Object browser

Learn to Use

With the pi-cli framework, you don't have to be a microservices or distributed systems expert to build a modern and scalable CLI terminal. You build and learn as you go on, and eventually, you become an expert:) similar to an eventually-consistent system. You can quickly build CLIs for simple use cases, a CLI terminal that handles authentication, or a CLI terminal that interacts with a complex distributed system via protected APIs. We believe in an agile development and agile learning. So, pick a learning model that works for you!

I want to create my first modern CLI and learn as I go on

- Please create an account with us at https://www.perpetualintelligence.com
- Pick a pricing plan that works for you. Our community edition is free for educational, research, and non-commercial use. You must have a commercial license to use the service in a non-educational, commercial, or production environment.
- Browse our code samples here, clone the repo
- Set your License Key (a valid license key is required for both community and commercial licenses)
- Build, debug make changes and learn the concepts and you go on
- We cant wait to see the fantastic CLI terminals you build!

I want to understand the concepts first

Continue reading, and we will explain all the concepts. We recommend you get familiar with the common architectural principles first as they enable our framework to be extendible, customizable, and remain scalable.

- Dependency Injection
- Dependency Inversion
- Options Patterns
- Separation of concerns
- Single Responsibility
- Bounded Context

Test License

If you want to evaluate the pi-cli framework quickly, you can use our test license with shared limits.

We recommend creating an account to generate a license for your specific use case. Our community edition is free for educational, research and development, and non-commercial use. You do need a commercial license for a non-educational or production environment.

Note: Our test license feature is under development and will be available soon. See https://github.com/perpetualintelligence/cli/issues/15 for more status.

Issues and feature requests

Please report issue or feature request directly on our official github repo.

References

- Microservices
- .NET application architecture



Concepts

Terminal

Terminals, also known as command lines, consoles, or CLI applications, allow organizations and users to accomplish and automate tasks on a computer without using a graphical user interface. If a CLI app supports user interaction, the UX is the terminal.

Commands

The PerpetualIntelligence.Cli.Commands namespace defines all the code constructs to describe the command and its arguments, extract command from the command string, route to the registered command handler, perform data type and strict type checks, and finally run the command.

CommandString

The PerpetualIntelligence.Cli.Commands.CommandString class is an immutable Unicode textual form representing the command and its arguments or options that a user or an application wants to execute.

Example:

gh issue list

gh issue create --label bug

dotnet build --runtime ubuntu.18.04-x64

CommandDescriptor

The PerpetualIntelligence.Cli.Commands.CommandDescriptor class defines the command identity and its supported arguments that an end-user or an application can use. You can also describe the command behavior, such as whether the command is a root, grouped, or subcommand.

Root Command

A root command is the top CLI command. It can represent your organization, a product, or a service. For instance, Github CLI gh is an example of an organization root command. Microsoft, however, uses dotnet as a root command for the .NET CLI.

Grouped Command

A grouped command provides a context for a set of related sub-commands. For instance, Github CLI gh auth is an example of a grouped command to authenticate gh and git with GitHub.

Sub Command

A subcommand is an individual executable command that performs a specific action. For instance, Github CLI gh auth login is an example of a subcommand that authenticates with GitHub host. dotnet build is a sub-command that builds a project and all of its dependencies.

Note: A command is a subcommand unless you designate it as a root or a grouped command.

Command

The PerpetualIntelligence.Cli.Commands.Command class is a runtime validated representation of an actual command and its argument values passed by a user or an application. It represents a specific action or a set of actions that a user or an application requests the underlying system to perform. It can be a simple action such as invoking a system method or an OS command or representing a complex operation that calls a set of protected APIs over the internal or external network. A command can virtually do anything in the context of your application or service.

ArgumentDescriptor

The PerpetualIntelligence.Cli.Commands.ArgumentDescriptor class defines the command argument identity, data type, and data validation behavior. We also refer to arguments as command options or command flags. An argument Id is always unique within a command. By design it implements the default equality <xref:System.IEquatable`1> using Id property. Thus, two arguments with the same id are equal irrespective of other property values. This is done to improve performance during lookup and avoid multiple arguments with same identifiers.

Argument

The PerpetualIntelligence.Cli.Commands.Argument is a runtime validated representation of an actual command argument, option, or a flag and its value passed by a user or an application.

Integration

The PerpetualIntelligence.Cli.Integration namespace defines all the code constructs to integrate your CLI terminal with the pi-cli framework. It provides a service builder for dependency injection and hosts a service to manage terminal lifetime and customization.

CliHostedService

The PerpetualIntelligence.Cli.Integration.CliHostedService is a hosted service that manages application lifetime, performs licensing checks, and enables terminal UX customization.

Terminal Lifetime

You can override the following terminal lifetime methods in your application context.

Register Host Application Events A sync

Allows the application to register its custom events. The default implementation registers OnStarted, OnStopping, and OnStopped events that application authors can override.

```
protected virtual Task RegisterHostApplicationEventsAsync(IHostApplicationLifetime
hostApplicationLifetime)
{
    hostApplicationLifetime.ApplicationStarted.Register(OnStarted);
    hostApplicationLifetime.ApplicationStopping.Register(OnStopping);
    hostApplicationLifetime.ApplicationStopped.Register(OnStopped);
    return Task.CompletedTask;
}
```

Note: OnStarted, OnStopping, and OnStopped are not triggered if you override RegisterHostApplicationEventsAsync and register your custom events.

OnStarted

Triggered when the pi-cli application host has fully started.

```
protected virtual void OnStarted()
{
    Console.WriteLine("Server started on {0}.", DateTime.UtcNow.ToLocalTime().ToString());
    Console.WriteLine();
}
```

OnStopping

Triggered when the pi-cli application host is starting a graceful shutdown. Shutdown will block until all callbacks registered on this token have completed.

```
protected virtual void OnStopping()
{
    Console.WriteLine("Stopping server...");
}
```

OnStopped

Triggered when the pi-cli application host has completed a graceful shutdown. The application will not exit until all callbacks registered on this token have completed.

```
protected virtual void OnStopped()
{
    ConsoleHelper.WriteLineColor(ConsoleColor.Red, "Server stopped on {0}.",
DateTime.UtcNow.ToLocalTime().ToString());
}
```

Terminal Header

You can override the following method to print the terminal header in your application context.

Print Host Application Header Async

Allows the host application to print the custom header.

Terminal Licensing Information

You can override the following method to print the terminal licensing information in your application context.

Print Host Application Licensing Async

Allows host application to print custom licensing information.

```
protected virtual Task PrintHostApplicationLicensingAsync(PerpetualIntelligence.Cli.Licensing.License
license)
   {
        // Print the license information
       ConsoleHelper.WriteLineColor(ConsoleColor.Cyan, $"consumer={license.Claims.Name}
({license.Claims.TenantId})");
       ConsoleHelper.WriteLineColor(ConsoleColor.Cyan, $"country={license.Claims.TenantCountry}");
       ConsoleHelper.WriteLineColor(ConsoleColor.Cyan, $"subject={cliOptions.Licensing.Subject}");
       ConsoleHelper.WriteLineColor(ConsoleColor.Cyan, $"check={license.CheckMode}");
       ConsoleHelper.WriteLineColor(ConsoleColor.Cyan, $"usage={license.Usage}");
       ConsoleHelper.WriteLineColor(ConsoleColor.Green, $"edition={license.Plan}");
       ConsoleHelper.WriteLineColor(ConsoleColor.Cyan, $"key_source={cliOptions.Licensing.KeySource}");
       if (license.LicenseKeySource == SaaSKeySources.JsonFile)
            // Don't dump the key, just the lic file path
           ConsoleHelper.WriteLineColor(ConsoleColor.Cyan, $"key_file={license.LicenseKey}");
       return Task.CompletedTask;
    }
```

ICliBuilder

You enable the pi-cli framework to any .NET, .NET Core, or .NET6+ console application by adding the relevant services to the dependency injection (DI) system.

Many of the fundamental CLI terminal configuration settings can be set on the options. See the CliOptions for more details. The PerpetualIntelligence.Cli.Extensions.ICliBuilderExtensions provides dependency injection extension methods to register required and optional pi-cli services.



CliOptions

The pi-cli framework uses the options pattern to provide strongly typed access to groups of related settings. When configuration settings are isolated by scenario into separate classes, the host CLI terminal adheres to two crucial software engineering principles:

- Interface Segregation Principle (ISP) or Encapsulation: Scenarios (classes) that depend on configuration settings depend only on the configuration settings that they use.
- Separation of Concerns: Settings for different parts of the app aren't dependent or coupled to one another. Options also provide a mechanism to validate configuration data. For more information, see the Options validation section.

This article provides information on all the supported configuration options by the pi-cli framework.

AuthenticationOptions

CheckerOptions

ExtractorOptions

HostingOptions

HttpOptions

LicensingOptions

LoggingOptions

References

- Options pattern in .NET
- Architectural principles



Hosting

The pi-cli framework is hosting agnostic, meaning no hosting limitations at all. Application authors can host their CLI apps, terminals, or servers on their self-hosting environment, use a managed-hosting environment, or rely on a third party to provide a hosting environment. You can configure your server and provide your self-hosting implementations for stores and host in an environment of your choice, e.g., Windows, Linux, macOS, Docker, Kubernetes, etc.



Deployment

With pi-cli, you build deployment agnostic secured CLI terminals and services, test them in local environments and deploy the production apps and services on-premise, cloud (public, private, or government), or hybrid. You can also automate the deployment of your apps and services as portable, self-sufficient containers that can run on the cloud or on-premises.

Public Client CLI Terminals

Server Deployed CLI Terminals



Pricing Plans

Select a pricing plan that best suits your needs. Go to features for a detailed feature comparison based on a pricing plan.

Community

The community edition is free for educational, research, and non-commercial use.

Note: You must have a commercial license to use the service in a non-educational or production environment.

Micro

The micro edition is a commercial license for solo users or micro-businesses with up to 50 employees.

SMB

The SMB edition is a commercial license for small and medium businesses with up to 500 employees.

Enterprise

The enterprise edition is a commercial license for organizations and large businesses with more than 500 employees.

ISV

The ISV (Independent Software Vendor) is a commercial enterprise license for scale and redistribution. It allows internal self-hosting, SaaS, or hosting on behalf of your customers and redistribution to a customer's on-premise or cloud infrastructure. ISV can redistribute the "pi-cli" framework as part of a standard or custom product.

ISV-U

The ISV-U (Independent Software Vendor) is an unlimited commercial enterprise license for massive scale and redistribution. It allows internal self-hosting, SaaS, or hosting on behalf of your customers and redistribution to a customer's on-premise or cloud infrastructure. ISV can redistribute the "pi-cli" framework as part of a standard or custom product.

Features

Starters Pack

FEATURES	COMMUNITY	SOLO OR MICRO	SMB
Pricing \$ USD	\$ 0	<pre>\$ 19 / Month \$ 199 / Year</pre>	\$ 119 / Month \$ 1209 / Year
Terminals or Console Apps	1	1	3
Redistribution	NO	NO	1000

FEATURES	COMMUNITY	SOLO OR MICRO	SMB
Root commands	1	1	1
Grouped commands	5	5	10
Sub-commands	50	50	100
Arguments, options or flags	500	500	1000
Argument alias	NO	NO	Yes
Default argument and value	NO	NO	Yes
Strict data type	NO	NO	Yes
Unicode	Yes	Yes	Yes
Error handling	standard	standard	standard
Stores	in-memory	in-memory	in-memory in-memory
Routing and extraction	standard	standard	standard
License Check	online	online	online

☐ - Feature planed for future release.

Pro Pack

FEATURES	ENTERPRISE	ISV	ISV-U
Pricing \$ USD	<pre>\$ 219 / Month \$ 2309 / Year</pre>	\$ 619 / Month \$ 6609 / Year	<pre>\$ 1219 / Month \$ 13109 / Year</pre>
Terminals or Console Apps	10	25	UNLIMITED
Redistribution	5000	10000	UNLIMITED
Root commands	3	5	10
Grouped commands	50	100	UNLIMITED
Sub-commands	500	1000	UNLIMITED
Arguments, options or flags	5000	10000	UNLIMITED
Argument alias	Yes	Yes	Yes
Default argument and value	Yes	Yes	Yes

FEATURES	ENTERPRISE	ISV	ISV-U
Strict data type	Yes	Yes	Yes
Unicode	Yes	Yes	Yes
Error handling	standard custom	standard custom	standard custom
Stores	in-memory ☐ json ☐ custom	in-memory ☐ json ☐ custom	in-memory ☐ json ☐ custom
Routing and extraction	standard custom	standard custom	standard custom
License Check	online Offline	online offline byol	online offline byol

 $[\]hfill\Box$ - Feature planed for future release.

Behind the scenes Runtime Why Descriptor By Actual Classes Default Values Argument Alias Routing

Extractors

Handlers

Comparers

Providers

Checkers

Runners

Pubishers

Configurations and Customizations

Options

Regex Patterns

Unicode

Extensions

Integration

Stores

Licensing & Pricing

Errors

Authentication

Support

Pricing





Samples

Learn to use the "pi-cli" framework by exploring our working samples on Github. Just clone the Visual Studio solution, update the configuration options with your license key, and start exploring!

GitHub CLI

Build the command line terminals similar to GitHub Cli. Start by cloning the repository github-style-cli.

.NET CLI

Build the command line terminals similar to .NET Cli. Start by cloning the repository dotnet-style-cli.

Traditional CLI

Build the command line terminal in good old key=value arguments. Start by cloning the repository traditional-keyvalue-cli.



perpetualintelligence/cli

This repository contains the cross-platform "pi-cli" framework. We build the following NuGet packages from this repository.

PerpetualIntelligence.Cli v2.4.1-preview.220421591

We track the issues and tasks here. We make our best effort to respond to issues in a timely fashion. You can read more about our procedures for classifying and resolving issues in our Issues policy topic.

We welcome contributions to help us improve and complete the docs.

This project has adopted the code of conduct defined by the Contributor Covenant to clarify expected behavior in our community. See the Code of Conduct.

Introduction

status in-progress

protocols

release preview

Note: This is a *preview* release. It is also subject to design changes without any advance notice.

This repository contains the cross-platform protocols and standards abstraction for Perpetual Intelligence L.L.C. managed services, frameworks, and tools. We build the following NuGet packages from this repository.

PerpetualIntelligence.Shared v2.4.1-preview.2204201641

PerpetualIntelligence.Test v2.4.1-preview.2204201641

PerpetualIntelligence.Protocols v2.4.1-preview.2204201641

PerpetualIntelligence.Protocols.Defaults v2.4.1-preview.2204201641

We track the issues and tasks here. We make our best effort to respond to issues in a timely fashion. You can read more about our procedures for classifying and resolving issues in our Issues policy topic.

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Featured Samples

Browse our code samples and tutorials on Github.

TUTORIAL	DESCRIPTION	SERVICE
github-style-cli	Learn to build modern CLI terminals similar to Github CLI	pi-cli
dotnet-style-cli	Learn to build modern CLI terminals similar to .NET Core CLI	pi-cli
keyvalue-cli	Learn to build CLI terminals with good old traditional commands and key=value arguments.	pi-cli

Namespace PerpetualIntelligence.Cli

Classes

Errors

The errors for the Perpetual Intelligence's pi-cli framework.

Terminal

Terminals, also known as command lines, consoles, or CLI applications, allow organizations and users to accomplish and automate tasks on a computer without using a graphical user interface. If a CLI terminal supports user interaction, the UX is the terminal.

Class Errors

The errors for the Perpetual Intelligence's pi-cli framework.

Inheritance

System.Object

Errors

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: PerpetualIntelligence.Cli

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public static class Errors

Fields

DuplicateArgument

The argument is not already added to the command.

Declaration

public const string DuplicateArgument = "duplicate_argument"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

InvalidArgument

The argument is not valid.

Declaration

public const string InvalidArgument = "invalid_argument"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

InvalidCommand

The command is not valid.

Declaration

public const string InvalidCommand = "invalid_command"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Invalid Configuration

The configuration is not valid.

Declaration

public const string InvalidConfiguration = "invalid_configuration"

Field Value

ТУРЕ	DESCRIPTION
System.String	

InvalidLicense

The license is not valid.

Declaration

public const string InvalidLicense = "invalid_license"

Field Value

ТҮРЕ	DESCRIPTION	
System.String		

Invalid Request

The request is not valid.

Declaration

public const string InvalidRequest = "invalid_request"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

MissingArgument

The argument is missing.

Declaration

public const string MissingArgument = "missing_argument"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Missing Claim

The claim is missing.

Declaration

public const string MissingClaim = "missing_claim"

Field Value

ТУРЕ	DESCRIPTION
System.String	

Request Canceled

The request is canceled.

Declaration

public const string RequestCanceled = "request_canceled"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

ServerError

The server error.

Declaration

public const string ServerError = "server_error"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

UnauthorizedAccess

The access is not authorized.

Declaration

public const string UnauthorizedAccess = "unauthorized_access"

Field Value

ТУРЕ	DESCRIPTION
System.String	

Unsupported Argument

The argument is not supported.

Declaration

Field Value

ТҮРЕ	DESCRIPTION
System.String	

${\bf Unsupported Command}$

The command is not supported.

Declaration

public const string UnsupportedCommand = "unsupported_command"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Class Terminal

Terminals, also known as command lines, consoles, or CLI applications, allow organizations and users to accomplish and automate tasks on a computer without using a graphical user interface. If a CLI terminal supports user interaction, the UX is the terminal.

Inheritance

System.Object

Terminal

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: PerpetualIntelligence.Cli Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class Terminal

Properties

AuthorizedApplicationId

The authorized application id for this terminal.

Declaration

[JsonPropertyName("authorized_application_id")]
public string AuthorizedApplicationId { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Namespace PerpetualIntelligence.Cli.Authentication

Classes

Authentication Delegate Handler

Submits an authentication request asynchronously.

${\sf ClientCrossPlatformNoTokenCache}$

The IClientCrossPlatformTokenCache that represents no caching.

MsalInteractiveAuthenticationProvider

The MSAL authentication provider.

Msal Public Client Application Factory

The IMsalPublicClientApplicationFactory to create Microsoft.Identity.Client.IPublicClientApplication.

Msal Public Client Application Factory Context

The IMsalPublicClientApplicationFactory context.

Msal Public Client Application Factory Result

The IMsalPublicClientApplicationFactory result.

Interfaces

IClientCrossPlatformTokenCache

An abstraction of a client's cross platform token cache. Client applications (desktop and mobile apps) should try to get a token from the cache before acquiring a token by another method.

IMs al Public Client Application Factory

 $An \ abstraction \ to \ create \ Microsoft. Identity. Client. IClient Application Base.$

Class Authentication Delegate Handler

Submits an authentication request asynchronously.

Inheritance

System.Object

System.Net.Http.HttpMessageHandler

System.Net.Http.DelegatingHandler

AuthenticationDelegateHandler

Implements

System.IDisposable

Inherited Members

System.Net.Http.DelegatingHandler.Dispose(System.Boolean)

System.Net.Http.DelegatingHandler.InnerHandler

System.Net.Http.HttpMessageHandler.Dispose()

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: PerpetualIntelligence.Cli.Authentication

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class AuthenticationDelegateHandler : DelegatingHandler, IDisposable

Constructors

Authentication Delegate Handler (IAuthentication Provider)

Initializes a new instance.

Declaration

public AuthenticationDelegateHandler(IAuthenticationProvider authenticationProvider)

Parameters

ТУРЕ	NAME	DESCRIPTION
Microsoft.Graph.IAuthenticationProvider	authenticationProvider	

Methods

SendAsync(HttpRequestMessage, CancellationToken)

Sends a request asynchronously.

Declaration

protected override async Task<HttpResponseMessage> SendAsync(HttpRequestMessage request, CancellationToken
cancellationToken)

ТҮРЕ	NAME	DESCRIPTION
System.Net.Http.HttpRequestMessage	request	
System. Threading. Cancellation Token	cancellationToken	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < HttpResponse Message >	

Overrides

System. Net. Http. Delegating Handler. Send Async (System. Net. Http. Http.

Implements

System. ID is posable

Class ClientCrossPlatformNoTokenCache

The IClientCrossPlatformTokenCache that represents no caching.

Inheritance

System.Object

 ${\sf ClientCrossPlatformNoTokenCache}$

Implements

IClientCrossPlatformTokenCache

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: PerpetualIntelligence.Cli.Authentication

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class ClientCrossPlatformNoTokenCache : IClientCrossPlatformTokenCache

Methods

Register Cache A sync (IC lient Application Base)

This method does nothing and it is provided for infrastructure consistency.

Declaration

 $\verb"public Task Register Cache Async (IClient Application Base client Application Base)"$

Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft.Identity.Client.IClientApplicationBase	clientApplicationBase	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

Implements

IClientCrossPlatformTokenCache

Interface IClientCrossPlatformTokenCache

An abstraction of a client's cross platform token cache. Client applications (desktop and mobile apps) should try to get a token from the cache before acquiring a token by another method.

Name space: Perpetual Intelligence. Cli. Authentication

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface IClientCrossPlatformTokenCache

Methods

RegisterCacheAsync(IClientApplicationBase)

Registers the cache with the client application.

Declaration

Task RegisterCacheAsync(IClientApplicationBase clientApplicationBase)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft.Identity.Client.IClientApplicationBase	clientApplicationBase	The client application.

Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task	

See Also

Microsoft.Identity.Client.Extensions.Msal.MsalCacheHelper

https://docs.microsoft.com/en-us/azure/active-directory/develop/msal-net-token-cache-serialization?tabs=desktop https://github.com/AzureAD/microsoft-authentication-extensions-for-dotnet/wiki/Cross-platform-Token-Cache https://github.com/AzureAD/microsoft-authentication-extensions-for-dotnet/blob/master/sample/ManualTestApp/Program.cs

Interface IMsalPublicClientApplicationFactory

 $An abstraction \ to \ create \ Microsoft. Identity. Client. IClient Application Base.$

Name space: Perpetual Intelligence. Cli. Authentication

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface IMsalPublicClientApplicationFactory

Methods

Create A sync (Msal Public Client Application Factory Context)

Creates an instance of Microsoft.Identity.Client.IClientApplicationBase asynchronously.

Declaration

Task<MsalPublicClientApplicationFactoryResult> CreateAsync(MsalPublicClientApplicationFactoryContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
MsalPublicClientApplicationFactoryContext	context	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Msal Public Client Application Factory Result >	An instance of Microsoft.Identity.Client.IClientApplicationBase.

Class MsalInteractiveAuthenticationProvider

The MSAL authentication provider.

Inheritance

System.Object

Ms al Interactive Authentication Provider

Implements

Microsoft.Graph.IAuthenticationProvider

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: PerpetualIntelligence.Cli.Authentication

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class MsalInteractiveAuthenticationProvider : IAuthenticationProvider

Constructors

 $MsalInteractive Authentication Provider (IMsalPublic Client Application Factory,\ CliOptions)$

Initializes a new instance.

Declaration

public MsalInteractiveAuthenticationProvider(IMsalPublicClientApplicationFactory clientApplicationFactory, CliOptions cliOptions)

Parameters

ТУРЕ	NAME	DESCRIPTION
IMsalPublicClientApplicationFactory	clientApplicationFactory	
CliOptions	diOptions	

Methods

AuthenticateRequestAsync(HttpRequestMessage)

Authenticates the request.

Declaration

public async Task AuthenticateRequestAsync(HttpRequestMessage request)

ТҮРЕ	NAME	DESCRIPTION

ТУРЕ	NAME	DESCRIPTION	
System.Net.Http.HttpRequestMessage	request	The request to authenticate.	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

${\sf GetTokenAsync()}$

Gets an access_token to run a protected command.

Declaration

public async Task<string> GetTokenAsync()

Returns

ТУРЕ	DESCRIPTION
System.Threading.Tasks.Task < System.String >	

Implements

 ${\it Microsoft.} Graph. I Authentication Provider$

Class MsalPublicClientApplicationFactory

The IMsalPublicClientApplicationFactory to create Microsoft.Identity.Client.IPublicClientApplication.

Inheritance

System.Object

Msal Public Client Application Factory

Implements

IMsalPublicClientApplicationFactory

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: PerpetualIntelligence.Cli.Authentication

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class MsalPublicClientApplicationFactory : IMsalPublicClientApplicationFactory

Constructors

Msal Public Client Application Factory (IClient Cross Platform Token Cache)

Initialize a new instance.

Declaration

 $\verb|public MsalPublicClientApplicationFactory(IClientCrossPlatformTokenCache clientCrossPlatformTokenCache)| \\$

Parameters

ТҮРЕ	NAME	DESCRIPTION
IClientCrossPlatformTokenCache	client Cross Platform Token Cache	

Methods

CreateAsync(MsalPublicClientApplicationFactoryContext)

Create a new Microsoft.Identity.Client.IPublicClientApplication for authentication.

Declaration

public Task<MsalPublicClientApplicationFactoryResult> CreateAsync(MsalPublicClientApplicationFactoryContext
context)

ТҮРЕ	NAME	DESCRIPTION
MsalPublicClientApplicationFactoryContext	context	The authentication factory context.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Msal Public Client Application Factory Result >	

Exceptions

ТҮРЕ	CONDITION
System.NotImplementedException	

Implements

IMs al Public Client Application Factory

Class MsalPublicClientApplicationFactoryContext

The IMsalPublicClientApplicationFactory context.

Inheritance

System.Object

Msal Public Client Application Factory Context

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: Perpetual Intelligence. Cli. Authentication

Assembly: PerpetualIntelligence.Cli.dll

Syntax

 $\verb"public class MsalPublicClientApplicationFactoryContext"$

Constructors

Msal Public Client Application Factory Context (Authentication Options)

Initialize a new instance.

Declaration

 $\verb|public MsalPublicClientApplicationFactoryContext(AuthenticationOptions authenticationOptions)|\\$

Parameters

ТУРЕ	NAME	DESCRIPTION
AuthenticationOptions	authenticationOptions	The authentication options.

Properties

AuthenticationOptions

The authentication options.

Declaration

public AuthenticationOptions AuthenticationOptions { get; }

Property Value

ТҮРЕ	DESCRIPTION
AuthenticationOptions	

Class MsalPublicClientApplicationFactoryResult

The IMsalPublicClientApplicationFactory result.

Inheritance

System.Object

Msal Public Client Application Factory Result

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: Perpetual Intelligence. Cli. Authentication

Assembly: PerpetualIntelligence.Cli.dll

Syntax

 $\verb"public class MsalPublicClientApplicationFactoryResult"$

Constructors

Msal Public Client Application Factory Result (IC lient Application Base)

Initialize a new instance.

Declaration

 $public \ Msal Public Client Application Factory Result (IC lient Application Base \ application)$

Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft.Identity.Client.IClientApplicationBase	application	

Properties

Application

The client application.

Declaration

public IClientApplicationBase Application { get; }

Property Value

ТҮРЕ	DESCRIPTION
Microsoft.Identity.Client.IClientApplicationBase	

Methods

As<TApp>()

Casts the Application to the specified Microsoft.Identity.Client.IClientApplicationBase type.

Declaration

public TApp As<TApp>()
 where TApp : IClientApplicationBase

Returns

ТУРЕ	DESCRIPTION
ТАрр	

Type Parameters

NAME	DESCRIPTION
ТАрр	The client application type.

Namespace PerpetualIntelligence.Cli.Commands

Classes

Argument

The Argument class is a runtime validated representation of an actual command argument and its value passed by a user or an application.

ArgumentDescriptor

The ArgumentDescriptor class defines the command argument identity, data type, and data validation behavior. We also refer to arguments as command options or command flags.

ArgumentDescriptors

The ordered ArgumentDescriptor collection.

Arguments

The ordered Argument keyed collection.

ArgumentString

An immutable argument string extracted from the CommandString.

ArgumentStrings

The ordered ArgumentString collection.

Command

An immutable pi-cli command. A command is a specific action or a set of actions that a user or an application requests the underlying system to perform. It can be a simple action such as invoking a system method or an OS command or representing a complex operation that calls a set of protected APIs over the internal or external network. A command can virtually do anything in the context of your application or service.

CommandDescriptor

The CommandDescriptor defines the command identity and its supported arguments that an end-user or an application can use. You can also describe the command behavior, such as whether the command is a root, grouped, or subcommand.

CommandString

An immutable unicode textual form representing the command and its arguments or options that a user or an application wants to execute.

Class Argument

The Argument class is a runtime validated representation of an actual command argument and its value passed by a user or an application.

Inheritance

System.Object

Argument

Implements

System.IEquatable < Argument >

Inherited Members

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

Name space: Perpetual Intelligence. Cli. Commands

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public sealed class Argument : IEquatable<Argument>

Remarks

An argument id is always unique within a command. By design Argument implements the default equality System. IEquatable <T> and GetHashCode() using Id property. Thus, two arguments with the same id are equal irrespective of other property values. This is done to improve performance during lookup and avoid multiple arguments with same identifiers.

The arguments can have same ids across multiple commands. Each Command has ArgumentDescriptors collection that contains arguments with unique ids.

Constructors

Argument(ArgumentDescriptor, Object)

Initialize a new instance..

Declaration

public Argument(ArgumentDescriptor argumentDescriptor, object value)

Parameters

ТУРЕ	NAME	DESCRIPTION
ArgumentDescriptor	argument Descriptor	The argument descriptor.
System.Object	value	The argument value.

Argument(String, Object, DataType)

Initialize a new instance..

Declaration

public Argument(string id, object value, DataType dataType)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	The argument id.
System.Object	value	The argument value.
System. Component Model. Data Annotations. Data Type	dataType	The argument data type.

Argument(String, Object, String)

Initialize a new instance..

Declaration

public Argument(string id, object value, string customDataType)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	The argument id.
System.Object	value	The argument value.
System.String	customDataType	The argument custom data type.

Properties

Alias

The argument alias.

Declaration

public string Alias { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

${\sf CustomDataType}$

The argument custom data type.

Declaration

```
[JsonPropertyName("custom_data_type")]
[JsonIgnore(Condition = JsonIgnoreCondition.WhenWritingNull)]
public string CustomDataType { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Remarks

This custom data type is used only if the DataType property is set to System.ComponentModel.DataAnnotations.DataType.Custom.

DataType

The argument data type. Defaults to System.ComponentModel.DataAnnotations.DataType.Text.

Declaration

```
[JsonPropertyName("data_type")]
public DataType DataType { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.ComponentModel.DataAnnotations.DataType	

Description

The argument description.

Declaration

```
[JsonPropertyName("description")]
public string Description { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Id

The argument id.

Declaration

```
[JsonPropertyName("id")]
public string Id { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

The argument id is unique with in a command.

Properties

The argument custom properties.

Declaration

```
[JsonPropertyName("properties")]
[JsonIgnore(Condition = JsonIgnoreCondition.WhenWritingNull)]
public Dictionary<string, object> Properties { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Collections.Generic.Dictionary < System.String, System.Object >	

Value

The argument value.

Declaration

```
[JsonPropertyName("value")]
public object Value { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Object	

Methods

Equals(Argument)

Declaration

public bool Equals(Argument other)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Argument	other	

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

Equals(Object)

Declaration

public override bool Equals(object obj)

ТҮРЕ	NAME	DESCRIPTION
System.Object	obj	

Returns

ТУРЕ	DESCRIPTION
System.Boolean	

Overrides

System.Object.Equals(System.Object)

GetHashCode()

Declaration

public override int GetHashCode()

Returns

ТУРЕ	DESCRIPTION
System.Int32	

Overrides

System.Object.GetHashCode()

Operators

Equality(Argument, Argument)

Declaration

public static bool operator ==(Argument left, Argument right)

Parameters

ТУРЕ	NAME	DESCRIPTION
Argument	left	
Argument	right	

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

Inequality(Argument, Argument)

Declaration

public static bool operator !=(Argument left, Argument right)

ТҮРЕ	NAME	DESCRIPTION
Argument	left	
Argument	right	

Returns

ТУРЕ	DESCRIPTION
System.Boolean	

Implements

System.IEquatable<T>

See Also

Command

Class ArgumentDescriptor

The ArgumentDescriptor class defines the command argument identity, data type, and data validation behavior. We also refer to arguments as command options or command flags.

Inheritance

System.Object

ArgumentDescriptor

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: Perpetual Intelligence. Cli. Commands

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public sealed class ArgumentDescriptor

Constructors

ArgumentDescriptor(String, DataType, Boolean, String, ValidationAttribute[], Object)

Initializes a new instance.

Declaration

public ArgumentDescriptor(string id, DataType dataType, bool required = false, string description = null, ValidationAttribute[] validationAttributes = null, object defaultValue = null)

ТУРЕ	NAME	DESCRIPTION
System.String	id	The argument id.
System.ComponentModel.DataAnnotations.DataType	dataType	The argument data type.
System.Boolean	required	The argument is required.
System.String	description	The argument description.
System.ComponentModel.DataAnnotations.ValidationAttribute[]	validationAttributes	The data validation attributes.
System.Object	defaultValue	The argument default value.

ArgumentDescriptor(String, String, Boolean, String, ValidationAttribute[], Object)

Initializes a new instance.

Declaration

public ArgumentDescriptor(string id, string customDataType, bool required = false, string description = null, ValidationAttribute[] validationAttributes = null, object defaultValue = null)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	The argument id.
System.String	customDataType	The argument custom data type.
System.Boolean	required	The argument is required.
System.String	description	The argument description.
System.ComponentModel.DataAnnotations.ValidationAttribute[]	validation Attributes	The data validation attributes.
System.Object	defaultValue	The argument default value.

Properties

Alias

The argument alias.

Declaration

public string Alias { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

Remarks

The argument alias is unique within a command. Argument alias supports the legacy apps that identified a command argument with an id and an alias string. For modern console apps, we recommend using just an argument identifier. The core data model is optimized to work with argument id. In general, an app should not identify the same argument with multiple strings. Using alias will degrade the performance.

CustomDataType

The argument custom data type.

Declaration

|--|

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Remarks

This custom data type is used only if the DataType property is set to System.ComponentModel.DataAnnotations.DataType.Custom.

DataType

The argument data type.

Declaration

```
public DataType DataType { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System. Component Model. Data Annotations. Data Type	

DefaultValue

The default argument value. null means the argument does not support a default value.

Declaration

```
public object DefaultValue { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Object	

Remarks

If DefaultValue is set to a non null value, then the argument will have DefaultValue, if a user or an app does not specify any value.

Description

The argument description.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Remarks

The argument id is unique across all commands.

Disabled

Determines whether the argument is disabled

Declaration

```
public bool? Disabled { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Nullable < System.Boolean >	

Ιd

The argument id.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Remarks

The argument id is unique within a command.

IsRequired

Determines is the argument is required.

Declaration

```
public bool IsRequired { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

Obsolete

Determines whether the argument is obsolete.

Declaration

```
public bool? Obsolete { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Nullable < System.Boolean >	

Properties

The custom properties.

Declaration

public Dictionary<string, object> Properties { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Collections.Generic.Dictionary < System.String, System.Object >	

Validation Attributes

The data annotation validation attributes to check the argument value.

Declaration

public IEnumerable<ValidationAttribute> ValidationAttributes { get; set; }

Property Value

ТҮРЕ	DESCRIPTION	
System. Collections. Generic. IE numerable < System. Component Model. Data Annotations. Validation Attribute > 0.0000000000000000000000000000000000		

See Also

Argument

 ${\sf CommandString}$

 ${\sf CommandDescriptor}$

Class ArgumentDescriptors

The ordered ArgumentDescriptor collection.

Inheritance

System.Object

System.Collections.ObjectModel.Collection < ArgumentDescriptor >

System.Collections.ObjectModel.KeyedCollection < System.String, ArgumentDescriptor >

Implements

System.Collections.Generic.IList<ArgumentDescriptor>

System.Collections.Generic.ICollection < ArgumentDescriptor >

System.Collections.Generic.IReadOnlyList<ArgumentDescriptor>

System.Collections.Generic.IReadOnlyCollection<ArgumentDescriptor>

System.Collections.Generic.IEnumerable < ArgumentDescriptor >

System.Collections.IList

System.Collections.ICollection

System.Collections.IEnumerable

Inherited Members

System.Collections.ObjectModel.KeyedCollection < System.String, PerpetualIntelligence.Cli.Commands.ArgumentDescriptor > .ChangeItemKey(PerpetualIntelligence.Cli.Commands.ArgumentDescriptor,

System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Clear Items () and the properties of th

System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Contains (System. String)

System.Collections.ObjectModel.KeyedCollection<System.String, PerpetualIntelligence.Cli.Commands.ArgumentDescriptor>.GetKeyForItem(PerpetualIntelligence.Cli.Commands.ArgumentDescriptor)

System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands Argument Descriptor > . InsertItem (System. Int 32, Perpetual Intelligence. Cli. Commands Argument Descriptor) https://doi.org/10.1016/journal.org/ https://doi.org//doi.org///doi.org//doi.org//doi.org//doi.org///doi.org//doi.org//doi.org//doi.org//doi.org//d

System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Remove (System. String) + (Sys

System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Remove Item (System. Int 32) and the property of the pr

System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands. Argument Descriptor > Settlem (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor)
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System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Comparer Commands and Commands argument Descriptor > . Comparer Commands argument Descriptor > . Comma

System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands. Argument Descriptor >. Dictionary Collection + Col

System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Item [System. String] = (System. String) = (Syste

 $System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . System. Collections. IL ist. get_ltem (System. Int 32) and the system of the system of the system. Collection is the system of the system of the system. The system of the system of the system of the system. The system of the system of the system of the system of the system. The system of the system. The system of the syst$

 $System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . System. Collections. I List. set_item (System. Int 32, System. Object) and the system. Collection is a system$

System.Collections.ObjectModel.Collection < PerpetualIntelligence.Cli.Commands.ArgumentDescriptor > Add(PerpetualIntelligence.Cli.Commands.ArgumentDescriptor)

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Clear() and the properties of the control o

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Clear I tems()

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > Contains (Perpetual Intelligence. Cli. Commands. Argument Descriptor) < Contains (Perpetual Intelligence. Cli. Commands. Argument Descr

System.Collections.ObjectModel.Collection<PerpetualIntelligence.Cli.Commands.ArgumentDescriptor>.CopyTo(PerpetualIntelligence.Cli.Commands.ArgumentDescriptor], System.Int32)

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Get Enumerator ()

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) >

System.Collections.ObjectModel.Collection < PerpetualIntelligence.Cli.Commands.ArgumentDescriptor > . InsertItem (System.Int32, PerpetualIntelligence.Cli.Commands.ArgumentDescriptor)

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Remove (Perpetual Intelligence. Cli. Commands. Argument Descriptor) < (Perpetual Intelligence. Cli. Cli. C

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Remove At (System. Int 32) and the contract of the contract o

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Remove Item (System. Int 32) and the contract of the contract

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument Descriptor) > . Set Item (System. Int 32, Perpetual Intelli

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . System. Collections. I Collection. CopyTo (System. Array, System. Int 32) and the system of the sys

System.Collections.ObjectModel.Collection < PerpetualIntelligence.Cli.Commands.ArgumentDescriptor > .System.Collections.IEnumerable.GetEnumerator()

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . System. Collections. IL ist. Add (System. Object) and the system of the system. Collection is the system of the system of the system of the system. Collection is the system of the sys

System.Collections.ObjectModel.Collection < PerpetualIntelligence.Cli.Commands.ArgumentDescriptor > .System.Collections.IList.Contains(System.Object)

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . System. Collections. I List. Index Of (System. Object) and the contraction of the contract

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . System. Collections. I List. Insert (System. Int 32, System. Object) | System. Collections | System. Collec

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . System. Collections. I List. Remove (System. Object) and the contraction of the contractio

System.Collections.ObjectModel.Collection < PerpetualIntelligence.Cli.Commands.ArgumentDescriptor > .Count

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Items and the content of the

System.Collections.ObjectModel.Collection < PerpetualIntelligence.Cli.Commands.ArgumentDescriptor > . System.Collections.Generic.ICollection < PerpetualIntelligence.Cli.Commands.ArgumentDescriptor > . IsReac

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . System. Collections. I Colle

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . System. Collections. I Collections. SyncRoot and Collections are also as a few properties of the Collection of the

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . System. Collections. IList. Is Fixed Size and Property of the Collection of theSystem.Collections,ObjectModel.Collection < PerpetualIntelligence.Cli.Commands.ArgumentDescriptor > .System.Collections.IList.IsReadOnly

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument Descriptor > . System. Collections. I List. I tem [System. Int 32] and the collection is the content of the collection of the coll

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()

lamespace: PerpetualIntelligence.Cli.Commands

Assembly: PerpetualIntelligence.Cli.dll

public sealed class ArgumentDescriptors : KeyedCollection<string, ArgumentDescriptor>, IList<ArgumentDescriptor>, ICollection<ArgumentDescriptor>, IReadOnlyList<ArgumentDescriptor>, IList, ICollection, IEnumerable

The argument descriptor collection comparer is System. StringComparer. Ordinal and it determines whether two ld strings are equal. Every argument descriptor in the collection must have unique id.

Constructors

ArgumentDescriptors(IStringComparer)

Initializes a new instance

Declaration

public ArgumentDescriptors(IStringComparer stringComparer)

Parameters

ТУРЕ	NAME	DESCRIPTION
IStringComparer	stringComparer	

$Argument Descriptors (IString Comparer,\ IEnumerable < Argument Descriptor >)$

Initializes a new instance with the specified argument descriptors.

Declaration

public ArgumentDescriptors(IStringComparer stringComparer, IEnumerable<ArgumentDescriptor> collection)

Parameters

ТҮРЕ	NAME	DESCRIPTION
IStringComparer	stringComparer	The string comparer.
System.Collections.Generic.IEnumerable <argumentdescriptor></argumentdescriptor>	collection	The argument descriptors.

Properties

Item[Int32]

Gets or sets an ArgumentDescriptor instance at the specified index.

Declaration

public ArgumentDescriptor this[int index] { get; set; }

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	index	The zero based index.

Property Value

TYPE		DESCRIPTION
Argumen	tDescriptor	

Item[String]

Gets an ArgumentDescriptor instance with the specified id.

Declaration

public ArgumentDescriptor this[string id] { get; }

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	The argument id.

Property Value

ТҮРЕ	DESCRIPTION
ArgumentDescriptor	ArgumentDescriptor instance if found.

Exceptions

ТҮРЕ	CONDITION
ErrorException	If ArgumentDescriptor instance with specified id is not found.

Item[String, Nullable < Boolean >, Nullable < Boolean >]

Gets an ArgumentDescriptor instance with the specified id.

Declaration

public ArgumentDescriptor this[string idOrAlias, bool? alias = null, bool? ifNotThen = null] { get; }

ТҮРЕ	NAME	DESCRIPTION
System.String idOrAlias		The argument id or its alias.

	ТҮРЕ	NAME	DESCRIPTION
	System.Nullable < System.Boolean >	alias	true to find the argument by its alias, False to find by its identifier.
System.Nullable <system.boolean> ifNotThen true to find the argument by its id. If not found, then attempt to find it by</system.boolean>		ifNotThen	true to find the argument by its id. If not found, then attempt to find it by its alias. false to find by id or alias but not both.

Property Value

ТҮРЕ	DESCRIPTION
ArgumentDescriptor	ArgumentDescriptor instance if found.

Remarks

We recommend to use [tem[String]] to get an argument. Using alias will degrade the application's performance.

Exceptions

TYPE	CONDITION
ErrorException	If ArgumentDescriptor instance with specified id is not found.

${\sf StringComparer}$

The string comparer.

Declaration

public IStringComparer StringComparer { get; }

Property Value

ТУРЕ	DESCRIPTION
IStringComparer	

Methods

${\sf GetKeyForItem}({\sf ArgumentDescriptor})$

Declaration

protected override string GetKeyForItem(ArgumentDescriptor item)

Parameters

ТУРЕ	NAME	DESCRIPTION
ArgumentDescriptor	item	

Returns

ТҮРЕ	DESCRIPTION
System.String	

Overrides

System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands. Argument Descriptor > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument Descriptor)

Implements

System.Collections.Generic.IList<T>

System.Collections.Generic.ICollection<T>

System. Collections. Generic. IR ead Only List < T >

System. Collections. Generic. IR ead Only Collection < T >

System. Collections. Generic. I Enumerable < T >

System.Collections.IList

System.Collections.ICollection

System.Collections.IEnumerable

Extension Methods

 $\label{lem:lemmable} I Enumerable Extensions. Has Duplicates < T, TProp>(IEnumerable < T>, Func < T, TProp>) \\ I Enumerable Extensions. Is Null Or Empty < T> (IEnumerable < T>) \\$

Class Arguments

The ordered Argument keyed collection.

Inheritance

System.Object

System.Collections.ObjectModel.Collection < Argument >

 $System. Collections. Object Model. Keyed Collection < System. String, {\color{red} Argument} > {\color{gray}}$

Arguments

Implements

System.Collections.Generic.IList<Argument>

System.Collections.Generic.ICollection < Argument >

System.Collections.Generic.IReadOnlyList<Argument>

System.Collections.Generic.IReadOnlyCollection<Argument>

System.Collections.Generic.IEnumerable < Argument >

System.Collections.IList

System.Collections.ICollection

System.Collections.IEnumerable

Inherited Members

System.Collections.ObjectModel.KeyedCollection < System.String, PerpetualIntelligence.Cli.Commands.Argument > .ChangeltemKey(PerpetualIntelligence.Cli.Commands.Argument, System.String)

System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands. Argument > . Clear Items () and the contract of the contract of

System.Collections.ObjectModel.KeyedCollection<System.String, PerpetualIntelligence.Cli.Commands.Argument>.Contains(System.String)

System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands. Argument > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument) > . Get Key Forltem (Perpetual Intel

System.Collections.ObjectModel.KeyedCollection < System.String, PerpetualIntelligence.Cli.Commands.Argument > .InsertItem(System.Int32, PerpetualIntelligence.Cli.Commands.Argument)

System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands. Argument > .Remove (System. String) + ... + .

System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands Argument > . Remove Item (System. Int 32) and the string of the string of

System.Collections.ObjectModel.KeyedCollection < System.String, PerpetualIntelligence.Cli.Commands.Argument>.SetItem(System.Int32, PerpetualIntelligence.Cli.Commands.Argument)

System.Collections.ObjectModel.KeyedCollection < System.String, PerpetualIntelligence.Cli.Commands.Argument > .Comparer

System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands. Argument >. Dictionary Collections of Collections and Collections of Collec

 $System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . System. Collections. I List.get_ltem (System. Int 32) and the system of the contraction of the contra$

 $System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument >. System. Collections. IList. set_ltem (System. Int 32, System. Object) | Collections of the collection of the$

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Add (Perpetual Intelligence. Cli. Commands. Argument)

System.Collections.ObjectModel.Collection < PerpetualIntelligence.Cli.Commands.Argument > .Clear()

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Clear Items ()

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Contains (Perpetual Intelligence. Cli. Commands. Argument) > . Contains (Perpetual Intelligence. Cli. Commands. Argum

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . CopyTo (Perpetual Intelligence. Cli. Commands. Argument [], System. Int 3.2) and the sum of the

System.Collections.ObjectModel.Collection < PerpetualIntelligence.Cli.Commands.Argument > .GetEnumerator()

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Index Of (Perpetual Intelligence. Cli. Commands. Argument) > . Index Of (Perpetual Intelligence. Cli. Commands. Argum

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) > . Insert (System. Intelligence. Cli. Commands. Argument) > . Insert (S

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Insert Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument)

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Remove (Perpetual Intelligence. Cli. Commands. Argument) > . Remove (Perpetual Intelligence. Cli. Cli. Cli. Cli. C

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Remove At (System. Int 32) and the contract of the contr

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Remove Item (System. Int 32)

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Set Item (System. Int 32, Perpetual Intelligence. Cli. Commands. Argument) | Perpetual Intelligence. Cli. Commands. Argument | Perpetual Intelligence. Argument | Perpetual Intelligence. Argument | Perpetual Intelligence. Argument | Perpetual In

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument >. System. Collections. I Collection. Copy To (System. Array, System. Int 32) and the contraction of the

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . System. Collections. I Enumerable. Get Enumerator ()

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . System. Collections. I List. Contains (System. Object) | Collections | Collections

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . System. Collections. I List. Index Of (System. Object) | Commands and Collections | Collections

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . System. Collections. IList. Remove (System. Object) and the properties of the properties o

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Count to the content of the content of

System.Collections.ObjectModel.Collection < PerpetualIntelligence.Cli.Commands.Argument > .ltem[System.Int32]

System.Collections.ObjectModel.Collection < PerpetualIntelligence.Cli.Commands.Argument > .Items

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . System. Collections. Generic. ICollection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Commands. Argument > . Is Read Only and System. Collection < Perpetual Intelligence. Cli. Collection < Perpetual System. Collection < Perpetual Intelligence. Cli

System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . System. Collections. I Collection. I Synchronized Collections and Collec

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System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . System. Collections. List. Is Fixed Size System. Collections. Object Model. Collection < Perpetual Intelligence. Cli. Commands. Argument > . System. Collections. List. Is Read Only System. Collections. Cli. Commands. Argument > . System. Collections. Cli. Commands. Cli. Collections. Cli. Collections. Cli. Collections. Cli. Collections. Cli. Collections. Cli. Collections. Cl

System.Collections.ObjectModel.Collection < PerpetualIntelligence.Cli.Commands.Argument > .System.Collections.IList.Item[System.Int32]

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: PerpetualIntelligence.Cli.Commands

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public sealed class Arguments: KeyedCollection<string, Argument>, IList<Argument>, ICollection<Argument>, IReadOnlyList<Argument>, IReadOnlyCollection<Argument>, IEnumerable<Argument>, IList, ICollection, IEnumerable

The argument collection comparer is System. String Comparer. Ordinal and it determines whether two Id strings are equal. Every argument in the collection must have unique id.

Constructors

Arguments(IStringComparer)

Initializes a new instance.

Declaration

public Arguments(IStringComparer stringComparer)

Parameters

ТҮРЕ	NAME	DESCRIPTION
IStringComparer	stringComparer	

Properties

StringComparer

The string comparer.

Declaration

public IStringComparer StringComparer { get; }

Property Value

ТУРЕ	DESCRIPTION
IStringComparer	

Methods

GetKeyForItem(Argument)

Declaration

protected override string GetKeyForItem(Argument item)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Argument	item	

Returns

ТҮРЕ	DESCRIPTION
System.String	

Overrides

System. Collections. Object Model. Keyed Collection < System. String, Perpetual Intelligence. Cli. Commands. Argument > . Get Key Forltem (Perpetual Intelligence. Cli. Commands. Argument)

GetValue < TValue > (String)

Gets the argument value by its id.

Declaration

public TValue GetValue<TValue>(string argId)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	argld	The argument identifier or the alias.

Returns

ТУРЕ	DESCRIPTION
TValue	

Type Parameters

NAME	DESCRIPTION
TValue	

${\sf GetValue} \small{<} {\sf TValue} \small{<} ({\sf String}, \ {\sf Nullable} \small{<} {\sf Boolean} \small{>})$

Gets the argument value by its id or alias.

Declaration

public TValue GetValue<TValue>(string argIdOrAlias, bool? alias = false)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	argIdOrAlias	The argument identifier or the alias.
System.Nullable < System.Boolean >	alias	true to find the argument by alias, false to find by its identifier.

Returns

ТҮРЕ	DESCRIPTION
TValue	

Type Parameters

NAME	DESCRIPTION
TValue	The value type.

Remarks

We recommend to use GetValue < TValue > (String) to get an argument value. Using alias will degrade the application's performance.

Implements

System.Collections.Generic.IList<T>
System.Collections.Generic.ICollection<T>
System.Collections.Generic.IReadOnlyList<T>
System.Collections.Generic.IReadOnlyCollection<T>
System.Collections.Generic.IEnumerable<T>
System.Collections.IList
System.Collections.ICollection
System.Collections.IEnumerable

Extension Methods

 $IE numerable Extensions. Has Duplicates < T, TProp> (IE numerable < T>, Func < T, TProp>) \\ IE numerable Extensions. Is NullOr Empty < T> (IE numerable < T>)$

Class ArgumentString

An immutable argument string extracted from the CommandString.

Inheritance

System.Object

ArgumentString

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)

Namespace: PerpetualIntelligence.Cli.Commands

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public sealed class ArgumentString

Constructors

ArgumentString(String)

Initialize a new instance.

Declaration

public ArgumentString(string raw)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	raw	The raw argument string.

ArgumentString(String, Boolean, Int32)

Initialize a new instance.

Declaration

public ArgumentString(string raw, bool aliasPrefix, int position)

ТҮРЕ	NAME	DESCRIPTION
System.String	raw	The raw argument string.
System.Boolean	aliasPrefix	true if the argument string has an alias prefix, otherwise false.

TYPE	NAME	DESCRIPTION
System.Int32	position	The zero based position or index of the argument string with in a command string.

Properties

AliasPrefix

true if the argument string has an alias prefix, otherwise false.

Declaration

```
public bool AliasPrefix { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

Position

The zero based position or index of the argument string with in a command string. ///

Declaration

```
public int Position { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Int32	

Raw

The argument string.

Declaration

```
public string Raw { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Methods

ToString()

The string representation of ArgumentString.

Declaration

```
public override string ToString()
```

Returns

ТҮРЕ	DESCRIPTION
System.String	

Overrides

System.Object.ToString()

Class ArgumentStrings

The ordered ArgumentString collection.

Inheritance

System.Object

System.Collections.ObjectModel.Collection < ArgumentString >

System.Collections.ObjectModel.KeyedCollection < System.Int32, ArgumentString >

ArgumentStrings

Implements

System.Collections.Generic.IList<ArgumentString>

System.Collections.Generic.ICollection<ArgumentString>

System.Collections.Generic.IReadOnlyList<ArgumentString>

System.Collections.Generic.IReadOnlyCollection<ArgumentString>

System.Collections.Generic.IEnumerable < ArgumentString >

System.Collections.IList

System.Collections.ICollection

System.Collections.IEnumerable

Inherited Members

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System.Collections.ObjectModel.Collection < PerpetualIntelligence.Cli.Commands.ArgumentString > .Item[System.Int32]

System.Collections.ObjectModel.Collection < PerpetualIntelligence.Cli.Commands.ArgumentString > .Items

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System.Collections.ObjectModel.Collection<PerpetualIntelligence.Cli.Commands.ArgumentString>.System.Collections.IList.IsReadOnly

System.Collections.ObjectModel.Collection < PerpetualIntelligence.Cli.Commands.ArgumentString > .System.Collections.IList.Item[System.Int32]

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: PerpetualIntelligence.Cli.Commands

Assembly: PerpetualIntelligence.Cli.dll

Cunta

public sealed class ArgumentStrings : KeyedCollection<int, ArgumentString>, IList<ArgumentString>, ICollection<ArgumentString>, IReadOnlyList<ArgumentString>, IReadOnlyCollection<ArgumentString>, IEnumerable<ArgumentString>, IList, ICollection, IEnumerable

Remark

 $The \ Argument Strings \ collection \ determines \ the \ Position \ of \ each \ Argument String \ with \ in \ a \ Command Strings \ of \ each \ Argument String \ with \ in \ a \ Command Strings \ of \ each \ Argument String \ of \ each \$

Constructor

ArgumentStrings()

Initializes a new instance

Declaration

public ArgumentStrings()

Methods

GetKeyForItem(ArgumentString)

Gets the Position as a key for the item.

Declaration

protected override int GetKeyForItem(ArgumentString item)

Parameters

ТҮРЕ	NAME	DESCRIPTION
ArgumentString	item	The item to check.

Returns

	ТҮРЕ	DESCRIPTION
	System.Int32	The Position as a key for the item.

Overrides

Implements

System.Collections.Generic.IList<T>

System.Collections.Generic.ICollection<T>

System.Collections.Generic.IReadOnlyList<T>

System. Collections. Generic. IR ead Only Collection < T >

System. Collections. Generic. I Enumerable < T >

System.Collections.IList

System.Collections.ICollection

System.Collections.IEnumerable

Extension Methods

IEnumerableExtensions.HasDuplicates<T, TProp>(IEnumerable<T>, Func<T, TProp>)

IEnumerable Extensions. Is Null Or Empty < T > (IEnumerable < T >)

Class Command

An immutable pi-cli command. A command is a specific action or a set of actions that a user or an application requests the underlying system to perform. It can be a simple action such as invoking a system method or an OS command or representing a complex operation that calls a set of protected APIs over the internal or external network. A command can virtually do anything in the context of your application or service.

Inheritance

System.Object

Command

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: PerpetualIntelligence.Cli.Commands

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public sealed class Command

Constructors

Command(CommandDescriptor, Arguments, Dictionary<String, Object>)

Initializes a new instance.

Declaration

public Command(CommandDescriptor commandDescriptor, Arguments arguments = null, Dictionary<string, object>
properties = null)

Parameters

ТҮРЕ	NAME	DESCRIPTION
CommandDescriptor	commandDescriptor	
Arguments	arguments	
System.Collections.Generic.Dictionary < System.String, System.Object >	properties	

Command(String, String, String, Arguments, Dictionary<String, Object>)

Initialize a new instance.

Declaration

public Command(string id, string name, string description, Arguments arguments = null, Dictionary<string,
object> properties = null)

ТҮРЕ	NAME	DESCRIPTION
System.String	id	The command id.
System.String	name	The command name.
System.String	description	The command description.
Arguments	arguments	The command arguments.
System.Collections.Generic.Dictionary < System.String, System.Object >	properties	The command properties.

Properties

Arguments

The command arguments.

Declaration

```
public Arguments Arguments { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
Arguments	

Description

The command description.

Declaration

```
public string Description { get; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Id

The command id unique.

Declaration

```
public string Id { get; }
```

ТУРЕ	DESCRIPTION
System.String	

Name

The command name.

Declaration

public string Name { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Properties

The command custom properties.

Declaration

public Dictionary<string, object> Properties { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Collections.Generic.Dictionary < System.String, System.Object >	

Methods

GetOptionalArgumentValue < TValue > (String)

Gets the optional argument value for the specified identifier.

Declaration

public TValue GetOptionalArgumentValue<TValue>(string id)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	

Returns

ТҮРЕ	DESCRIPTION
TValue	The optional argument value.

Type Parameters

NAME	DESCRIPTION
TValue	The type of value.

GetRequiredArgumentValue<TValue>(String)

Gets the required argument value for the specified identifier.

Declaration

public TValue GetRequiredArgumentValue<TValue>(string id)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	

Returns

ТҮРЕ	DESCRIPTION
TValue	The argument value.

Type Parameters

NAME	DESCRIPTION
TValue	The type of value.

Exceptions

ТУРЕ	CONDITION
ErrorException	If the argument is not supported.

TryGetArgument(String, out Argument)

Attempts to find an argument.

Declaration

[WriteUnitTest]

public bool TryGetArgument(string id, out Argument argument)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	The argument identifier.

ТҮРЕ	NAME	DESCRIPTION
Argument	argument	The argument if found in the collection.

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	true if an argument exist in the collection, otherwise false.

Extension Methods

 $Command {\tt Extensions.ReadAnswerAsync} (Command, {\tt String}, {\tt String}[])$

See Also

CommandDescriptor Argument Arguments

Class CommandDescriptor

The CommandDescriptor defines the command identity and its supported arguments that an end-user or an application can use. You can also describe the command behavior, such as whether the command is a root, grouped, or subcommand.

Inheritance

System.Object

CommandDescriptor

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: Perpetual Intelligence. Cli. Commands

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public sealed class CommandDescriptor

Constructors

CommandDescriptor(String, String, String, ArgumentDescriptors, Dictionary<String, Object>, String)

Initializes a new instance.

Declaration

public CommandDescriptor(string id, string name, string prefix, string description, ArgumentDescriptors
argumentDescriptors = null, Dictionary<string, object> properties = null, string defaultArgument = null)

Parameters

2 .
to map the command
ription.
ment descriptors.

ТУРЕ	NAME	DESCRIPTION
System.Collections.Generic.Dictionary < System.String, System.Object >	properties	The custom properties.
System.String	defaultArgument	The default argument.

Properties

ArgumentDescriptors

The command argument descriptors.

Declaration

```
public ArgumentDescriptors ArgumentDescriptors { get; }
```

Property Value

ТУРЕ	DESCRIPTION
ArgumentDescriptors	

DefaultArgument

The default argument. null means the command does not support a default argument.

Declaration

```
public string DefaultArgument { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Remarks

DefaultArgument is not the default argument value (see DefaultValue), it is the default argument identifier (see Id) whose value is populated automatically based on the CommandString. If DefaultArgument is set to a non null value, then the ICommandExtractor will attempt to extract the value from the CommandString and put it in an Argument identified by DefaultArgument.

See Also

DefaultValue

Description

The command description.

Declaration

```
public string Description { get; }
```

ТҮРЕ	DESCRIPTION
System.String	

Ιd

The command id.

Declaration

```
public string Id { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Remarks

The command id is unique across all command group.

IsGroup

Returns true if this descriptor represents a command group; otherwise, false.

Declaration

```
public bool IsGroup { get; }
```

Property Value

ТУРЕ	DESCRIPTION
System.Boolean	

IsProtected

Returns true if this descriptor represents a protected command; otherwise, false.

Declaration

```
public bool IsProtected { get; }
```

Property Value

ТУРЕ	DESCRIPTION
System.Boolean	

IsRoot

Returns true if this descriptor represents a command root; otherwise, false.

Declaration

```
public bool IsRoot { get; }
```

ТУРЕ	DESCRIPTION
System.Boolean	

Name

The command name.

Declaration

```
public string Name { get; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Remarks

The command name is unique within a command group.

Prefix

The prefix to match the command string.

Declaration

```
public string Prefix { get; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Properties

The custom properties.

Declaration

```
public Dictionary<string, object> Properties { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Collections.Generic.Dictionary < System.String, System.Object >	

Methods

TryGetArgumentDescriptor(String, out ArgumentDescriptor)

Attempts to find an argument descriptor.

Declaration

public bool TryGetArgumentDescriptor(string argId, out ArgumentDescriptor argumentDescriptor)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	argld	The argument descriptor identifier.
ArgumentDescriptor	argument Descriptor	The argument descriptor if found.

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	true if an argument descriptor exist in the collection, otherwise false.

See Also

Command

ArgumentDescriptor

AddDescriptor < TRunner, TChecker > (ICliBuilder, CommandDescriptor, System.Boolean, System.Boolean, System.Boolean)

Class CommandString

An immutable unicode textual form representing the command and its arguments or options that a user or an application wants to execute.

Inheritance

System.Object

CommandString

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: Perpetual Intelligence. Cli. Commands

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public sealed class CommandString

Constructors

CommandString(String)

Initialize a new instance.

Declaration

[JsonConstructor]
public CommandString(string raw)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	raw	

Properties

Raw

The command string raw value.

Declaration

[JsonPropertyName("raw")]
public string Raw { get; }

ТҮРЕ	DESCRIPTION
System.String	

Namespace PerpetualIntelligence.Cli.Commands.Checkers

Classes

${\bf Argument Checker}$

The argument checker.

Argument Checker Context

The argument checker context.

Argument Checker Result

The argument checker result.

CommandChecker

The command checker.

${\sf CommandCheckerContext}$

The command checker context.

${\sf CommandCheckerResult}$

The command checker result.

Interfaces

IArgumentChecker

An abstraction to check an Argument.

ICommandChecker

An abstraction to check a Command.

Class ArgumentChecker

The argument checker.

Inheritance

System.Object

ArgumentChecker

Implements

IArgumentChecker

IChecker < Argument Checker Context, Argument Checker Result >

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: Perpetual Intelligence. Cli. Commands. Checkers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class ArgumentChecker : IArgumentChecker, IChecker<ArgumentCheckerContext, ArgumentCheckerResult>

Remarks

The ArgumentChecker uses the System.ComponentModel.DataAnnotations.ValidationAttribute to check an argument value.

Constructors

 $Argument Checker (IArgument Data Type Mapper,\ Cli Options,\ ILogger < Argument Checker >)$

Initialize a new instance.

Declaration

public ArgumentChecker(IArgumentDataTypeMapper mapper, CliOptions options, ILogger<ArgumentChecker> logger)

Parameters

ТҮРЕ	NAME	DESCRIPTION
I Argument Data Type Mapper	mapper	The argument data-type mapper.
CliOptions	options	The configuration options.
Microsoft.Extensions.Logging.ILogger <argumentchecker></argumentchecker>	logger	The logger.

Methods

CheckAsync(ArgumentCheckerContext)

Checks the context asynchronously.

Declaration

public async Task<ArgumentCheckerResult> CheckAsync(ArgumentCheckerContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
ArgumentCheckerContext	context	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Argument Checker Result >	The checker result.

Strict Type Checking A sync (Argument Checker Context, Argument Data Type Mapper Result)

Checks the argument value compatibility.

Declaration

protected Task<ArgumentCheckerResult> StrictTypeCheckingAsync(ArgumentCheckerContext context, ArgumentDataTypeMapperResult mapperResult)

Parameters

ТҮРЕ	NAME	DESCRIPTION
ArgumentCheckerContext	context	
ArgumentDataTypeMapperResult	mapperResult	

Returns

ТУРЕ	DESCRIPTION
System.Threading.Tasks.Task <argumentcheckerresult></argumentcheckerresult>	

Implements

IArgumentChecker

IChecker < TContext, TResult>

Class ArgumentCheckerContext

The argument checker context.

Inheritance

System.Object

Argument Checker Context

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: Perpetual Intelligence. Cli. Commands. Checkers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class ArgumentCheckerContext

Constructors

ArgumentCheckerContext(ArgumentDescriptor, Argument)

Initialize a new instance.

Declaration

public ArgumentCheckerContext(ArgumentDescriptor argumentDescriptor, Argument argument)

Parameters

ТУРЕ	NAME	DESCRIPTION
ArgumentDescriptor	argument Descriptor	The argument descriptor.
Argument	argument	The argument.

Exceptions

ТҮРЕ	CONDITION	
System.ArgumentNullException		

Properties

Argument

The argument to check.

Declaration

public Argument Argument { get; set; }

Property Value

ТУРЕ	DESCRIPTION
Argument	

ArgumentDescriptor

The argument descriptor.

Declaration

public ArgumentDescriptor ArgumentDescriptor { get; }

Property Value

ТҮРЕ	DESCRIPTION
ArgumentDescriptor	

See Also

IArgumentChecker ArgumentCheckerResult

Class ArgumentCheckerResult

The argument checker result.

Inheritance

System.Object

Argument Checker Result

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: Perpetual Intelligence. Cli. Commands. Checkers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class ArgumentCheckerResult

Constructors

ArgumentCheckerResult(Type)

Initialize a new instance.

Declaration

public ArgumentCheckerResult(Type mappedType)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Type	mappedType	The mapped type to validate the argument.

Properties

MappedType

The mapped system type.

Declaration

public Type MappedType { get; }

Property Value

ТУРЕ	DESCRIPTION
System.Type	

See Also

IArgumentChecker

Argument Checker Context

Class CommandChecker

The command checker.

Inheritance

System.Object

CommandChecker

Implements

ICommandChecker

IChecker < CommandCheckerContext, CommandCheckerResult>

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: Perpetual Intelligence. Cli. Commands. Checkers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CommandChecker : ICommandChecker, ICheckerCommandCheckerContext, CommandCheckerResult>

Constructors

CommandChecker(IArgumentChecker, CliOptions, ILogger<CommandChecker>)

Initialize a new instance.

Declaration

public CommandChecker(IArgumentChecker argumentChecker, CliOptions options, ILogger<CommandChecker> logger)

Parameters

ТҮРЕ	NAME	DESCRIPTION
IArgumentChecker	argumentChecker	The argument checker.
CliOptions	options	The configuration options.
Microsoft.Extensions.Logging.ILogger < CommandChecker >	logger	The logger.

Methods

CheckAsync(CommandCheckerContext)

Checks the context asynchronously.

Declaration

public virtual async Task<CommandCheckerResult> CheckAsync(CommandCheckerContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
CommandCheckerContext	context	

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <commandcheckerresult></commandcheckerresult>	The checker result.

Implements

ICommandChecker IChecker < TContext, TResult >

Class CommandCheckerContext

The command checker context.

Inheritance

System.Object

CommandCheckerContext

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: Perpetual Intelligence. Cli. Commands. Checkers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CommandCheckerContext

Constructors

CommandCheckerContext(CommandDescriptor, Command)

Initialize a new instance.

Declaration

public CommandCheckerContext(CommandDescriptor commandDescriptor, Command command)

Parameters

ТУРЕ	NAME	DESCRIPTION
CommandDescriptor	commandDescriptor	The command descriptor.
Command	command	The command to check.

Exceptions

ТҮРЕ	CONDITION	
System.ArgumentNullException		

Properties

Command

The command to check.

Declaration

public Command Command { get; set; }

Property Value

ТУРЕ	DESCRIPTION
Command	

${\sf CommandDescriptor}$

The command descriptor.

Declaration

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ТҮРЕ	DESCRIPTION
CommandDescriptor	

Class CommandCheckerResult

The command checker result.

Inheritance

System.Object

Command Checker Result

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: Perpetual Intelligence. Cli. Commands. Checkers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CommandCheckerResult

Interface IArgumentChecker

An abstraction to check an Argument.

Inherited Members

 $IChecker < Argument Checker Context, \ Argument Checker Result > . Check Async (Argument Checker Context)$

Name space: Perpetual Intelligence. Cli. Commands. Checkers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface IArgumentChecker : IChecker<ArgumentCheckerContext, ArgumentCheckerResult>

Interface ICommandChecker

An abstraction to check a Command.

Inherited Members

IChecker < Command Checker Context, Command Checker Result > . Check Async (Command Checker Context)

Name space: Perpetual Intelligence. Cli. Commands. Checkers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface ICommandChecker : IChecker<CommandCheckerContext, CommandCheckerResult>

Namespace PerpetualIntelligence.Cli.Commands.Comparers

Classes

${\bf String Comparison Comparer}$

The default System.StringComparison based IStringComparer to compare the pi-cli command strings, argument strings and argument values.

Class StringComparisonComparer

The default System.StringComparison based IStringComparer to compare the pi-cli command strings, argument strings and argument values.

Inheritance

System.Object

StringComparisonComparer

Implements

IStringComparer

System.Collections.Generic.IEqualityComparer < System.String >

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: PerpetualIntelligence.Cli.Commands.Comparers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class StringComparisonComparer : IStringComparer, IEqualityComparer<string>

Constructors

StringComparisonComparer(StringComparison)

Initialize a new instance.

Declaration

public StringComparisonComparer(StringComparison comparison)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.StringComparison	comparison	

Properties

Comparison

 ${\it Gets the System.} String Comparison \ value \ to \ compare \ the \ two \ strings.$

Declaration

public StringComparison Comparison { get; }

ТҮРЕ	DESCRIPTION
System. String Comparison	

Methods

Equals(String, String)

Determines whether the two System. String objects are equal.

Declaration

public bool Equals(string x, string y)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	х	The first string to compare.
System.String	у	The second string to compare.

Returns

ТУРЕ	DESCRIPTION
System.Boolean	true if the two strings are equal; otherwise, false.

GetHashCode(String)

Returns a hash code for the string.

Declaration

public int GetHashCode(string obj)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	obj	The string.

Returns

ТУРЕ	DESCRIPTION
System.Int32	The hash code.

New(StringComparison)

Creates a new instance with specified System.StringComparison.

Declaration

public static IStringComparer New(StringComparison comparison)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.StringComparison	comparison	The System.StringComparison to use.

Returns

ТУРЕ	DESCRIPTION
IStringComparer	A new StringComparisonComparer instance.

Remarks

New(StringComparison) method is useful to create a new instance where dependency injection is not available to inject the registered IStringComparer.

Implements

IStringComparer

System. Collections. Generic. I Equality Comparer < T >

Namespace PerpetualIntelligence.Cli.Commands.Extractors

Classes

Argument Extractor

The default IArgumentExtractor.

Argument Extractor Context

The argument extractor context.

Argument Extractor Result

The argument extractor result.

CommandExtractor

The default ICommandExtractor.

 ${\color{blue}\mathsf{CommandExtractorContext}}$

The command extractor context.

 ${\color{blue}\mathsf{CommandExtractorResult}}$

The command extractor result.

Interfaces

IArgumentExtractor

An abstraction to extract an argument.

ICommandExtractor

An abstraction to extract a command.

Class ArgumentExtractor

The default IArgumentExtractor.

Inheritance

System.Object

ArgumentExtractor

Implements

IArgumentExtractor

IExtractor < Argument Extractor Context, Argument Extractor Result >

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: Perpetual Intelligence. Cli. Commands. Extractors

Assembly: PerpetualIntelligence.Cli.dll

Syntax

[WriteDocumentation]

public class ArgumentExtractor : IArgumentExtractor, IExtractor<ArgumentExtractorContext,
ArgumentExtractorResult>

Remarks

The syntax for a separator based argument is {arg}={value} for e.g. name=oneimlx. The syntax has 4 parts:

- 1. is an argument prefix. You can configure it via ArgumentPrefix
- 2. {arg} is an argument id. For e.g. name
- 3. = is an argument separator. You can configure it via ArgumentSeparator
- 4. {value} is an argument value. For e.g. oneimlx

Constructors

ArgumentExtractor(IStringComparer, CliOptions, ILogger<ArgumentExtractor>)

Initialize a new instance.

Declaration

public ArgumentExtractor(IStringComparer stringComparer, CliOptions options, ILogger<ArgumentExtractor>
logger)

Parameters

ТҮРЕ	NAME	DESCRIPTION
IStringComparer	stringComparer	The string comparer.
CliOptions	options	The configuration options.

ТУРЕ	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger <argumentextractor></argumentextractor>	logger	The logger.

Properties

Argument Alias No Value Regex Pattern

Gets the REGEX pattern to match the argument alias with no value.

Declaration

protected virtual string ArgumentAliasNoValueRegexPattern { get; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

Remarks

Lets assume that you have configured Separator as a single whitespace string '', and ArgumentAliasPrefix as a single dash character string '-'.

The default implementation for ArgumentAliasNoValueRegexPattern will match using the following criteria:

- 1. '^ *(-)+(.+)\$'Default example REGEX pattern
- 2. '^'Matches the beginning of the string
- 3. '*'Matches 0 or more Separator
- 4. '(-)+'Create a new capture group and matches 1 or more ArgumentAliasPrefix
- 5. '(.+?)'Create a new capture group and matches characters (1 or more) except line breaks
- 6. '\$'Matches the end of the string

ArgumentAliasValueRegexPattern

Gets the REGEX pattern to match the argument id and value using ArgumentPrefix.

Declaration

protected virtual string ArgumentAliasValueRegexPattern { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Argument Id No Value Regex Pattern

Gets the REGEX pattern to match the argument alias and value using ArgumentAliasPrefix.

Declaration

protected virtual string ArgumentIdNoValueRegexPattern { get; }

ТҮРЕ	DESCRIPTION
System.String	

Argument Id Value Regex Pattern

Gets the REGEX pattern to match the argument alias and value using ArgumentAliasPrefix.

Declaration

protected virtual string ArgumentIdValueRegexPattern { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Argument Value Within Regex Pattern

Gets the REGEX pattern to match the argument alias and value using ArgumentValueWithIn.

Declaration

protected virtual string ArgumentValueWithinRegexPattern { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Methods

${\sf ExtractAsync}({\sf ArgumentExtractorContext})$

Extracts from a context asynchronously.

Declaration

public Task<ArgumentExtractorResult> ExtractAsync(ArgumentExtractorContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
ArgumentExtractorContext	context	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Argument Extractor Result >	The extractor result.

Implements

IArgumentExtractor

IExtractor < TContext, TResult >

See Also

ArgumentPrefix ArgumentSeparator

Class ArgumentExtractorContext

The argument extractor context.

Inheritance

System.Object

 $Argument \\ Extractor \\ Context$

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: Perpetual Intelligence. Cli. Commands. Extractors

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class ArgumentExtractorContext

Constructors

ArgumentExtractorContext(ArgumentString, CommandDescriptor)

Initialize a new instance.

Declaration

public ArgumentExtractorContext(ArgumentString argumentString, CommandDescriptor commandDescriptor)

Parameters

ТУРЕ	NAME	DESCRIPTION
ArgumentString	argumentString	The argument string.
CommandDescriptor	commandDescriptor	The command descriptor.

Properties

ArgumentString

The argument string.

Declaration

public ArgumentString ArgumentString { get; set; }

ТУРЕ	DESCRIPTION
ArgumentString	

${\sf CommandDescriptor}$

The command descriptor.

Declaration

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ТҮРЕ	DESCRIPTION
CommandDescriptor	

Class ArgumentExtractorResult

The argument extractor result.

Inheritance

System.Object

Argument Extractor Result

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()

Name space: Perpetual Intelligence. Cli. Commands. Extractors

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class ArgumentExtractorResult

Constructors

ArgumentExtractorResult(Argument)

Initialize a new instance.

Declaration

public ArgumentExtractorResult(Argument argument)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Argument	argument	

Properties

Argument

The extracted argument.

Declaration

public Argument Argument { get; set; }

ТҮРЕ	DESCRIPTION
Argument	

Class CommandExtractor

The default ICommandExtractor.

Inheritance

System.Object

CommandExtractor

Implements

ICommandExtractor

IExtractor < CommandExtractorContext, CommandExtractorResult>

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: Perpetual Intelligence. Cli. Commands. Extractors

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CommandExtractor : ICommandExtractor, IExtractor<CommandExtractorContext, CommandExtractorResult>

Constructors

CommandExtractor(ICommandDescriptorStore, IArgumentExtractor, IStringComparer, CliOptions, ILogger<CommandExtractor>, IDefaultArgumentProvider, IDefaultArgumentValueProvider)

Initialize a new instance.

Declaration

public CommandExtractor(ICommandDescriptorStore commandStore, IArgumentExtractor argumentExtractor,
IStringComparer stringComparer, CliOptions options, ILogger<CommandExtractor> logger, IDefaultArgumentProvider
defaultArgumentProvider = null, IDefaultArgumentValueProvider defaultArgumentValueProvider = null)

Parameters

NAME	DESCRIPTION
commandStore	The command descriptor store.
argumentExtractor	The argument extractor.
stringComparer	The string comparer.
options	The configuration options.
	commandStore argumentExtractor stringComparer

ТҮРЕ	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger <commandextractor></commandextractor>	logger	The logger.
IDefaultArgumentProvider	defaultArgumentProvider	The optional default argument provider.
IDefaultArgumentValueProvider	default Argument Value Provider	The optional argument default value provider.

Methods

${\sf ExtractAsync}({\sf CommandExtractorContext})$

Extracts from a context asynchronously.

Declaration

public async Task<CommandExtractorResult> ExtractAsync(CommandExtractorContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
CommandExtractorContext	context	

Returns

ТУРЕ	DESCRIPTION
System.Threading.Tasks.Task <commandextractorresult></commandextractorresult>	The extractor result.

Implements

ICommandExtractor
IExtractor < TContext, TResult>

See Also

Separator

Class CommandExtractorContext

The command extractor context.

Inheritance

System.Object

 $Command \\ Extractor \\ Context$

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: Perpetual Intelligence. Cli. Commands. Extractors

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CommandExtractorContext

Constructors

CommandExtractorContext(CommandString)

Initialize a new instance.

Declaration

public CommandExtractorContext(CommandString commandString)

Parameters

ТҮРЕ	NAME	DESCRIPTION
CommandString	commandString	The command string.

Properties

CommandString

The command string.

Declaration

public CommandString CommandString { get; set; }

ТҮРЕ	DESCRIPTION
CommandString	

Class CommandExtractorResult

The command extractor result.

Inheritance

System.Object

CommandExtractorResult

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: Perpetual Intelligence. Cli. Commands. Extractors

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CommandExtractorResult

Constructors

CommandExtractorResult(Command, CommandDescriptor)

Initialize a new instance.

Declaration

public CommandExtractorResult(Command command, CommandDescriptor commandDescriptor)

Parameters

ТУРЕ	NAME	DESCRIPTION
Command	command	The extracted command.
CommandDescriptor	command Descriptor	The extracted command descriptor.

Properties

Command

The extracted command.

Declaration

public Command Command { get; }

ТУРЕ	DESCRIPTION
Command	

${\sf CommandDescriptor}$

The extracted command descriptor.

Declaration

<pre>public CommandDescriptor CommandDescriptor { get; }</pre>
--

ТУРЕ	DESCRIPTION
CommandDescriptor	

Interface IArgumentExtractor

An abstraction to extract an argument.

Inherited Members

 $IExtractor < Argument Extractor Context, \ Argument Extractor Result > . Extract Async (Argument Extractor Context)$

Name space: Perpetual Intelligence. Cli. Commands. Extractors

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface IArgumentExtractor : IExtractor<ArgumentExtractorContext, ArgumentExtractorResult>

Interface ICommandExtractor

An abstraction to extract a command.

Inherited Members

IExtractor < Command Extractor Context, Command Extractor Result > . Extract A sync (Command Extractor Context)

Namespace: Perpetual Intelligence. Cli. Commands. Extractors

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface ICommandExtractor : IExtractor<CommandExtractorContext, CommandExtractorResult>

Namespace PerpetualIntelligence.Cli.Commands.Handlers

Classes

CommandHandler

The default handler to handle a pi-cli command request routed from a CommandRouter.

CommandHandlerContext

The command handler context.

CommandHandlerResult

The command handler result.

Interfaces

ICommandHandler

An abstraction to handle a pi-cli command request routed from a ICommandRouter.

Class CommandHandler

The default handler to handle a pi-cli command request routed from a CommandRouter.

Inheritance

System.Object

CommandHandler

Implements

ICommandHandler

IHandler < CommandHandlerContext, CommandHandlerResult >

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: PerpetualIntelligence.Cli.Commands.Handlers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public sealed class CommandHandler : ICommandHandler, IHandler<CommandHandlerContext, CommandHandlerResult>

Constructors

CommandHandler(IServiceProvider, ILicenseChecker, CliOptions, ILogger<CommandHandler>)

Initialize a news instance.

Declaration

public CommandHandler(IServiceProvider services, ILicenseChecker licenseChecker, CliOptions options,
ILogger<CommandHandler> logger)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IServiceProvider	services	
ILicenseChecker	licenseChecker	
CliOptions	options	
Microsoft.Extensions.Logging.ILogger < CommandHandler >	logger	

Methods

Handle A sync (Command Handler Context)

Handles the context.

Declaration

public async Task<CommandHandlerResult> HandleAsync(CommandHandlerContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
CommandHandlerContext	context	

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <commandhandlerresult></commandhandlerresult>	The handler result.

Implements

ICommandHandler IHandler < TContext, TResult >

Class CommandHandlerContext

The command handler context.

Inheritance

System.Object

CommandHandlerContext

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()

Name space: Perpetual Intelligence. Cli. Commands. Handlers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CommandHandlerContext

Constructors

CommandHandlerContext(CommandDescriptor, Command, License)

Initialize a new instance.

Declaration

public CommandHandlerContext(CommandDescriptor commandDescriptor, Command command, License license)

Parameters

ТҮРЕ	NAME	DESCRIPTION
CommandDescriptor	commandDescriptor	The command descriptor to handle.
Command	command	The command handle.
License	license	The extracted license.

Exceptions

ТҮРЕ	CONDITION
System.ArgumentNullException	

Properties

Command

The command to handle.

Declaration

|--|

Property Value

ТУРЕ	DESCRIPTION
Command	

${\sf CommandDescriptor}$

The command descriptor to handle.

Declaration

```
public CommandDescriptor CommandDescriptor { get; protected set; }
```

Property Value

ТУРЕ	DESCRIPTION
CommandDescriptor	

License

The extracted licenses.

Declaration

```
public License License { get; protected set; }
```

ТҮРЕ	DESCRIPTION
License	

Class CommandHandlerResult

The command handler result.

Inheritance

System.Object

CommandHandlerResult

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: Perpetual Intelligence. Cli. Commands. Handlers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CommandHandlerResult

Interface ICommandHandler

An abstraction to handle a pi-cli command request routed from a ICommandRouter.

Inherited Members

 $IH and ler < Command Handler Context, \ Command Handler Result > . Handle A sync (Command Handler Context)$

Namespace: PerpetualIntelligence.Cli.Commands.Handlers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface ICommandHandler : IHandler<CommandHandlerContext, CommandHandlerResult>

Namespace PerpetualIntelligence.Cli.Commands.Mappers

Classes

Argument Data Type Mapper Context

The argument data-type mapper context.

Argument Data Type Mapper Result

The argument data-type mapper result.

Data Annotations Argument Data Type Mapper

The argument data type mapper using System.ComponentModel.DataAnnotations.

Interfaces

IArgument Data Type Mapper

An abstraction to map an DataType to System.Type.

Class ArgumentDataTypeMapperContext

The argument data-type mapper context.

Inheritance

System.Object

Argument Data Type Mapper Context

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: Perpetual Intelligence. Cli. Commands. Mappers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class ArgumentDataTypeMapperContext

Constructors

ArgumentDataTypeMapperContext(Argument)

Initialize a new instance.

Declaration

public ArgumentDataTypeMapperContext(Argument argument)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Argument	argument	The argument.

Exceptions

ТҮРЕ	CONDITION
System.ArgumentNullException	

Properties

Argument

The argument to map.

Declaration

public Argument Argument { get; set; }

ТУРЕ	DESCRIPTION
Argument	

Class ArgumentDataTypeMapperResult

The argument data-type mapper result.

Inheritance

System.Object

Argument Data Type Mapper Result

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: Perpetual Intelligence. Cli. Commands. Mappers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class ArgumentDataTypeMapperResult

Constructors

ArgumentDataTypeMapperResult(Type)

Initialize a new instance.

Declaration

public ArgumentDataTypeMapperResult(Type mappedType)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Type	mappedType	The mapped type.

Exceptions

TYPE		CONDITION
System.A	argumentNullException	Null mapped type.

Properties

MappedType

The mapped system type.

Declaration

public Type MappedType { get; }

ТУРЕ	DESCRIPTION
System.Type	

Class DataAnnotationsArgumentDataTypeMapper

The argument data type mapper using System.ComponentModel.DataAnnotations.

Inheritance

System.Object

DataAnnotationsArgumentDataTypeMapper

Implements

IArgumentDataTypeMapper

IMapper < ArgumentDataTypeMapperContext, ArgumentDataTypeMapperResult>

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: Perpetual Intelligence. Cli. Commands. Mappers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class DataAnnotationsArgumentDataTypeMapper : IArgumentDataTypeMapper, IMapper<ArgumentDataTypeMapperContext, ArgumentDataTypeMapperResult>

Constructors

DataAnnotationsArgumentDataTypeMapper(CliOptions, ILogger<DataAnnotationsArgumentDataTypeMapper>)

Initialize a new instance.

Declaration

public DataAnnotationsArgumentDataTypeMapper(CliOptions options, ILogger<DataAnnotationsArgumentDataTypeMapper> logger)

Parameters

ТҮРЕ	NAME	DESCRIPTION
CliOptions	options	The configuration options.
Microsoft. Extensions. Logging. ILogger < DataAnnotations Argument Data Type Mapper >	logger	The logger.

Methods

MapAsync(ArgumentDataTypeMapperContext)

Maps asynchronously.

Declaration

public Task<ArgumentDataTypeMapperResult> MapAsync(ArgumentDataTypeMapperContext context)

ТҮРЕ	NAME	DESCRIPTION
ArgumentDataTypeMapperContext	context	

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <argumentdatatypemapperresult></argumentdatatypemapperresult>	

Implements

IArgumentDataTypeMapper IMapper < TContext, TResult >

Interface IArgumentDataTypeMapper

An abstraction to map an DataType to System.Type.

Inherited Members

IMapper < Argument Data Type Mapper Context, Argument Data Type Mapper Result > . Map Async (Argument Data Type Mapper Context)

Name space: Perpetual Intelligence. Cli. Commands. Mappers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface IArgumentDataTypeMapper : IMapper<ArgumentDataTypeMapperContext, ArgumentDataTypeMapperResult>

Namespace PerpetualIntelligence.Cli.Commands.Providers

Classes

DefaultArgumentProvider

The default argument provider.

Default Argument Provider Context

The argument default provider context.

Default Argument Provider Result

The argument default provider result.

Default Argument Value Provider

The default argument default value provider.

Default Argument Value Provider Context

The argument default value provider context.

Default Argument Value Provider Result

The argument default value provider result.

Interfaces

IDefault Argument Provider

An abstraction to provide an argument's default value.

IDe fault Argument Value Provider

An abstraction to provide an argument's default value.

Class DefaultArgumentProvider

The default argument provider.

Inheritance

System.Object

DefaultArgumentProvider

Implements

IDefaultArgumentProvider

IProvider < DefaultArgumentProviderContext, DefaultArgumentProviderResult>

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: Perpetual Intelligence. Cli. Commands. Providers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class DefaultArgumentProvider : IDefaultArgumentProvider, IProvider<DefaultArgumentProviderContext,
DefaultArgumentProviderResult>

Constructors

DefaultArgumentProvider(CliOptions, ILogger<DefaultArgumentProvider>)

Initialize a new instance.

Declaration

public DefaultArgumentProvider(CliOptions options, ILogger<DefaultArgumentProvider> logger)

Parameters

ТҮРЕ	NAME	DESCRIPTION
CliOptions	options	The configuration options.
Microsoft.Extensions.Logging.ILogger < DefaultArgumentProvider >	logger	The logger.

Methods

Provide A sync (Default Argument Provider Context)

Provides default values for all the command arguments.

Declaration

public Task<DefaultArgumentProviderResult> ProvideAsync(DefaultArgumentProviderContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
DefaultArgumentProviderContext	context	The argument default value provider context.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <defaultargumentproviderresult></defaultargumentproviderresult>	The DefaultArgumentValueProviderResult instance that contains the default values.

Exceptions

ТҮРЕ	CONDITION
ErrorException	

Implements

IDefaultArgumentProvider IProvider<TContext, TResult>

See Also

DefaultArgument

Class DefaultArgumentProviderContext

The argument default provider context.

Inheritance

System.Object

Default Argument Provider Context

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: Perpetual Intelligence. Cli. Commands. Providers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class DefaultArgumentProviderContext

Constructors

Default Argument Provider Context (Command Descriptor)

Initialize a new instance.

Declaration

 $\verb|public DefaultArgumentProviderContext(CommandDescriptor commandDescriptor)|\\$

Parameters

ТУРЕ	NAME	DESCRIPTION
CommandDescriptor	commandDescriptor	The command descriptor.

Properties

Command Descriptor

The command descriptor.

Declaration

public CommandDescriptor CommandDescriptor { get; set; }

ТҮРЕ	DESCRIPTION
CommandDescriptor	

Class DefaultArgumentProviderResult

The argument default provider result.

Inheritance

System.Object

Default Argument Provider Result

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: Perpetual Intelligence. Cli. Commands. Providers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class DefaultArgumentProviderResult

Constructors

DefaultArgumentProviderResult(ArgumentDescriptor)

Initialize a new instance.

Declaration

public DefaultArgumentProviderResult(ArgumentDescriptor defaultArgumentDescriptor)

Parameters

ТУРЕ	NAME	DESCRIPTION
ArgumentDescriptor	default Argument Descriptor	The default argument descriptor.

Properties

DefaultArgumentDescriptor

The default argument descriptor.

Declaration

public ArgumentDescriptor DefaultArgumentDescriptor { get; }

ТУРЕ	DESCRIPTION
ArgumentDescriptor	

Class DefaultArgumentValueProvider

The default argument default value provider.

Inheritance

System.Object

DefaultArgumentValueProvider

Implements

IDefaultArgumentValueProvider

IProvider < Default Argument Value Provider Context, Default Argument Value Provider Result >

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: Perpetual Intelligence. Cli. Commands. Providers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class DefaultArgumentValueProvider : IDefaultArgumentValueProvider,
IProvider<DefaultArgumentValueProviderContext, DefaultArgumentValueProviderResult>

Constructors

Default Argument Value Provider (IString Comparer)

Initialize a new instance.

Declaration

public DefaultArgumentValueProvider(IStringComparer stringComparer)

Parameters

ТУРЕ	NAME	DESCRIPTION
IStringComparer	stringComparer	The string comparer.

Methods

Provide A sync (Default Argument Value Provider Context)

Provides default values for all the command arguments.

Declaration

public Task<DefaultArgumentValueProviderResult> ProvideAsync(DefaultArgumentValueProviderContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION

ТҮРЕ	NAME	DESCRIPTION
DefaultArgumentValueProviderContext	context	The argument default value provider context.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <defaultargumentvalueproviderresult></defaultargumentvalueproviderresult>	The DefaultArgumentValueProviderResult instance that contains the default values.

Exceptions

ТҮРЕ	CONDITION
ErrorException	

Implements

IDefaultArgumentValueProvider IProvider < TContext, TResult>

Class DefaultArgumentValueProviderContext

The argument default value provider context.

Inheritance

System.Object

Default Argument Value Provider Context

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: Perpetual Intelligence. Cli. Commands. Providers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class DefaultArgumentValueProviderContext

Constructors

Default Argument Value Provider Context (Command Descriptor)

Initialize a new instance.

Declaration

public DefaultArgumentValueProviderContext(CommandDescriptor commandDescriptor)

Parameters

ТУРЕ	NAME	DESCRIPTION
CommandDescriptor	commandDescriptor	The command descriptor.

Properties

Command Descriptor

The command descriptor.

Declaration

public CommandDescriptor CommandDescriptor { get; set; }

ТҮРЕ	DESCRIPTION
CommandDescriptor	

Class DefaultArgumentValueProviderResult

The argument default value provider result.

Inheritance

System.Object

Default Argument Value Provider Result

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: Perpetual Intelligence. Cli. Commands. Providers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class DefaultArgumentValueProviderResult

Constructors

Default Argument Value Provider Result (Argument Descriptors)

Initialize a new instance.

Declaration

 $public\ Default Argument Value Provider Result (Argument Descriptors\ default Value Argument Descriptors)$

Parameters

ТҮРЕ	NAME	DESCRIPTION
ArgumentDescriptors	default Value Argument Descriptors	The default value argument descriptors.

Properties

DefaultValueArgumentDescriptors

The default value argument descriptors.

Declaration

public ArgumentDescriptors DefaultValueArgumentDescriptors { get; }

ТҮРЕ	DESCRIPTION
ArgumentDescriptors	

Interface IDefaultArgumentProvider

An abstraction to provide an argument's default value.

Inherited Members

 $IProvider < Default Argument Provider Context, \ Default Argument Provider Result > . Provide Async (Default Argument Provider Context)$

Name space: Perpetual Intelligence. Cli. Commands. Providers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface IDefaultArgumentProvider : IProvider<DefaultArgumentProviderContext,
DefaultArgumentProviderResult>

Interface IDefaultArgumentValueProvider

An abstraction to provide an argument's default value.

Inherited Members

IProvider < Default Argument Value Provider Context,

Default Argument Value Provider Result >. Provide Async (Default Argument Value Provider Context)

Name space: Perpetual Intelligence. Cli. Commands. Providers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface IDefaultArgumentValueProvider : IProvider<DefaultArgumentValueProviderContext,
DefaultArgumentValueProviderResult>

Namespace PerpetualIntelligence.Cli.Commands.Publishers

Classes

ErrorPublisher

The default IErrorPublisher to publish an Error.

ErrorPublisherContext

The IExceptionPublisher context.

ExceptionPublisher

The default IExceptionPublisher to publish an System.Exception.

 ${\bf Exception Publisher Context}$

The IExceptionPublisher context.

Interfaces

IErrorPublisher

An abstraction to publish Error.

IExceptionPublisher

An abstraction to publish System. Exception.

Class ErrorPublisher

The default IErrorPublisher to publish an Error.

Inheritance

System.Object

ErrorPublisher

Implements

IErrorPublisher

IPublisherNoResult<ErrorPublisherContext>

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: Perpetual Intelligence. Cli. Commands. Publishers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class ErrorPublisher : IErrorPublisher, IPublisherNoResult<ErrorPublisherContext>

Constructors

ErrorPublisher(CliOptions, ILogger<ExceptionPublisher>)

Initialize a new instance.

Declaration

public ErrorPublisher(CliOptions options, ILogger<ExceptionPublisher> logger)

Parameters

ТУРЕ	NAME	DESCRIPTION
CliOptions	options	The configuration options.
Microsoft.Extensions.Logging.ILogger <exceptionpublisher></exceptionpublisher>	logger	The logger.

Methods

PublishAsync(ErrorPublisherContext)

Publish the Error asynchronously

Declaration

public Task PublishAsync(ErrorPublisherContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
ErrorPublisherContext	context	The error to publish.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	The string representation.

Implements

IErrorPublisher
IPublisherNoResult<TContext>

Class ErrorPublisherContext

The IExceptionPublisher context.

Inheritance

System.Object

ErrorPublisherContext

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: Perpetual Intelligence. Cli. Commands. Publishers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class ErrorPublisherContext

Constructors

ErrorPublisherContext(Error)

Initialize a new instance.

Declaration

public ErrorPublisherContext(Error error)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Error	error	The error.

ErrorPublisherContext(Error, String)

Initialize a new instance.

Declaration

public ErrorPublisherContext(Error error, string rawCommandString)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Error	error	The error.
System.String	rawCommandString	The raw command string.

Properties	
Error	

The error.

Declaration

public Error Error { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
Error	

Raw Command String

The raw command string.

Declaration

public string RawCommandString { get; set; }

ТҮРЕ	DESCRIPTION
System.String	

Class ExceptionPublisher

The default IExceptionPublisher to publish an System.Exception.

Inheritance

System.Object

ExceptionPublisher

Implements

IExceptionPublisher

IPublisherNoResult<ExceptionPublisherContext>

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: Perpetual Intelligence. Cli. Commands. Publishers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class ExceptionPublisher : IExceptionPublisher, IPublisherNoResult<ExceptionPublisherContext>

Constructors

ExceptionPublisher(CliOptions, ILogger<ExceptionPublisher>)

Initialize a new instance.

Declaration

public ExceptionPublisher(CliOptions options, ILogger<ExceptionPublisher> logger)

Parameters

ТҮРЕ	NAME	DESCRIPTION
CliOptions	options	The configuration options.
Microsoft.Extensions.Logging.ILogger < ExceptionPublisher >	logger	The logger.

Methods

PublishAsync(ExceptionPublisherContext)

Publish the System. Exception asynchronously to the logger.

Declaration

public Task PublishAsync(ExceptionPublisherContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
ExceptionPublisherContext	context	The error to publish.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task	The string representation.

Implements

IExceptionPublisher
IPublisherNoResult<TContext>

Class ExceptionPublisherContext

The IExceptionPublisher context.

Inheritance

System.Object

ExceptionPublisherContext

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: Perpetual Intelligence. Cli. Commands. Publishers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class ExceptionPublisherContext

Constructors

ExceptionPublisherContext(String, Exception)

Initialize a new instance.

Declaration

public ExceptionPublisherContext(string rawCommandString, Exception exception)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	rawCommandString	The raw command string.
System.Exception	exception	The exception.

Properties

Exception

The exception.

Declaration

public Exception Exception { get; set; }

ТУРЕ	DESCRIPTION
System.Exception	

Raw Command String

The command string.

Declaration

ublic string RawCommandString { get; set; }	
---	--

ТУРЕ	DESCRIPTION
System.String	

Interface IErrorPublisher

An abstraction to publish Error.

Inherited Members

IPublisherNoResult<ErrorPublisherContext>.PublishAsync(ErrorPublisherContext)

Name space: Perpetual Intelligence. Cli. Commands. Publishers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface IErrorPublisher : IPublisherNoResult<ErrorPublisherContext>

Interface IExceptionPublisher

An abstraction to publish System. Exception.

Inherited Members

IPublisher No Result < Exception Publisher Context > . Publish A sync (Exception Publisher Context)

Name space: Perpetual Intelligence. Cli. Commands. Publishers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface IExceptionPublisher : IPublisherNoResult<ExceptionPublisherContext>

Namespace PerpetualIntelligence.Cli.Commands.Routers

Classes

CommandRouter

The default ICommandRouter.

 ${\sf CommandRouterContext}$

The pi-cli generic command router context.

Command Router Result

The command router context.

Interfaces

ICommandRouter

An abstraction of a command router.

Class CommandRouter

The default ICommandRouter.

Inheritance

System.Object

CommandRouter

Implements

ICommandRouter

IRouter < CommandRouterContext, CommandRouterResult, ICommandHandler >

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: Perpetual Intelligence. Cli. Commands. Routers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public sealed class CommandRouter : ICommandRouter, IRouter<CommandRouterContext, CommandRouterResult,
ICommandHandler>

Constructors

CommandRouter(ILicenseExtractor, ICommandExtractor, ICommandHandler)

Initializes a new instance.

Declaration

public CommandRouter(ILicenseExtractor licenseExtractor, ICommandExtractor commandExtractor, ICommandHandler commandHandler)

Parameters

ТҮРЕ	NAME	DESCRIPTION
ILicenseExtractor	licenseExtractor	The license extractor.
ICommandExtractor	commandExtractor	The command extractor.
ICommandHandler	commandHandler	The command handler.

Methods

Route A sync (Command Router Context)

Routes the command request to the registered handler.

Declaration

public async Task<CommandRouterResult> RouteAsync(CommandRouterContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
CommandRouterContext	context	The router context.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Command Router Result >	The CommandRouterResult instance.

TryFindHandlerAsync (CommandRouterContext)

Finds a matching route handler for a request asynchronously.

Declaration

public Task<TryResultOrError<ICommandHandler>> TryFindHandlerAsync(CommandRouterContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
CommandRouterContext	context	

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tryresultorerror<icommandhandler>></tryresultorerror<icommandhandler>	The request handler.

Implements

ICommandRouter

IRouter < TContext, TResult, THandler >

Class CommandRouterContext

The pi-cli generic command router context.

Inheritance

System.Object

CommandRouterContext

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: Perpetual Intelligence. Cli. Commands. Routers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CommandRouterContext

Constructors

CommandRouterContext(String, Nullable < CancellationToken >)

The command string.

Declaration

public CommandRouterContext(string rawCommandString, CancellationToken? cancellationToken = null)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	rawCommandString	The raw command string.
System.Nullable < System.Threading.CancellationToken >	cancellationToken	The cancellation token.

Properties

CancellationToken

The cancellation token.

Declaration

public CancellationToken? CancellationToken { get; protected set; }

ТҮРЕ	DESCRIPTION
System.Nullable < System.Threading.CancellationToken >	

Raw Command String

The raw command string.

Declaration

|--|

ТҮРЕ	DESCRIPTION
System.String	

Class CommandRouterResult

The command router context.

Inheritance

System.Object

Command Router Result

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: Perpetual Intelligence. Cli. Commands. Routers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CommandRouterResult

Interface ICommandRouter

An abstraction of a command router.

Inherited Members

 $IRouter < Command Router Context, Command Router Result, ICommand Handler > . Route A sync (Command Router Context) \\ IRouter < Command Router Context, Command Router Result, ICommand Handler > . Try Find Handler A sync (Command Router Context) \\ IRouter < Command Router Context, Command Router Result, ICommand Handler > . Try Find Handler A sync (Command Router Context) \\ IRouter < Command Router Context, Command Router Result, ICommand Handler > . Try Find Handler A sync (Command Router Context) \\ IRouter < Command Router Result, ICommand Handler > . Try Find Handler A sync (Command Router Result) \\ IRouter < Command Router Result, ICommand Handler > . Try Find Handler A sync (Command Router Result) \\ IRouter < Command Router Result, ICommand Handler > . Try Find Handler A sync (Command Router Result) \\ IRouter < Command Router Result, ICommand R$

Name space: Perpetual Intelligence. Cli. Commands. Routers

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface ICommandRouter : IRouter<CommandRouterContext, CommandRouterResult, ICommandHandler>

Namespace PerpetualIntelligence.Cli.Commands.Runners

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ClearScreenRunner

The clear screen command runner.

CommandRunner

The command runner.

CommandRunnerContext

The command runner context.

CommandRunnerResult

The command runner result.

ExitRunner

The exit command runner.

LicInfoRunner

The lic command displays the current licensing information.

RunRunner

The run command runner.

Interfaces

ICommandRunner

An abstraction of a command runner.

Class ClearScreenRunner

The clear screen command runner.

Inheritance

System.Object

CommandRunner

ClearScreenRunner

Implements

ICommandRunner

IRunner < CommandRunner Context, CommandRunner Result >

Inherited Members

CommandRunner.Options

CommandRunner.Logger

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: Perpetual Intelligence. Cli. Commands. Runners

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class ClearScreenRunner : CommandRunner, ICommandRunner, IRunner<CommandRunnerContext,
CommandRunnerResult>

Constructors

ClearScreenRunner(IHost, CliOptions, ILogger<ExitRunner>)

Initializes a new instance.

Declaration

public ClearScreenRunner(IHost host, CliOptions options, ILogger<ExitRunner> logger)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Extensions. Hosting. I Host	host	The host.
CliOptions	options	The configuration options.
Microsoft.Extensions.Logging.ILogger <exitrunner></exitrunner>	logger	The logger.

Methods

RunAsync(CommandRunnerContext)

Runs a context asynchronously.

Declaration

public override Task<CommandRunnerResult> RunAsync(CommandRunnerContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
CommandRunnerContext	context	

Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < Command Runner Result >	The runner result.

Overrides

Command Runner. Run A sync (Command Runner Context)

Implements

ICommandRunner IRunner < TContext, TResult >

Class CommandRunner

The command runner.

Inheritance

System.Object

CommandRunner

ClearScreenRunner

ExitRunner

RunRunner

Implements

ICommandRunner

IRunner < CommandRunner Context, CommandRunner Result >

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: Perpetual Intelligence. Cli. Commands. Runners

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public abstract class CommandRunner : ICommandRunner, IRunner<CommandRunnerContext, CommandRunnerResult>

Constructors

CommandRunner(CliOptions, ILogger)

Initialize a new instance.

Declaration

protected CommandRunner(CliOptions options, ILogger logger)

Parameters

ТУРЕ	NAME	DESCRIPTION
CliOptions	options	The configuration options.
Microsoft.Extensions.Logging.lLogger	logger	The logger.

Properties

Logger

The command runner logger.

Declaration

protected ILogger Logger { get; }

Property Value

ТҮРЕ	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	

Options

The configuration options.

Declaration

public CliOptions Options { get; }

Property Value

ТУРЕ	DESCRIPTION
CliOptions	

Methods

RunAsync(CommandRunnerContext)

Runs a context asynchronously.

Declaration

public abstract Task<CommandRunnerResult> RunAsync(CommandRunnerContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
CommandRunnerContext	context	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Command Runner Result >	The runner result.

Implements

ICommandRunner IRunner < TContext, TResult >

Class CommandRunnerContext

The command runner context.

Inheritance

System.Object

CommandRunnerContext

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: Perpetual Intelligence. Cli. Commands. Runners

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CommandRunnerContext

Constructors

CommandRunnerContext(Command)

Initialize a new instance.

Declaration

public CommandRunnerContext(Command command)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Command	command	The command to run.

Exceptions

ТУРЕ	CONDITION
System.ArgumentNullException	

Properties

Command

The checked command to run.

Declaration

public Command Command { get; }

ТУРЕ	DESCRIPTION
Command	

Class CommandRunnerResult

The command runner result.

Inheritance

System.Object

Command Runner Result

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: Perpetual Intelligence. Cli. Commands. Runners

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CommandRunnerResult

Class ExitRunner

The exit command runner.

Inheritance

System.Object

CommandRunner

ExitRunner

Implements

ICommandRunner

IRunner < CommandRunner Context, CommandRunner Result >

Inherited Members

CommandRunner.Options

CommandRunner.Logger

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: Perpetual Intelligence. Cli. Commands. Runners

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class ExitRunner : CommandRunner, ICommandRunner, IRunner<CommandRunnerContext, CommandRunnerResult>

Constructors

ExitRunner(IHost, CliOptions, ILogger<ExitRunner>)

Initializes a new instance.

Declaration

public ExitRunner(IHost host, CliOptions options, ILogger<ExitRunner> logger)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft.Extensions.Hosting.IHost	host	The host.
CliOptions	options	The configuration options.
Microsoft.Extensions.Logging.ILogger <exitrunner></exitrunner>	logger	The logger.

Methods

RunAsync(CommandRunnerContext)

Runs a context asynchronously.

Declaration

public override async Task<CommandRunnerResult> RunAsync(CommandRunnerContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
CommandRunnerContext	context	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Command Runner Result >	The runner result.

Overrides

Command Runner. Run A sync (Command Runner Context)

Implements

ICommandRunner IRunner < TContext, TResult >

Interface ICommandRunner

An abstraction of a command runner.

Inherited Members

IRunner < Command Runner Context, Command Runner Result > . Run Async (Command Runner Context)

Name space: Perpetual Intelligence. Cli. Commands. Runners

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface ICommandRunner : IRunner<CommandRunnerContext, CommandRunnerResult>

Class LicInfoRunner

The lic command displays the current licensing information.

Inheritance

System.Object

LicInfoRunner

Implements

ICommandRunner

IRunner < CommandRunner Context, CommandRunner Result >

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: PerpetualIntelligence.Cli.Commands.Runners

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class LicInfoRunner : ICommandRunner, IRunner<CommandRunnerContext, CommandRunnerResult>

Constructors

LicInfoRunner(ILicenseExtractor, ILicenseChecker)

Initialize a new instance.

Declaration

public LicInfoRunner(ILicenseExtractor licenseExractor, ILicenseChecker licenseChecker)

Parameters

ТУРЕ	NAME	DESCRIPTION
ILicenseExtractor	licenseExractor	
ILicenseChecker	licenseChecker	

Methods

RunAsync(CommandRunnerContext)

Runs a context asynchronously.

Declaration

public async Task<CommandRunnerResult> RunAsync(CommandRunnerContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
CommandRunnerContext	context	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Command Runner Result >	The runner result.

Implements

ICommandRunner IRunner<TContext, TResult>

Class RunRunner

The run command runner.

Inheritance

System.Object

CommandRunner

RunRunner

Implements

ICommandRunner

IRunner < CommandRunnerContext, CommandRunnerResult>

Inherited Members

CommandRunner.Options

CommandRunner.Logger

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: Perpetual Intelligence. Cli. Commands. Runners

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class RunRunner : CommandRunner, ICommandRunner, IRunner<CommandRunnerContext, CommandRunnerResult>

Constructors

RunRunner(CliOptions, ILogger)

Initialize a new instance.

Declaration

public RunRunner(CliOptions options, ILogger logger)

Parameters

ТҮРЕ	NAME	DESCRIPTION
CliOptions	options	The configuration options.
Microsoft.Extensions.Logging.ILogger	logger	The logger.

Methods

RunAsync(CommandRunnerContext)

Runs a context asynchronously.

Declaration

public override Task<CommandRunnerResult> RunAsync(CommandRunnerContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
CommandRunnerContext	context	

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <commandrunnerresult></commandrunnerresult>	The runner result.

Overrides

Command Runner. Run A sync (Command Runner Context)

Implements

ICommandRunner IRunner < TContext, TResult >

Namespace PerpetualIntelligence.Cli.Commands.Stores

Interfaces

ICommand Descriptor Store

A store abstraction to lookup a CommandDescriptor.

Interface ICommandDescriptorStore

A store abstraction to lookup a CommandDescriptor.

Name space: Perpetual Intelligence. Cli. Commands. Stores

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface ICommandDescriptorStore

Methods

TryFindByIdAsync(String)

Attempts to finds a CommandDescriptor by its id.

Declaration

Task<TryResultOrError<CommandDescriptor>> TryFindByIdAsync(string id)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	The command id.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tryresultorerror<commanddescriptor>></tryresultorerror<commanddescriptor>	

TryFindByNameAsync(String)

Attempts to find a a CommandDescriptor by its name.

Declaration

Task<TryResultOrError<CommandDescriptor>> TryFindByNameAsync(string name)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	name	The command name.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < TryResultOrError < Command Descriptor > >	

TryFindByPrefixAsync(String)

Attempts to find a a CommandDescriptor by its prefix.

Declaration

Task <tryresultorerror<commanddescriptor>> TryFindByPrefixAsync(string prefix)</tryresultorerror<commanddescriptor>
--

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	prefix	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Try Result Or Error < Command Descriptor > >	

TryMatchByPrefixAsync(String)

Attempts to match a a CommandDescriptor by its prefix.

Declaration

Task<TryResultOrError<CommandDescriptor>> TryMatchByPrefixAsync(string prefix)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	prefix	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Try Result Or Error < Command Descriptor > >	

Namespace PerpetualIntelligence.Cli.Configuration.Options

Classes

Authentication Options

The authentication configuration options.

CheckerOptions

The checker configuration option.

CliOptions

The pi-cli configuration options.

ExtractorOptions

The extractor configuration option.

HostingOptions

The hosting configuration options.

HttpOptions

The HTTP configuration options.

LicensingOptions

The licensing configuration options.

LoggingOptions

The logging configuration options.

TerminalOptions

The terminal configuration options.

Class AuthenticationOptions

The authentication configuration options.

Inheritance

System.Object

AuthenticationOptions

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: Perpetual Intelligence. Cli. Configuration. Options

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class AuthenticationOptions

Properties

ApplicationId

The authorized application or the client identifier.

Declaration

public string ApplicationId { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Authority

The authentication authority.

Declaration

public string Authority { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

HttpClientName

The HTTP client name.

Declaration

public string HttpClientName { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Remarks

The name must match the AddAuthentication < TProvider, TAppFactory, TAppCache, TDelegateHandler > (ICliBuilder, String, String, Nullable < Int32 >)

RedirectUri

The authentication redirect URI. Defaults to http://localhost.

Declaration

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

Property Value

ТУРЕ	DESCRIPTION
System.String	

See Also

https://github.com/AzureAD/microsoft-authentication-extensions-for-dotnet/wiki/Cross-platform-Token-Cache https://docs.microsoft.com/en-us/azure/active-directory/develop/msal-net-token-cache-serialization?tabs=desktop

Scopes

The authentication scopes.

Declaration

```
public string[] Scopes { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String[]	

TenantId

The authentication tenant identifier.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.String	

UseEmbeddedView

Specifies if the public client application should used an embedded web browser or the system default browser.

Declaration

<pre>beddedView { get; set; }</pre>

ТУРЕ	DESCRIPTION
System.Nullable < System.Boolean >	

Class CheckerOptions

The checker configuration option.

Inheritance

System.Object

CheckerOptions

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: Perpetual Intelligence. Cli. Configuration. Options

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CheckerOptions

Properties

AllowObsoleteArgument

Determines whether the checker allows an obsolete argument.

Declaration

public bool? AllowObsoleteArgument { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.Nullable < System.Boolean >	

DataTypeCheck

Defines the checker data type checks. Defaults to null or no data type checks.

Declaration

public string DataTypeCheck { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

StrictTypeChecking

Determines whether the checker allows strict type checking.

Declaration

public bool? StrictTypeChecking { get; set; }

ТҮРЕ	DESCRIPTION
System.Nullable < System.Boolean >	

Class CliOptions

The pi-cli configuration options.

Inheritance

System.Object

CliOptions

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: Perpetual Intelligence. Cli. Configuration. Options

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CliOptions

Properties

Authentication

The authentication configuration options.

Declaration

public AuthenticationOptions Authentication { get; set; }

Property Value

ТУРЕ	DESCRIPTION
AuthenticationOptions	

Checker

The checker configuration options.

Declaration

public CheckerOptions Checker { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
CheckerOptions	

Extractor

The extractor configuration options.

Declaration

public ExtractorOptions Extractor { get; set; }

Property Value

ТУРЕ	DESCRIPTION
ExtractorOptions	

Hosting

The hosting configuration options.

Declaration

```
public HostingOptions Hosting { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
HostingOptions	

Http

The HTTP configuration options.

Declaration

```
public HttpOptions Http { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
HttpOptions	

Licensing

The licensing configuration options.

Declaration

```
public LicensingOptions Licensing { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
LicensingOptions	

Logging

The logging configuration options.

Declaration

```
public LoggingOptions Logging { get; set; }
```

ТУРЕ	DESCRIPTION
LoggingOptions	

Terminal

The terminal configuration options.

Declaration

TerminalOptions Terminal { get; set; }
--

ТУРЕ	DESCRIPTION
TerminalOptions	

Class ExtractorOptions

The extractor configuration option.

Inheritance

System.Object

ExtractorOptions

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: Perpetual Intelligence. Cli. Configuration. Options

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class ExtractorOptions

Properties

ArgumentAlias

Determines whether the extractor support extracting the argument by alias. Defaults to null.

Declaration

public bool? ArgumentAlias { get; set; }

Property Value

Т	ТҮРЕ	DESCRIPTION
S	System.Nullable < System.Boolean >	

Remarks

Argument alias supports the legacy apps that identified a command argument with an id and an alias string. For modern console apps, we recommend using just an argument identifier. The core data model is optimized to work with argument id. In general, an app should not identify the same argument with multiple string. Using alias will degrade the performance.

ArgumentAliasPrefix

The argument alias prefix. Defaults to -.

Declaration

public string ArgumentAliasPrefix { get; set; }

ТУРЕ	DESCRIPTION
System.String	

The argument alias prefix cannot be null or whitespace.				
ArgumentPrefix				
The argument prefix. Defaults to				
Declaration				
<pre>public string ArgumentPrefix { get; set; }</pre>				
Property Value				
ТҮРЕ	DESCRIPTION			
System.String				
Remarks				
The argument prefix cannot be null or whitespace.				
ArgumentSeparator				
The argument value separator. Defaults to equals char =.				
Declaration				
<pre>public string ArgumentSeparator { get; set; }</pre>				
Property Value				
ТҮРЕ	DESCRIPTION			
System.String				
ArgumentValueWithIn				
Defines the token within which to extract an argument value. De	efault to null.			
Declaration				
<pre>public string ArgumentValueWithIn { get; set; }</pre>				
Property Value				
ТҮРЕ	DESCRIPTION			
System.String				
CommandIdRegexPattern				
Defines the Regex pattern for command identifier. Defaults to ^[A-Za-z0-9]*\$.				
Declaration				
<pre>public string CommandIdRegexPattern { get; set; }</pre>				
Property Value				
ТУРЕ	DESCRIPTION			
System.String				

DefaultArgument

Determines whether the extractor support extracting default arguments. Defaults to null.

Declaration

<pre>.ic bool? DefaultArgument { get; set; }</pre>

Property Value

ТУРЕ	DESCRIPTION
System.Nullable < System.Boolean >	

DefaultArgumentValue

Determines whether the extractor support extracting default argument values. Defaults to null.

Declaration

```
public bool? DefaultArgumentValue { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Nullable < System.Boolean >	

Separator

The command string separator. Defaults to a single space char.

Declaration

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

ТҮРЕ	DESCRIPTION
System.String	

Class HostingOptions

The hosting configuration options.

Inheritance

System.Object

LoggingOptions

HostingOptions

Inherited Members

LoggingOptions.ObscureErrorArgumentString

LoggingOptions.ObsureErrorArguments

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: Perpetual Intelligence. Cli. Configuration. Options

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class HostingOptions : LoggingOptions

Properties

CommandRouterTimeout

The command router timeout in milliseconds. Defaults to 10 seconds. Use System. Threading. Timeout. Infinite for no timeout.

Declaration

public int CommandRouterTimeout { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Int32	

ErrorHandling

Defines the hosting and routing error handling. Defaults to default error handling.

Declaration

public string ErrorHandling { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

ServiceImplementation

Defines the hosting and routing service implementation. Defaults to default service implementation.

Declaration

public	string	ServiceImplementation	{	get;	set;	}

Property Value

ТУРЕ	DESCRIPTION
System.String	

Store

Defines the hosting and routing store. Defaults to in_memory store implementation.

Declaration

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

Property Value

ТУРЕ	DESCRIPTION
System.String	

${\tt UnicodeSupport}$

Defines the hosting and routing service implementation. Defaults to default service implementation.

Declaration

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

ТҮРЕ	DESCRIPTION
System.String	

Class HttpOptions

The HTTP configuration options.

Inheritance

System.Object

HttpOptions

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: Perpetual Intelligence. Cli. Configuration. Options

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class HttpOptions

Class LicensingOptions

The licensing configuration options.

Inheritance

System.Object

LicensingOptions

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: Perpetual Intelligence. Cli. Configuration. Options

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class LicensingOptions

Properties

AuthorizedApplicationId

The license authorized application id.

Declaration

public string AuthorizedApplicationId { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

CheckMode

The license check mode. Defaults to Online.

Declaration

public string CheckMode { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

ConsumerTenantId

The license consumer tenant id.

Declaration

public string ConsumerTenantId { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

HttpClientName

The HTTP client name for Online checks.

Declaration

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

Property Value

ТУРЕ	DESCRIPTION
System.String	

Remarks

The name must match the AddLicensingClient(ICliBuilder, String, TimeSpan)

KeySource

The license key source. Defaults to JsonFile.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.String	

LicenseKey

The license key or the file containing license key.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.String	

ProviderId

The license SaaS provider id or the provider tenant id.

Declaration

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

ТУРЕ	DESCRIPTION
System.String	

Subject

The subject or a licensing context to check the license. Your subscription id or any other domain identifier usually establishes your licensing context.

Declaration

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

ТУРЕ	DESCRIPTION
System.String	

Class LoggingOptions

The logging configuration options.

Inheritance

System.Object

LoggingOptions

LoggingOptions

Inherited Members

Logging Options. Obscure Error Argument String

Logging Options. Obsure Error Arguments

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: PerpetualIntelligence.Cli.Configuration.Options

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class LoggingOptions : LoggingOptions

Class TerminalOptions

The terminal configuration options.

Inheritance

System.Object

TerminalOptions

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: Perpetual Intelligence. Cli. Configuration. Options

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class TerminalOptions

Namespace PerpetualIntelligence.Cli.Extensions

Classes

${\color{red}\mathsf{CommandExtensions}}$

The System.Console extension methods.

ICliBuilderExtensions

The ICliBuilder extension methods.

IHostExtensions

 $The \ Microsoft. Extensions. Hosting. I Host \ extension \ methods.$

IServiceCollectionExtensions

 $The \ Microsoft. Extensions. Dependency Injection. IS ervice Collection\ extension\ methods.$

Class CommandExtensions

The System.Console extension methods.

Inheritance

System.Object

CommandExtensions

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: Perpetual Intelligence. Cli. Extensions

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public static class CommandExtensions

Methods

ReadAnswerAsync(Command, String, String[])

Prints the question to the console and reads an answer from the standard input stream.

Declaration

[WriteUnitTest]

public static Task<string> ReadAnswerAsync(this Command command, string question, params string[] answers)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Command	command	The command.
System.String	question	The question to print. The ? will be appended at the end.
System.String[]	answers	The allowed answers or null if all answers are allowed. It is recommended to keep the answers short for readability. If specified this method will print the answers with question in the format {question} {answer1}/{answer2}/{answer3}?

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < System. String >	The answer for the question or null if canceled.

Class ICliBuilderExtensions

The ICliBuilder extension methods.

Inheritance

System.Object

ICliBuilderExtensions

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: Perpetual Intelligence. Cli. Extensions

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public static class ICliBuilderExtensions

Methods

AddArgumentChecker<TMapper, TChecker>(ICliBuilder)

Adds the IArgumentDataTypeMapper and IArgumentChecker to the service collection.

Declaration

public static ICliBuilder AddArgumentChecker<TMapper, TChecker>(this ICliBuilder builder)
where TMapper: class, IArgumentDataTypeMapper where TChecker: class, IArgumentChecker

Parameters

ТУРЕ	NAME	DESCRIPTION
ICliBuilder	builder	The builder.

Returns

ТҮРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder.

Type Parameters

NAME	DESCRIPTION
TMapper	The argument mapper type.
TChecker	The argument checker type.

AddAuthentication<TProvider, TAppFactory, TAppCache, TDelegateHandler>(ICliBuilder, String, Nullable<Int32>)

Adds authentication to the service collection.

Declaration

public static ICliBuilder AddAuthentication<TProvider, TAppFactory, TAppCache, TDelegateHandler>(this ICliBuilder builder, string name, string baseAddress = null, int? timeout = 120000)

where TProvider : class, IAuthenticationProvider where TAppFactory : class,

 ${\tt IMsalPublicClientApplicationFactory\ where\ TAppCache\ :\ class,\ IClientCrossPlatformTokenCache\ where}$

TDelegateHandler : DelegatingHandler

Parameters

ТУРЕ	NAME	DESCRIPTION
ICliBuilder	builder	The builder.
System.String	name	The HTTP client name.
System.String	baseAddress	The HTTP base address. Specify null for no specific well known base address.
System.Nullable < System.Int32 >	timeout	The HTTP request timeout in milliseconds. Defaults to 2 minutes or 120000 milliseconds. We recommend a timeout of at least a few minutes, to take into account cases where the user is prompted to change password or perform 2FA.

Returns

	ТУРЕ	DESCRIPTION
	ICliBuilder	The configured ICliBuilder.

Type Parameters

NAME	DESCRIPTION
TProvider	The authentication provider.
TAppFactory	The authentication application factory.
TAppCache	The authentication application cache.
TDelegateHandler	The authentication application delegate handler.

Remarks

Use ClientCrossPlatformNoTokenCache if your application does not require token caching.

AddCliOptions(ICliBuilder)

Adds the CliOptions to the service collection.

Declaration

public static ICliBuilder AddCliOptions(this ICliBuilder builder)

Parameters

ТУРЕ	NAME	DESCRIPTION
ICliBuilder	builder	The builder.

Returns

ТҮРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder.

AddDescriptor<TRunner, TChecker>(ICliBuilder, CommandDescriptor, Boolean, Boolean, Boolean)

Adds the CommandDescriptor to the service collection.

Declaration

public static ICliBuilder AddDescriptor<TRunner, TChecker>(this ICliBuilder builder, CommandDescriptor
commandDescriptor, bool isGroup = false, bool isRoot = false, bool isProtected = false)
 where TRunner : class, ICommandRunner where TChecker : class, ICommandChecker

Parameters

TYPE	NAME	DESCRIPTION
ICliBuilder	builder	The builder.
CommandDescriptor	commandDescriptor	The command descriptor.
System.Boolean	isGroup	true if the descriptor represents a command group; otherwise, false.
System.Boolean	isRoot	true if the descriptor represents a command root; otherwise, false.
System.Boolean	isProtected	true if the descriptor represents a protected command; otherwise, false.

ТҮРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder.

Type Parameters

NAME	DESCRIPTION
TRunner	The command runner type.
TChecker	The command checker type.

AddDescriptorStore < TStore > (ICliBuilder)

Adds the ICommandDescriptorStore to the service collection.

Declaration

public static ICliBuilder AddDescriptorStore<TStore>(this ICliBuilder builder)
 where TStore : class, ICommandDescriptorStore

Parameters

ТҮРЕ	NAME	DESCRIPTION
ICliBuilder	builder	The builder.

Returns

ТУРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder.

Type Parameters

NAME	DESCRIPTION
TStore	The command descriptor store type.

AddErrorPublisher<TError, TException>(ICliBuilder)

Adds the IErrorPublisher and IExceptionPublisher to the service collection.

Declaration

public static ICliBuilder AddErrorPublisher<TError, TException>(this ICliBuilder builder)
where TError: class, IErrorPublisher where TException: class, IExceptionPublisher

Parameters

ТҮРЕ	NAME	DESCRIPTION
ICliBuilder	builder	The builder.

ТҮРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder.

Type Parameters

NAME	DESCRIPTION
TError	The IErrorPublisher type.
TException	The IExceptionPublisher type.

AddExtractor<TCommand, TArgument>(ICliBuilder)

Adds the ICommandExtractor and IArgumentExtractor to the service collection.

Declaration

public static ICliBuilder AddExtractor<TCommand, TArgument>(this ICliBuilder builder)
 where TCommand : class, ICommandExtractor where TArgument : class, IArgumentExtractor

Parameters

ТУРЕ	NAME	DESCRIPTION
ICliBuilder	builder	The builder.

Returns

ТУРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder.

Type Parameters

NAME	DESCRIPTION
TCommand	The command extractor type.
TArgument	The argument extractor type.

AddExtractor<TCommand, TArgument, TDefaultArgumentValue>(ICliBuilder)

Adds the ICommandExtractor, IArgumentExtractor and IDefaultArgumentValueProvider to the service collection.

Declaration

public static ICliBuilder AddExtractor<TCommand, TArgument, TDefaultArgumentValue>(this ICliBuilder builder)
 where TCommand: class, ICommandExtractor where TArgument: class, IArgumentExtractor where
TDefaultArgumentValue: class, IDefaultArgumentValueProvider

Parameters

ТҮРЕ	NAME	DESCRIPTION
ICliBuilder	builder	The builder.

Returns

ТҮРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder.

Type Parameters

NAME	DESCRIPTION
TCommand	The command extractor type.
TArgument	The argument extractor type.
TDefaultArgumentValue	The argument default value provider type.

AddExtractor<TCommand, TArgument, TDefaultArgument, TDefaultArgumentValue>(ICliBuilder)

Adds the ICommandExtractor, IArgumentExtractor, IDefaultArgumentProvider and IDefaultArgumentValueProvider to the service collection.

Declaration

public static ICliBuilder AddExtractor<TCommand, TArgument, TDefaultArgument, TDefaultArgumentValue>(this ICliBuilder builder)

where TCommand : class, ICommandExtractor where TArgument : class, IArgumentExtractor where TDefaultArgument : class, IDefaultArgumentProvider where TDefaultArgumentValue : class, IDefaultArgumentValueProvider

Parameters

ТҮРЕ	NAME	DESCRIPTION
ICliBuilder	builder	The builder.

ТҮРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder.

NAME	DESCRIPTION	
TCommand	The command extractor type.	
TArgument	The argument extractor type.	
TDefaultArgument	The default argument provider type.	
TDefaultArgumentValue	The default argument value provider type.	

AddLicensing(ICliBuilder)

Adds pi-cli licensing to the service collection.

Declaration

public static ICliBuilder AddLicensing(this ICliBuilder builder)

Parameters

ТУРЕ	NAME	DESCRIPTION
ICliBuilder	builder	The builder.

Returns

ТУРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder.

AddLicensingClient(ICliBuilder, String, TimeSpan)

Adds a System.Net.Http.IHttpClientFactory to the service collection.

Declaration

public static ICliBuilder AddLicensingClient(this ICliBuilder builder, string name, TimeSpan timeout)

Parameters

ТҮРЕ	NAME	DESCRIPTION
ICliBuilder	builder	The builder.
System.String	name	The HTTP client name.
System.TimeSpan	timeout	The HTTP client timeout.

Returns

ТУРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder.

Remarks

The AddLicensingClient(ICliBuilder, String, TimeSpan) is required if you are using Online check. Please set the HttpClientName to match the name used to register this service.

AddRouter<TRouter, THandler>(ICliBuilder)

Adds the ICommandRouter and ICommandHandler to the service collection.

Declaration

public static ICliBuilder AddRouter<TRouter, THandler>(this ICliBuilder builder)
where TRouter : class, ICommandRouter where THandler : class, ICommandHandler

Parameters

ТҮРЕ	NAME	DESCRIPTION
ICliBuilder	builder	The builder.

Returns

ТҮРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder.

Type Parameters

NAME	DESCRIPTION
TRouter	
THandler	

$Add String Comparer (ICI Builder,\ String Comparison)$

 $\label{eq:Add-def} \mbox{Add the IStringComparer to the service collection.}$

Declaration

public static ICliBuilder AddStringComparer(this ICliBuilder builder, StringComparison stringComparison)

Parameters

ТУРЕ	NAME	DESCRIPTION
ICliBuilder	builder	The builder.

ТҮРЕ	NAME	DESCRIPTION	
System. String Comparison	stringComparison	The string comparison to use.	

ТУРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder.

Class IHostExtensions

The Microsoft.Extensions.Hosting.IHost extension methods.

Inheritance

System.Object

IHostExtensions

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: Perpetual Intelligence. Cli. Extensions

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public static class IHostExtensions

Methods

RunRouterAsync(IHost, String, Nullable < CancellationToken >)

Returns a task that runs the ICommandRouter and blocks the calling thread till a cancellation request.

Declaration

[WriteDocumentation("Add info about exception handling for ErrorException")]
public static async Task RunRouterAsync(this IHost host, string caret = null, CancellationToken?
cancellationToken = null)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft.Extensions.Hosting.IHost	host	The host.
System.String	caret	The command caret to show in the console.
System.Nullable < System.Threading.CancellationToken >	cancellationToken	The cancellation token.

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task	

Class IServiceCollectionExtensions

 $The \ Microsoft. Extensions. Dependency Injection. IS ervice Collection\ extension\ methods.$

Inheritance

System.Object

IServiceCollectionExtensions

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: Perpetual Intelligence. Cli. Extensions

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public static class IServiceCollectionExtensions

Methods

AddCli(IServiceCollection)

Adds the core pi-cli services.

Declaration

public static ICliBuilder AddCli(this IServiceCollection services)

Parameters

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

Returns

ТҮРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder instance.

AddCli(IServiceCollection, IConfiguration)

Adds the core pi-cli services.

Declaration

public static ICliBuilder AddCli(this IServiceCollection services, IConfiguration configuration)

Parameters

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

Returns

ТҮРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder instance.

AddCli(IServiceCollection, Action < CliOptions >)

Adds the core pi-cli services.

Declaration

public static ICliBuilder AddCli(this IServiceCollection services, Action<CliOptions> setupAction)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Extensions. Dependency Injection. I Service Collection	services	The services.
System.Action < CliOptions >	setupAction	The setup action.

Returns

ТҮРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder instance.

AddCliBuilder(IServiceCollection)

Adds the core ICliBuilder.

Declaration

public static ICliBuilder AddCliBuilder(this IServiceCollection services)

Parameters

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

ТҮРЕ	DESCRIPTION
ICliBuilder	The configured ICliBuilder instance.

Namespace PerpetualIntelligence.Cli.Integration

Classes

CliBuilder

The default ICliBuilder.

CliHostedService

The pi-cli hosted service to manage the application lifetime and terminal customization.

Interfaces

ICliBuilder

An abstraction of pi-cli service builder.

Class CliBuilder

The default ICliBuilder.

Inheritance

System.Object

CliBuilder

Implements

ICliBuilder

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: PerpetualIntelligence.Cli.Integration

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CliBuilder : ICliBuilder

Constructors

CliBuilder(IServiceCollection)

Initializes a new instance.

Declaration

public CliBuilder(IServiceCollection services)

Parameters

ТУРЕ	NAME	DESCRIPTION
Microsoft. Extensions. Dependency Injection. I Service Collection	services	The services.

Exceptions

ТҮРЕ	CONDITION
System.ArgumentNullException	services

Properties

Services

The service collection.

Declaration

public IServiceCollection Services { get; }

Property Value

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

Implements

ICliBuilder

Extension Methods

ICliBuilderExtensions.AddArgumentChecker < TMapper, TChecker > (ICliBuilder)

ICliBuilderExtensions.AddAuthentication<TProvider, TAppFactory, TAppCache, TDelegateHandler>(ICliBuilder, String, String, Nullable<Int32>)

ICliBuilderExtensions.AddCliOptions(ICliBuilder)

ICliBuilderExtensions.AddDescriptor<TRunner, TChecker> (ICliBuilder, CommandDescriptor, Boolean, Boolean, Boolean)

ICliBuilderExtensions.AddDescriptorStore<TStore>(ICliBuilder)

ICliBuilderExtensions.AddErrorPublisher<TError, TException>(ICliBuilder)

ICliBuilderExtensions.AddExtractor<TCommand, TArgument>(ICliBuilder)

ICliBuilderExtensions.AddExtractor<TCommand, TArgument, TDefaultArgumentValue>(ICliBuilder)

ICliBuilder Extensions. Add Extractor < TCommand, TArgument, TDefault Argument, TDefault Argument Value > (ICliBuilder)

ICliBuilderExtensions.AddLicensing(ICliBuilder)

ICliBuilderExtensions.AddLicensingClient(ICliBuilder, String, TimeSpan)

ICliBuilderExtensions.AddRouter<TRouter, THandler>(ICliBuilder)

ICliBuilderExtensions.AddStringComparer(ICliBuilder, StringComparison)

Class CliHostedService

The pi-cli hosted service to manage the application lifetime and terminal customization.

Inheritance

System.Object

CliHostedService

Implements

Microsoft.Extensions.Hosting.IHostedService

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: Perpetual Intelligence. Cli. Integration

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class CliHostedService : IHostedService

Constructors

CliHostedService(IHost, IHostApplicationLifetime, ILicenseExtractor, ILicenseChecker, CliOptions, ILogger<CliHostedService>)

Initializes a new instance.

Declaration

public CliHostedService(IHost host, IHostApplicationLifetime hostApplicationLifetime, ILicenseExtractor
licenseExtractor, ILicenseChecker licenseChecker, CliOptions cliOptions, ILogger<CliHostedService> logger)

Parameters

NAME	DESCRIPTION
host	The host.
host Application Lifetime	The host application lifetime.
licenseExtractor	The license extractor.
licenseChecker	The license checker.
cliOptions	The configuration options.
	host hostApplicationLifetime licenseExtractor licenseChecker

ТҮРЕ	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger < CliHostedService >	logger	The logger.

Methods

OnStarted()

Triggered when the pi-cli application host has fully started.

Declaration

protected virtual void OnStarted()

OnStopped()

Triggered when the pi-cli application host has completed a graceful shutdown. The application will not exit until all callbacks registered on this token have completed.

Declaration

protected virtual void OnStopped()

OnStopping()

Triggered when the pi-cli application host is starting a graceful shutdown. Shutdown will block until all callbacks registered on this token have completed.

Declaration

protected virtual void OnStopping()

PrintHostApplicationHeaderAsync()

Allows the host application to print the custom header.

Declaration

protected virtual Task PrintHostApplicationHeaderAsync()

Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task	

PrintHostApplicationLicensingAsync(License)

Allows host application to print custom licensing information.

Declaration

protected virtual Task PrintHostApplicationLicensingAsync(License license)

Parameters

ТҮРЕ	NAME	DESCRIPTION
License	license	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

Register Host Application Events Async (I Host Application Lifetime)

Allows the application to register its custom Microsoft.Extensions.Hosting.IHostApplicationLifetime events.

Declaration

protected virtual Task RegisterHostApplicationEventsAsync(IHostApplicationLifetime hostApplicationLifetime)

Parameters

ТУРЕ	NAME	DESCRIPTION
Microsoft.Extensions.Hosting.IHostApplicationLifetime	hostApplicationLifetime	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

StartAsync(CancellationToken)

Starts the pi-cli hosted service asynchronously.

Declaration

public async Task StartAsync(CancellationToken cancellationToken)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Threading.CancellationToken	cancellationToken	The cancellation token.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

StopAsync(CancellationToken)

Stops the pi-cli hosted service asynchronously.

Declaration

public Task StopAsync(CancellationToken cancellationToken)

Parameters

ТҮРЕ	NAME	DESCRIPTION

ТҮРЕ	NAME	DESCRIPTION
System. Threading. Cancellation Token	cancellationToken	The cancellation token.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

Implements

 ${\it Microsoft.} Extensions. Hosting. I Hosted Service$

Interface ICliBuilder

An abstraction of pi-cli service builder.

Name space: Perpetual Intelligence. Cli. Integration

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface ICliBuilder

Properties

Services

The service collection.

Declaration

IServiceCollection Services { get; }

Property Value

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

Extension Methods

ICliBuilderExtensions.AddArgumentChecker < TMapper, TChecker > (ICliBuilder)

ICliBuilderExtensions.AddAuthentication<TProvider, TAppFactory, TAppCache, TDelegateHandler>(ICliBuilder, String, String, Nullable<Int32>)

ICliBuilderExtensions.AddCliOptions(ICliBuilder)

ICliBuilderExtensions.AddDescriptor<TRunner, TChecker>(ICliBuilder, CommandDescriptor, Boolean, Boolean, Boolean)

ICliBuilderExtensions.AddDescriptorStore < TStore > (ICliBuilder)

ICliBuilderExtensions.AddErrorPublisher<TError, TException>(ICliBuilder)

ICliBuilderExtensions.AddExtractor<TCommand, TArgument>(ICliBuilder)

ICliBuilder Extensions. Add Extractor < TCommand, TArgument, TDefault Argument Value > (ICliBuilder), TDefault Argume

ICliBuilder Extensions. Add Extractor < TCommand, TArgument, TDefault Argument, TDefault Argument Value > (ICliBuilder)

ICliBuilderExtensions.AddLicensing(ICliBuilder)

ICliBuilderExtensions.AddLicensingClient(ICliBuilder, String, TimeSpan)

ICliBuilderExtensions.AddRouter<TRouter, THandler>(ICliBuilder)

ICliBuilderExtensions.AddStringComparer(ICliBuilder, StringComparison)

Namespace PerpetualIntelligence.Cli.Licensing

LicenseCheckerContext
The default ILicenseChecker context.
LicenseCheckerResult
The default ILicenseChecker result.
LicenseExtractor
The default ILicenseExtractor
LicenseExtractorContext
The default ILicenseChecker context.
LicenseExtractorResult
The default ILicenseChecker result.
LicenseLimits
Defines the licensing limits based on the SaaSPlans.
LicenseProviderResolver
The default ILicenseProviderResolver.
Interfaces
ILicenseChecker
An abstraction to check the License object.
ILicenseExtractor
An abstraction to extract the software License.

ILicenseProviderResolver

An abstraction to resolve the license provider.

The default ILicenseChecker for all pi-cli features.

Classes

License

A pi-cli license.

LicenseChecker

Interface ILicenseChecker

An abstraction to check the License object.

Inherited Members

 $IChecker < License Checker Context, \ License Checker Result > . Check A sync (License Checker Context)$

Namespace: Perpetual Intelligence. Cli. Licensing

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface ILicenseChecker : IChecker<LicenseCheckerContext, LicenseCheckerResult>

Interface ILicenseExtractor

An abstraction to extract the software License.

Inherited Members

 $IExtractor < License Extractor Context, \ License Extractor Result > . Extract A sync (License Extractor Context)$

Namespace: Perpetual Intelligence. Cli. Licensing

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface ILicenseExtractor : IExtractor<LicenseExtractorContext, LicenseExtractorResult>

Methods

GetLicenseAsync()

Gets the extracted license asynchronously.

Declaration

Task<License> GetLicenseAsync()

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <license></license>	

Interface ILicenseProviderResolver

An abstraction to resolve the license provider.

Namespace: Perpetual Intelligence. Cli. Licensing

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public interface ILicenseProviderResolver

Methods

ResolveAsync(String)

Resolves the provider and returns the provider identifier.

Declaration

Task<string> ResolveAsync(string resolveId)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	resolveld	The resolve identifier.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < System. String >	The resolved identifier.

Class License

A pi-cli license.

Inheritance

System.Object

System.ComponentModel.License

License

Implements

System.IDisposable

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: PerpetualIntelligence.Cli.Licensing

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public sealed class License : License, IDisposable

Constructors

License(String, String, String, String, String, LicenseClaimsModel, LicenseLimits)

Initialize a new instance.

Declaration

public License(string providerTenantId, string checkMode, string plan, string usage, string licenseKeySource, string licenseKey, LicenseClaimsModel claims, LicenseLimits limits)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	providerTenantId	The license provider tenant id.
System.String	checkMode	The license check mode.
System.String	plan	The license plan.
System.String	usage	The license usage.
System.String	licenseKeySource	

ТУРЕ	NAME	DESCRIPTION
System.String	licenseKey	The license key.
LicenseClaimsModel	claims	The license claims.
LicenseLimits	limits	The license limits.

Properties

CheckMode

The license check mode.

Declaration

```
public string CheckMode { get; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Claims

The license claims.

Declaration

```
public LicenseClaimsModel Claims { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
LicenseClaimsModel	

LicenseKey

The license key.

Declaration

```
public override string LicenseKey { get; }
```

Property Value

· · · · · · · · · · · · · · · · · · ·		
ТУРЕ	DESCRIPTION	
System.String		

Overrides

System. Component Model. License. License Key

LicenseKeySource

The license key source.

Declaration

public string LicenseKeySource { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Limits

The license limits.

Declaration

public LicenseLimits Limits { get; }

Property Value

ТУРЕ	DESCRIPTION
LicenseLimits	

Plan

The license plan.

Declaration

public string Plan { get; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

ProviderId

The license provider tenant id.

Declaration

public string ProviderId { get; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

Usage

The license usage.

Declaration

public string Usage { get; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

Methods

Dispose()

Disposes the license.

Declaration

public override void Dispose()

Overrides

System. Component Model. License. Dispose ()

Implements

System.IDisposable

Class LicenseChecker

The default ILicenseChecker for all pi-cli features.

Inheritance

System.Object

LicenseChecker

Implements

ILicenseChecker

IChecker < LicenseCheckerContext, LicenseCheckerResult >

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: Perpetual Intelligence. Cli. Licensing

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public sealed class LicenseChecker : ILicenseChecker, IChecker<LicenseCheckerContext, LicenseCheckerResult>

Constructors

LicenseChecker(IEnumerable < CommandDescriptor > , CliOptions, ILogger < LicenseChecker >)

Initializes a new instance.

Declaration

public LicenseChecker(IEnumerable<CommandDescriptor> commandDescriptors, CliOptions cliOptions,
ILogger<LicenseChecker> logger)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Collections.Generic.IEnumerable < CommandDescriptor >	commandDescriptors	
CliOptions	cliOptions	
Microsoft.Extensions.Logging.ILogger <licensechecker></licensechecker>	logger	

Properties

Initialized

Determines whether the checker is initialized.

Declaration

public bool Initialized { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

Methods

Check A sync (License Checker Context)

Checks the licensing context.

Declaration

public async Task<LicenseCheckerResult> CheckAsync(LicenseCheckerContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
LicenseCheckerContext	context	The licensing context.

Returns

ТУРЕ	DESCRIPTION
System.Threading.Tasks.Task <licensecheckerresult></licensecheckerresult>	

Exceptions

ТУРЕ	CONDITION
System.NotImplementedException	

Implements

ILicenseChecker

IChecker < TContext, TResult>

Class LicenseCheckerContext

The default ILicenseChecker context.

Inheritance

System.Object

LicenseCheckerContext

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: PerpetualIntelligence.Cli.Licensing

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class LicenseCheckerContext

Constructors

LicenseCheckerContext(License)

Initialize a new instance.

Declaration

public LicenseCheckerContext(License license)

Parameters

ТУРЕ	NAME	DESCRIPTION
License	license	

Properties

License

The license to check.

Declaration

public License License { get; }

Property Value

ТУРЕ	DESCRIPTION
License	

Class LicenseCheckerResult

The default ILicenseChecker result.

Inheritance

System.Object

LicenseCheckerResult

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: PerpetualIntelligence.Cli.Licensing

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class LicenseCheckerResult

Constructors

LicenseCheckerResult(License)

Initializes a new instance.

Declaration

public LicenseCheckerResult(License license)

Parameters

ТҮРЕ	NAME	DESCRIPTION
License	license	The checked license.

Properties

ArgumentCount

The argument count.

Declaration

public long ArgumentCount { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.Int64	

${\sf CommandGroupCount}$

The command group count.

Declaration

nuhlic	long	CommandGroupCount	{	get:	set:	}
public	TOLIS	commandor oupcourre	ι	get,	ر ۲ ت	5

Property Value

ТУРЕ	DESCRIPTION
System.Int64	

License

The valid license.

Declaration

```
public License License { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
License	

RootCommandCount

The root command count.

Declaration

```
public long RootCommandCount { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

SubCommandCount

The sub command count.

Declaration

```
public long SubCommandCount { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

Class LicenseExtractor

The default ILicenseExtractor

Inheritance

System.Object

LicenseExtractor

Implements

ILicenseExtractor

IExtractor < License Extractor Context, License Extractor Result >

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: PerpetualIntelligence.Cli.Licensing

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public sealed class LicenseExtractor : ILicenseExtractor, IExtractor<LicenseExtractorContext, LicenseExtractorResult>

Constructors

LicenseExtractor(ILicenseProviderResolver, CliOptions, IHttpClientFactory)

Initialize a new instance.

Declaration

public LicenseExtractor(ILicenseProviderResolver licenseProviderResolver, CliOptions cliOptions,
IHttpClientFactory httpClientFactory = null)

Parameters

ТҮРЕ	NAME	DESCRIPTION
ILicenseProviderResolver	licenseProviderResolver	The license provider resolver.
CliOptions	cliOptions	The configuration options.
System.Net.Http.IHttpClientFactory	httpClientFactory	The optional HTTP client factory

Methods

 ${\sf ExtractAsync}({\sf LicenseExtractorContext})$

Extracts the License from the license keys.

Declaration

Parameters

ТҮРЕ	NAME	DESCRIPTION
LicenseExtractorContext	context	

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <licenseextractorresult></licenseextractorresult>	

GetLicenseAsync()

Gets the extracted license asynchronously.

Declaration

public Task<License> GetLicenseAsync()

Returns

ТУРЕ	DESCRIPTION
System.Threading.Tasks.Task <license></license>	

Implements

ILicenseExtractor

IExtractor < TContext, TResult >

Class LicenseExtractorContext

The default ILicenseChecker context.

Inheritance

System.Object

LicenseExtractorContext

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: PerpetualIntelligence.Cli.Licensing

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class LicenseExtractorContext

Constructors

LicenseExtractorContext()

Initialize a new instance.

Declaration

public LicenseExtractorContext()

Class LicenseExtractorResult

The default ILicenseChecker result.

Inheritance

System.Object

LicenseExtractorResult

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: PerpetualIntelligence.Cli.Licensing

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class LicenseExtractorResult

Constructors

LicenseExtractorResult(License)

Initializes a new instance.

Declaration

public LicenseExtractorResult(License license)

Parameters

ТУРЕ	NAME	DESCRIPTION
License	license	The extracted license.

Properties

License

The valid licenses.

Declaration

public License License { get; }

Property Value

ТУРЕ	DESCRIPTION
License	

Class LicenseLimits

Defines the licensing limits based on the SaaSPlans.

Inheritance

System.Object

LicenseLimits

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: PerpetualIntelligence.Cli.Licensing

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public sealed class LicenseLimits

Properties

ArgumentLimit

The maximum arguments or options. Defaults to null or no limit.

Declaration

public long? ArgumentLimit { get; }

Property Value

Т	УРЕ	DESCRIPTION
S	system.Nullable < System.Int64 >	

Command Group Limit

The maximum command groups. Defaults to null or no limit.

Declaration

public int? CommandGroupLimit { get; }

Property Value

TYI	PE	DESCRIPTION
Sys	tem.Nullable < System.Int32 >	

DataTypeChecks

Supports the command argument data type checks. Defaults to null or no data type checks.

Declaration

public string[] DataTypeChecks { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String[]	

DefaultArgument

Supports the default command argument. Defaults to false or no default arguments.

Declaration

```
public bool DefaultArgument { get; }
```

Property Value

ТУРЕ	DESCRIPTION
System.Boolean	

DefaultArgumentValue

Supports the default argument value. Defaults to false or no default argument value.

Declaration

```
public bool DefaultArgumentValue { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

ErrorHandling

The maximum sub commands. Defaults to null or no limit.

Declaration

```
public string[] ErrorHandling { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String[]	

Plan

The SaaS plan.

Declaration

```
public string Plan { get; }
```

Property Value

ТҮРЕ	DESCRIPTION

ТҮРЕ	DESCRIPTION
System.String	

RedistributionLimit

The maximum sub commands. Defaults to null or no redistribution limit.

Declaration

```
public long? RedistributionLimit { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Nullable < System.Int64 >	

RootCommandLimit

The maximum root commands. Defaults to null or no limit.

Declaration

```
public int? RootCommandLimit { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Nullable < System.Int32 >	

ServiceImplementations

The maximum sub commands. Defaults to null or no redistributions.

Declaration

```
public string[] ServiceImplementations { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String[]	

Stores

The maximum sub commands. Defaults to null or no redistributions.

Declaration

```
public string[] Stores { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String[]	

${\sf StrictDataType}$

The maximum sub commands. Defaults to null or no limit.

Declaration

public bool StrictDataType { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

SubCommandLimit

The maximum sub commands. Defaults to null or no limit.

Declaration

public long? SubCommandLimit { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Nullable < System.Int64 >	

UnicodeSupport

The maximum sub commands. Defaults to null or no limit.

Declaration

public string[] UnicodeSupport { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String[]	

Methods

Create(String)

Creates a new instance of LicenseLimits based on the specified SaaS plan.

Declaration

public static LicenseLimits Create(string saasPlan)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	saasPlan	The SaaS plan.

Returns

ТҮРЕ	DESCRIPTION
LicenseLimits	

Class LicenseProviderResolver

The default ILicenseProviderResolver.

Inheritance

System.Object

LicenseProviderResolver

Implements

ILicenseProviderResolver

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: PerpetualIntelligence.Cli.Licensing

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class LicenseProviderResolver : ILicenseProviderResolver

Methods

ResolveAsync(String)

Resolves the provider and returns the provider identifier.

Declaration

public Task<string> ResolveAsync(string resolveId)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	resolveId	The resolve identifier.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < System. String >	The resolved identifier.

Implements

ILicenseProviderResolver

Namespace PerpetualIntelligence.Cli.Services

Classes

 ${\sf ConsoleHelper}$

The System.Console helper methods.

Structs

ConsoleClearPosition

Defines the positioning data to clear the console output.

Struct ConsoleClearPosition

Defines the positioning data to clear the console output.

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)

Name space: Perpetual Intelligence. Cli. Services

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public struct ConsoleClearPosition

Fields

Left

The left cursor clear position.

Declaration

public int Left

Field Value

ТУРЕ	DESCRIPTION
System.Int32	

Length

The length of output to clear.

Declaration

public int Length

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

Top

The top cursor clear position.

Declaration

public int Top

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

Class ConsoleHelper

The System.Console helper methods.

Inheritance

System.Object

ConsoleHelper

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: PerpetualIntelligence.Cli.Services

Assembly: PerpetualIntelligence.Cli.dll

Syntax

[WriteUnitTest]

public static class ConsoleHelper

Methods

ClearOutput(ConsoleClearPosition)

Clears the written output for the specified position.

Declaration

public static void ClearOutput(ConsoleClearPosition clearPosition)

Parameters

ТҮРЕ	NAME	DESCRIPTION
ConsoleClearPosition	clearPosition	The console clear position.

GetClearPosition(Int32)

Gets the ConsoleClearPosition for the specified output length.

Declaration

public static ConsoleClearPosition GetClearPosition(int length)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	length	The output length to clear.

Returns

ТҮРЕ	DESCRIPTION
ConsoleClearPosition	ConsoleClearPosition object with System.Console.CursorLeft, System.Console.CursorTop and specified length.

WriteColor(ConsoleColor, String, Object[])

Writes the specified string with specified color to the standard output stream.

Declaration

public static void WriteColor(ConsoleColor color, string value, params object[] args)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.ConsoleColor	color	
System.String	value	
System.Object[]	args	

Remarks

WriteColor(ConsoleColor, String, Object[]) resets the color after writing the string using System.Console.ResetColor() method.

WriteLineColor(ConsoleColor, String, Object[])

Writes the specified string with specified color followed by the current line terminator to the standard output stream.

Declaration

public static void WriteLineColor(ConsoleColor color, string value, params object[] args)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.ConsoleColor	color	
System.String	value	
System.Object[]	args	

Remarks

 $WriteLineColor(ConsoleColor, String, Object[])\ resets\ the\ color\ after\ writing\ the\ string\ using\ System. Console. ResetColor()\ method.$

Namespace PerpetualIntelligence.Cli.Stores.InMemory

Classes

In Memory Command Descriptor Store

The default in-memory ICommandDescriptorStore.

Class InMemoryCommandDescriptorStore

The default in-memory ICommandDescriptorStore.

Inheritance

System.Object

In Memory Command Descriptor Store

Implements

ICommandDescriptorStore

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: PerpetualIntelligence.Cli.Stores.InMemory

Assembly: PerpetualIntelligence.Cli.dll

Syntax

public class InMemoryCommandDescriptorStore : ICommandDescriptorStore

Constructors

In Memory Command Descriptor Store (IString Comparer, IE numerable < Command Descriptor > , Cli Options, ILogger < In Memory Command Descriptor Store >)

Initialize a new instance.

Declaration

public InMemoryCommandDescriptorStore(IStringComparer stringComparer, IEnumerable<CommandDescriptor>
commandDescriptors, CliOptions options, ILogger<InMemoryCommandDescriptorStore> logger)

Parameters

ТУРЕ	NAME	DESCRIPTION
IStringComparer	stringComparer	The string comparer.
System.Collections.Generic.IEnumerable < CommandDescriptor >	commandDescriptors	The command identities.
CliOptions	options	The configuration options.
Microsoft.Extensions.Logging.ILogger < In Memory Command Descriptor Store >	logger	The logger.

Methods

TryFindByIdAsync(String)

Attempts to finds a CommandDescriptor by its id

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Declaration

public Task<TryResultOrError<CommandDescriptor>> TryFindByIdAsync(string id)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	The command id.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tryresultorerror<commanddescriptor>></tryresultorerror<commanddescriptor>	

TryFindByNameAsync(String)

Attempts to find a a CommandDescriptor by its name.

Declaration

public Task<TryResultOrError<CommandDescriptor>> TryFindByNameAsync(string name)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	name	The command name.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Try Result Or Error < Command Descriptor > >	

TryFindByPrefixAsync(String)

Attempts to find a a CommandDescriptor by its prefix.

Declaration

public Task<TryResultOrError<CommandDescriptor>> TryFindByPrefixAsync(string prefix)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	prefix	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Try Result Or Error < Command Descriptor > >	

TryMatchByPrefixAsync(String)

Attempts to match a a CommandDescriptor by its prefix.

Declaration

public Task<TryResultOrError<CommandDescriptor>> TryMatchByPrefixAsync(string prefix)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	prefix	

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tryresultorerror<commanddescriptor>></tryresultorerror<commanddescriptor>	

Implements

ICommand Descriptor Store

Namespace PerpetualIntelligence.Protocols

Classes

Constants

Defines the supported protocols.

Class Constants

Defines the supported protocols.

Inheritance

System.Object

Constants

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: PerpetualIntelligence.Protocols

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public static class Constants

Fields

Cli

The Perpetual Intelligence's cli protocol.

Declaration

public const string Cli = "cli"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

CliUrn

The Perpetual Intelligence's cli protocol.

Declaration

public const string CliUrn = "urn:oneimlx:cli"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

OneImlx

The Perpetual Intelligence's oneimlx protocol.

Declaration

public const string OneImlx = "oneimlx"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

OneImlxUrn

The Perpetual Intelligence's $\fbox{oneimlx}$ protocol.

Declaration

public const string OneImlxUrn = "urn:oneimlx"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Namespace PerpetualIntelligence.Protocols.Abstractions

Interfaces

IChecker<TContext, TResult>

An abstraction of a context specific checker.

IExtractor<TContext, TResult>

An abstraction of a context specific extractor.

IFormatter<TContext, TResult>

An abstraction of a context specific formatter.

IHandler<TContext, TResult>

An abstraction of a context specific handler.

IMapper<TContext, TResult>

An abstraction of a context specific mapper.

IProcessor<TContext>

An abstraction of context specific processor.

IProducer<TContext, TResult>

An abstraction of a context specific result producer.

IProvider<TContext, TResult>

An abstraction of context specific provider.

IPublisher<TContext, TResult>

An abstraction of context specific publisher.

IPublisherNoResult<TContext>

An abstraction of a context specific publisher with no explicit result.

IRecorder<TContext, TResult>

An abstraction of a context specific recorder.

IRouter<TContext, TResult, THandler>

An abstraction of a context specific router.

IRunner<TContext, TResult>

An abstraction of a context specific runner.

ISubscriber < TContext, TResult >

An abstraction of a context specific subscriber.

Interface IChecker<TContext, TResult>

An abstraction of a context specific checker.

Name space: Perpetual Intelligence. Protocols. Abstractions

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IChecker<TContext, TResult>
 where TContext : class where TResult : class

Type Parameters

NAME	DESCRIPTION
TContext	The checker context.
TResult	The checker result.

Methods

CheckAsync(TContext)

Checks the context asynchronously.

Declaration

Task<TResult> CheckAsync(TContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
TContext	context	The checker context.

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < TResult >	The checker result.

Interface IExtractor<TContext, TResult>

An abstraction of a context specific extractor.

Name space: Perpetual Intelligence. Protocols. Abstractions

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IExtractor<TContext, TResult>
 where TContext : class where TResult : class

Type Parameters

NAME	DESCRIPTION
TContext	The extractor context.
TResult	The extractor result.

Methods

ExtractAsync(TContext)

Extracts from a context asynchronously.

Declaration

Task<TResult> ExtractAsync(TContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
TContext	context	The extractor context.

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < TResult >	The extractor result.

Interface IFormatter<TContext, TResult>

An abstraction of a context specific formatter.

Name space: Perpetual Intelligence. Protocols. Abstractions

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IFormatter<TContext, TResult>
 where TContext : class where TResult : class

Type Parameters

NAME	DESCRIPTION
TContext	The checker context.
TResult	The checker result.

Methods

FormatAsync(TContext)

Formats the context asynchronously.

Declaration

Task<TResult> FormatAsync(TContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
TContext	context	The formatter context.

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < TResult >	The formatter result.

Interface IHandler<TContext, TResult>

An abstraction of a context specific handler.

Name space: Perpetual Intelligence. Protocols. Abstractions

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IHandler<TContext, TResult>
 where TContext : class where TResult : class

Type Parameters

NAME	DESCRIPTION
TContext	The handler context.
TResult	The handler result.

Methods

HandleAsync(TContext)

Handles the context.

Declaration

Task<TResult> HandleAsync(TContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
TContext	context	The handler context.

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < TResult >	The handler result.

Interface IMapper<TContext, TResult>

An abstraction of a context specific mapper.

Name space: Perpetual Intelligence. Protocols. Abstractions

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

<pre>public interface IMapper<tcontext, tresult=""></tcontext,></pre>	
where TContext : class where TResult : class	

Type Parameters

NAME	DESCRIPTION
TContext	
TResult	

Methods

MapAsync(TContext)

Maps asynchronously.

Declaration

Task<TResult> MapAsync(TContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
TContext	context	The producer context.

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tresult></tresult>	

Interface IProcessor < TContext >

An abstraction of context specific processor.

Name space: Perpetual Intelligence. Protocols. Abstractions

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IProcessor<TContext>
 where TContext : class

Type Parameters

NAME	DESCRIPTION
TContext	The processor context.

Methods

ProcessAsync(TContext)

Processes asynchronously.

Declaration

Task ProcessAsync(TContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
TContext	context	The processor context.

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

Interface IProducer<TContext, TResult>

An abstraction of a context specific result producer.

Name space: Perpetual Intelligence. Protocols. Abstractions

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

<pre>public interface IProducer<tcontext, tresult=""></tcontext,></pre>
where TContext : class where TResult : class

Type Parameters

NAME	DESCRIPTION
TContext	
TResult	

Methods

ProduceAsync(TContext)

Produces the result asynchronously.

Declaration

Task<TResult> ProduceAsync(TContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
TContext	context	The producer context.

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

Interface IProvider < TContext, TResult >

An abstraction of context specific provider.

Name space: Perpetual Intelligence. Protocols. Abstractions

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IProvider<TContext, TResult>
 where TContext : class where TResult : class

Type Parameters

NAME	DESCRIPTION
TContext	The provider context.
TResult	The provider result.

Methods

ProvideAsync(TContext)

Provides asynchronously.

Declaration

Task<TResult> ProvideAsync(TContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
TContext	context	The provider context.

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

Interface IPublisher<TContext, TResult>

An abstraction of context specific publisher.

Name space: Perpetual Intelligence. Protocols. Abstractions

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IPublisher<TContext, TResult>
 where TContext : class where TResult : class

Type Parameters

NAME	DESCRIPTION
TContext	The publisher context.
TResult	The publisher context.

Methods

ProcessAsync(TContext)

Publishes asynchronously.

Declaration

Task<TResult> ProcessAsync(TContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
TContext	context	The publisher context.

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

Interface IPublisherNoResult<TContext>

An abstraction of a context specific publisher with no explicit result.

Name space: Perpetual Intelligence. Protocols. Abstractions

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IPublisherNoResult<TContext>
 where TContext : class

Type Parameters

NAME	DESCRIPTION
TContext	The publisher context.

Remarks

The IPublisherNoResult<TContext> does not return any result during publish. See IPublisher<TContext, TResult> for publisher with result.

Methods

PublishAsync(TContext)

Publishes asynchronously.

Declaration

Task PublishAsync(TContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
TContext	context	The publisher context.

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

Interface IRecorder<TContext, TResult>

An abstraction of a context specific recorder.

Name space: Perpetual Intelligence. Protocols. Abstractions

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IRecorder<TContext, TResult>
 where TContext : class where TResult : class

Type Parameters

NAME	DESCRIPTION	
TContext	The recorder context.	
TResult	The recorder result.	

Methods

RecordAsync<TEvent>(TContext)

Records asynchronously.

Declaration

Task<TResult> RecordAsync<TEvent>(TContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
TContext	context	The recorder context.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tresult></tresult>	The recorder result.

Type Parameters

NAME	DESCRIPTION
TEvent	

Interface IRouter<TContext, TResult, THandler>

An abstraction of a context specific router.

Name space: Perpetual Intelligence. Protocols. Abstractions

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IRouter<TContext, TResult, THandler>
 where TContext : class where TResult : class where THandler : class

Type Parameters

NAME	DESCRIPTION
TContext	
TResult	
THandler	

Methods

RouteAsync(TContext)

Routes the request asynchronously.

Declaration

Task<TResult> RouteAsync(TContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
TContext	context	The router context.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < TResult >	The router result.

TryFindHandlerAsync(TContext)

Finds a matching route handler for a request asynchronously.

Declaration

Task<TryResultOrError<THandler>> TryFindHandlerAsync(TContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION

ТҮРЕ	NAME	DESCRIPTION
TContext	context	The router context.

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Try Result Or Error < THandler > >	The request handler.

Interface IRunner<TContext, TResult>

An abstraction of a context specific runner.

Name space: Perpetual Intelligence. Protocols. Abstractions

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IRunner<TContext, TResult>
 where TContext : class where TResult : class

Type Parameters

.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	NAME	DESCRIPTION
	TContext	The runner context.
	TResult	The runner result.

Methods

RunAsync(TContext)

Runs a context asynchronously.

Declaration

Task<TResult> RunAsync(TContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
TContext	context	The runner context.

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < TResult >	The runner result.

Interface ISubscriber < TContext, TResult >

An abstraction of a context specific subscriber.

Name space: Perpetual Intelligence. Protocols. Abstractions

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface ISubscriber<TContext, TResult>
 where TContext : class where TResult : class

Type Parameters

NAME	DESCRIPTION
TContext	The subscriber context.
TResult	The subscriber result.

Methods

SubscribeAsync(TContext)

Subscribes asynchronously.

Declaration

Task<TResult> SubscribeAsync(TContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
TContext	context	The subscriber context.

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < TResult >	The subscriber result.

Namespace PerpetualIntelligence.Protocols.Abstractions.Authorization

Interfaces

IAuthHandler<TContext, TResult>

An abstraction of a generic OAuth and OpenID Connect request handler.

Interface IAuthHandler<TContext, TResult>

An abstraction of a generic OAuth and OpenID Connect request handler.

Inherited Members

IHandler < TContext, TResult > . Handle Async (TContext)

Name space: Perpetual Intelligence. Protocols. Abstractions. Authorization

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IAuthHandler<TContext, TResult> : IHandler<TContext, TResult> where TContext : class where
TResult : class

Type Parameters

NAME	DESCRIPTION
TContext	The handler context.
TResult	The handler result.

Remarks

An authorization server typically provides both authorization and authentication capabilities.

Properties

Disabled

Determines whether the handler is disabled.

Declaration

bool? Disabled { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Nullable < System.Boolean >	true is the handler is disabled, otherwise fasle.

EndpointId

Identifies an endpoint for this handler.

Declaration

string EndpointId { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	The endpoint identifier.

Redirect

Determines whether the handler issues a redirect callback.

Declaration

bool? Redirect { get; }			
-------------------------	--	--	--

Property Value

ТҮРЕ	DESCRIPTION
System.Nullable < System.Boolean >	true is the handler issues a redirect callback, otherwise fasle.

Namespace PerpetualIntelligence.Protocols.Abstractions.Comparers

Interfaces

IClaimComparer

An abstraction of System.Security.Claims.Claim comparer.

IStringComparer

An abstraction to compare System.String.

Interface IClaimComparer

An abstraction of System.Security.Claims.Claim comparer.

Inherited Members

System.Collections.Generic.IEqualityComparer < System.Security.Claims.Claim > .Equals(System.Security.Claims.Claim, System.Security.Claims.Claim)

System. Collections. Generic. I Equality Comparer < System. Security. Claims. Claim > . Get Hash Code (System. Security. Claims. Claim)

Name space: Perpetual Intelligence. Protocols. Abstractions. Comparers

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IClaimComparer : IEqualityComparer<Claim>

Interface IStringComparer

An abstraction to compare System.String.

Inherited Members

System.Collections.Generic.IEqualityComparer<System.String>.Equals(System.String, System.String) System.Collections.Generic.IEqualityComparer<System.String>.GetHashCode(System.String)

Namespace: PerpetualIntelligence.Protocols.Abstractions.Comparers

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IStringComparer : IEqualityComparer<string>

Properties

Comparison

System.StringComparison used to compare string.

Declaration

StringComparison Comparison { get; }

Property Value

ТҮРЕ		DESCRIPTION
System.StringC	omparison	

Namespace PerpetualIntelligence.Protocols.Abstractions.Concurrency

Interfaces

IThreadLock<T>

An abstraction to lock or release the concurrent thread execution.

Interface IThreadLock<T>

An abstraction to lock or release the concurrent thread execution.

Name space: Perpetual Intelligence. Protocols. Abstractions. Concurrency

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IThreadLock<T>

Type Parameters

NAME	DESCRIPTION
Т	The type requesting thread lock.

Methods

LockAsync(Int32)

Asynchronously lock the current thread for the specified time interval.

Declaration

Task<bool> LockAsync(int timeout)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	timeout	The timeout in millisecond.

Returns

ТУРЕ	DESCRIPTION
System.Threading.Tasks.Task <system.boolean></system.boolean>	true if the lock is acquired, false otherwise.

ReleaseAsync()

Asynchronously release the locked thread.

Declaration

Task ReleaseAsync()

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task	System.Threading.Tasks.Task instance.

Namespace PerpetualIntelligence.Protocols.Abstractions.Events

Interfaces

IEvent

The abstraction of an event in the publish/subscribe-style communication without requiring the components to explicitly be aware of each other.

IEventPublisher<TContext, TResult>

The abstraction to publish an IEvent in the publish/subscribe-style communication without requiring the components to explicitly be aware of each other.

IEventRecorder<TContext, TResult>

The abstraction to record an IEvent in the publish/subscribe-style communication without requiring the components to explicitly be aware of each other.

IEventSubscriber < TContext, TResult >

The abstraction to subscribe an IEvent in the publish/subscribe-style communication without requiring the components to explicitly be aware of each other.

Interface IEvent

The abstraction of an event in the publish/subscribe-style communication without requiring the components to explicitly be aware of each other.

Name space: Perpetual Intelligence. Protocols. Abstractions. Events

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IEvent

Properties

Name

The unique event name.

Declaration

string Name { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

See Also

IEventPublisher < TContext, TResult > IEventPublisher < TContext, TResult > IEventRecorder < TContext, TResult >

Interface IEventPublisher<TContext, TResult>

The abstraction to publish an IEvent in the publish/subscribe-style communication without requiring the components to explicitly be aware of each other.

Namespace: PerpetualIntelligence.Protocols.Abstractions.Events

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IEventPublisher<TContext, TResult>
 where TContext : class

Type Parameters

NAME	DESCRIPTION
TContext	
TResult	

Methods

CanPublishAsync(TContext)

Determines whether the IEventPublisher < TContext, TResult > can publish the specified event.

Declaration

Task<bool> CanPublishAsync(TContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
TContext	context	The event context.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <system.boolean></system.boolean>	

PublishAsync(TContext)

Publishes the specified event asynchronously.

Declaration

Task<TResult> PublishAsync(TContext evt)

Parameters

ТҮРЕ	NAME	DESCRIPTION
TContext	evt	The event context.

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tresult></tresult>	

See Also

IEvent

IEventSubscriber < TContext, TResult >

IEventRecorder < TContext, TResult >

Implementing event-based communication between micro-services (integration events)

Interface IEventRecorder < TContext, TResult >

The abstraction to record an IEvent in the publish/subscribe-style communication without requiring the components to explicitly be aware of each other.

Name space: Perpetual Intelligence. Protocols. Abstractions. Events

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IEventRecorder<TContext, TResult>
 where TContext : class where TResult : class

Type Parameters

NAME	DESCRIPTION
TContext	
TResult	

Methods

CanRecordAsync(TContext)

Determines whether the IEventRecorder < TContext, TResult > can record the specified event.

Declaration

Task<bool> CanRecordAsync(TContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
TContext	context	The event context.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <system.boolean></system.boolean>	

RecordAsync<TEvent>(TContext)

Records the specified event asynchronously.

Declaration

Task<TResult> RecordAsync<TEvent>(TContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
TContext	context	The event context to record.

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < TResult >	

Type Parameters

NAME	DESCRIPTION
TEvent	

See Also

IEvent

IEventPublisher<TContext, TResult>

IEventSubscriber < TContext, TResult >

Interface IEventSubscriber < TContext, TResult >

The abstraction to subscribe an IEvent in the publish/subscribe-style communication without requiring the components to explicitly be aware of each other.

Name space: Perpetual Intelligence. Protocols. Abstractions. Events

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IEventSubscriber<TContext, TResult>
 where TContext : class where TResult : class

Type Parameters

NAME	DESCRIPTION
TContext	
TResult	

Methods

CanSubscribeAsync(TContext)

Determines whether the IEventSubscriber < TContext, TResult > can subscribe the specified event.

Declaration

Task<bool> CanSubscribeAsync(TContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
TContext	context	The event context

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <system.boolean></system.boolean>	

SubscribeAsync(TContext)

Subscribes the specified event asynchronously.

Declaration

Task<TResult> SubscribeAsync(TContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
TContext	context	The event context subscribe.

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tresult></tresult>	

See Also

IEvent

IEventPublisher<TContext, TResult>

IEventRecorder < TContext, TResult >

Implementing event-based communication between micro-services (integration events)

Namespace PerpetualIntelligence.Protocols.Abstractions.Stores

Interfaces

IEntity

The abstraction of a persisted entity.

IEntityTenancy

Provides the tenancy information.

IMarketplaceEntity

An abstraction of a multi-tenant entity that establishes a commercial relationship between businesses, precisely provider and consumer. It is a typical model when a business or a company sells its products or services directly to other companies. The customers of a product or service are the users, collaborators, or employees within the consumer business.

IStore < TSC ontext, TMC ontext, TSR esult, TMR esult >

The abstraction of a back-end store.

IStoreMultipleResult<TEntity>

The abstraction of a store result that yields multiple entities.

IStoreSingleResult<TEntity>

The abstraction of a store result that yields a single entity.

ITrackedStore < TSContext, TMContext, TSResult, TMResult >

The abstraction of a back-end store that supports tracked operation.

Interface IEntity

The abstraction of a persisted entity.

Name space: Perpetual Intelligence. Protocols. Abstractions. Stores

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IEntity

Properties

ConcurrencyStamp

The optimistic concurrency stamp during updates.

Declaration

string ConcurrencyStamp { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

CreateStamp

The create stamp expressed in Coordinated Universal Time (UTC).

Declaration

DateTimeOffset? CreateStamp { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Nullable < DateTimeOffset >	

DeleteStamp

Delete request stamp of the entity expressed in the Coordinated Universal Time (UTC).

Declaration

DateTimeOffset? DeleteStamp { get; }

Property Value

ТУРЕ	DESCRIPTION
System.Nullable < DateTimeOffset >	

Disabled

The locked state.

Declaration

bool? Disabled { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Nullable < System.Boolean >	

Locked

The locked state.

Declaration

```
bool? Locked { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Nullable < System.Boolean >	

Name

The entity name.

Declaration

```
string Name { get; }
```

Property Value

ТҮРЕ	DESCRIPTION	
System.String		

Properties

The additional properties.

 ${\tt Declaration}$

```
Dictionary<string, string> Properties { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Collections.Generic.Dictionary < System.String, System.String >	

Tags

The tags.

Declaration

```
string[] Tags { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String[]	

${\tt UpdateStamp}$

The update time-stamp expressed in Coordinated Universal Time (UTC).

Declaration

DateTimeOffset? UpdateStamp { ge	
----------------------------------	--

Property Value

ТҮРЕ	DESCRIPTION
System.Nullable < DateTimeOffset >	

See Also

ITrackedStore < TSContext, TMContext, TSResult, TMResult>

Interface IEntityTenancy

	Provides	the	tenancy	inform	ation.
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Inherited Members

IEntity.ConcurrencyStamp

IEntity.CreateStamp

IEntity.DeleteStamp

IEntity.Disabled

IEntity.Locked

IEntity.Name

IEntity.Properties

IEntity.Tags

IEntity.UpdateStamp

Name space: Perpetual Intelligence. Protocols. Abstractions. Stores

 $Assembly: \ Perpetual Intelligence. Protocols. d II$

Syntax

public interface IEntityTenancy : IEntity

Properties

TenantId

The tenant identifier.

Declaration

string TenantId { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

TenantMode

The tenant mode.

Declaration

string TenantMode { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Interface IMarketplaceEntity

An abstraction of a multi-tenant entity that establishes a commercial relationship between businesses, precisely provider and consumer. It is a typical model when a business or a company sells its products or services directly to other companies. The customers of a product or service are the users, collaborators, or employees within the consumer business.

Namespace: PerpetualIntelligence.Protocols.Abstractions.Stores

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IMarketplaceEntity

Properties

ConsumerTenantId

The consumer tenant id.

Declaration

string ConsumerTenantId { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

ProviderTenantId

The provider tenant id.

Declaration

string ProviderTenantId { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

PublisherTenantId

The publisher tenant id.

Declaration

string PublisherTenantId { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Interface IStore<TSContext, TMContext, TSResult, TMResult>

The abstraction of a back-end store.

Name space: Perpetual Intelligence. Protocols. Abstractions. Stores

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IStore<TSContext, TMContext, TSResult, TMResult>
 where TSContext : class where TMContext : class where TSResult : class where TMResult : class

Type Parameters

NAME	DESCRIPTION
TSContext	The single entity context.
TMContext	The multiple entities context.
TSResult	The single entity result.
TMResult	The multiple entities result.

Methods

CreateAsync(TSContext)

Creates an entity in the back-end store asynchronously.

Declaration

Task<TSResult> CreateAsync(TSContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
TSContext	context	The create context.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < TSResult >	The create result.

DeleteAsync(TSContext)

Deletes an entity from the back-end store asynchronously.

Declaration

Task<TSResult> DeleteAsync(TSContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
TSContext	context	The delete context.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < TSResult >	The delete result.

FindAsync(TSContext)

Finds an entity in the back-end store asynchronously.

Declaration

Task<TSResult> FindAsync(TSContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
TSContext	context	The find context.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tsresult></tsresult>	The find result.

ListAsync(TMContext)

Lists the entities from the back-end store asynchronously.

Declaration

Task<TMResult> ListAsync(TMContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
TMContext	context	The list context.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tmresult></tmresult>	The list result.

LockAsync(TSContext)

Locks an entity in the back-end store asynchronously.

Declaration

Parameters

ТУРЕ	NAME	DESCRIPTION
TSContext	context	The lock context.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tsresult></tsresult>	The lock result.

PutAsync(TSContext)

Creates or updates an entity in the back-end store asynchronously.

Declaration

Task<TSResult> PutAsync(TSContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
TSContext	context	The put context.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tsresult></tsresult>	The put result.

ReplaceAsync(TSContext)

Replaces an entity in the back-end store asynchronously.

Declaration

Task<TSResult> ReplaceAsync(TSContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
TSContext	context	The replace context.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tsresult></tsresult>	The replace result.

Remarks

Replace is a delete and create operation of the same entity.

UnlockAsync(TSContext)

Unlocks an entity in the back-end store asynchronously.

Declaration

Task<TSResult> UnlockAsync(TSContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION
TSContext	context	The unlock context.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < TSResult >	The unlock result.

UpdateAsync(TSContext)

Updates an entity in the back-end store asynchronously.

Declaration

Task<TSResult> UpdateAsync(TSContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
TSContext	context	The update context.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tsresult></tsresult>	The update result.

See Also

IEntity

IStoreSingleResult<TEntity>

IStoreMultipleResult<TEntity>

ITrackedStore < TSContext, TMContext, TSResult, TMResult>

Interface IStoreMultipleResult<TEntity>

The abstraction of a store result that yields multiple entities.

Name space: Perpetual Intelligence. Protocols. Abstractions. Stores

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IStoreMultipleResult<TEntity>
 where TEntity : IEntity

Type Parameters

NAME	DESCRIPTION
TEntity	

Properties

ContinuationToken

The continuation token to get the next set of entities.

Declaration

string ContinuationToken { get; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

Result

The store entities.

Declaration

TEntity[] Result { get; }

Property Value

ТҮРЕ	DESCRIPTION
TEntity[]	

Interface IStoreSingleResult<TEntity>

The abstraction of a store result that yields a single entity.

Name space: Perpetual Intelligence. Protocols. Abstractions. Stores

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IStoreSingleResult<TEntity>
 where TEntity : IEntity

Type Parameters

NAME	DESCRIPTION
TEntity	

Properties

Result

The single entity.

Declaration

TEntity Result { get; }

Property Value

ТУРЕ	DESCRIPTION
TEntity	

See Also

IStoreMultipleResult<TEntity>

Interface ITrackedStore < TSContext, TMContext, TSResult, TMResult >

The abstraction of a back-end store that supports tracked operation.

Inherited Members

IStore < TSContext, TMContext, TSResult, TMResult > .CreateAsync(TSContext)

IStore < TSContext, TMContext, TSResult, TMResult > .DeleteAsync(TSContext)

IStore < TSContext, TMContext, TSResult, TMResult > .FindAsync(TSContext)

IStore < TSContext, TMContext, TSResult, TMResult > .ListAsync(TMContext)

IStore < TSContext, TMContext, TSResult, TMResult > .LockAsync(TSContext)

IStore < TSContext, TMContext, TSResult, TMResult > .PutAsync(TSContext)

IStore < TSContext, TMContext, TSResult, TMResult > .ReplaceAsync(TSContext)

IStore < TSContext, TMContext, TSResult, TMResult > . UnlockAsync(TSContext)

IStore < TSContext, TMContext, TSResult, TMResult > . UpdateAsync(TSContext)

Name space: Perpetual Intelligence. Protocols. Abstractions. Stores

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface ITrackedStore<TSContext, TMContext, TSResult, TMResult> : IStore<TSContext, TMContext,
TSResult, TMResult> where TSContext : class where TMContext : class where TSResult : class where TMResult :
class

Type Parameters

NAME	DESCRIPTION
TSContext	The single entity context.
TMContext	The multiple entity context.
TSResult	The single entity result.
TMResult	The multiple entities result.

Methods

ClearDeleteAsync(TSContext)

Removes or clears the entity deletion in the back-end store asynchronously.

Declaration

Task<TSResult> ClearDeleteAsync(TSContext context)

Parameters

ТУРЕ	NAME	DESCRIPTION

ТҮРЕ	NAME	DESCRIPTION
TSContext	context	The clear delete context.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < TSResult >	The clear delete result.

${\bf Mark Delete A sync} ({\sf TSC} ontext)$

Marks an entity for deletion in the back-end store asynchronously.

Declaration

Task<TSResult> MarkDeleteAsync(TSContext context)

Parameters

ТҮРЕ	NAME	DESCRIPTION
TSContext	context	The mark delete context.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tsresult></tsresult>	The mark delete result.

See Also

IStore < TSContext, TMContext, TSResult, TMResult>

Namespace PerpetualIntelligence.Protocols.Authorization

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AppTypes

The well-known app types.

ClaimTypes

The well known claims.

HeaderKeys

The well known header keys.

Policies

The authorization policies.

WellKnownBaseAddress

Defines a well known base address with associated HTTP client name.

Interfaces

IAppIdentifiers

An abstractions of application identifiers.

Class AppTypes

The well-known app types.

Inheritance

System.Object

AppTypes

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: Perpetual Intelligence. Protocols. Authorization

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public class AppTypes

Fields

CliApplication

The cli application.

Declaration

public const string CliApplication = "urn:oneimlx:apps:cliapp"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

ConsumerPortal

The consumer portal.

Declaration

public const string ConsumerPortal = "urn:oneimlx:apps:consumerportal"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

PublisherPortal

The publisher portal.

Declaration

public const string PublisherPortal = "urn:oneimlx:apps:publisherportal"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Undefined

The publisher portal.

Declaration

public const string Undefined = "urn:oneimlx:apps:undefined"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Class ClaimTypes

The well known claims.

Inheritance

System.Object

ClaimTypes

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: Perpetual Intelligence. Protocols. Authorization

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public class ClaimTypes

Fields

ConsumerObjectId

Indicates an acr consumer claim.

Declaration

public const string ConsumerObjectId = "urn:oneimlx:claims:coid"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

ConsumerTenantId

Indicates an acr consumer claim.

Declaration

public const string ConsumerTenantId = "urn:oneimlx:claims:ctid"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

ProviderTenantId

Indicates an acr provider claim.

Declaration

public const string ProviderTenantId = "urn:oneimlx:claims:rtid"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

PublisherTenantId

Indicates an acr publisher claim.

Declaration

public const string PublisherTenantId = "urn:oneimlx:claims:ptid"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Class HeaderKeys

The well known header keys.

Inheritance

System.Object

HeaderKeys

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: Perpetual Intelligence. Protocols. Authorization

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public class HeaderKeys

Fields

Appld

The x-oneimlx-app-id header key.

Declaration

public const string AppId = "x-oneimlx-app-id"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

AppType

The x-oneimlx-app-type header key.

Declaration

public const string AppType = "x-oneimlx-app-type"

Field Value

ТУРЕ	DESCRIPTION
System.String	

LoginObjectId

The x-oneimlx-login-objectid header key.

Declaration

public const string LoginObjectId = "x-oneimlx-login-object-id"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

LoginTenantId

The x-oneimlx-login-tenantid header key.

Declaration

public const string LoginTenantId = "x-oneimlx-login-tenant-id"

Field Value

ТУРЕ	DESCRIPTION
System.String	

Interface IAppIdentifiers

An abstractions of application identifiers.

Name space: Perpetual Intelligence. Protocols. Authorization

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public interface IAppIdentifiers

Methods

DefaultAsync(ClaimsPrincipal)

Sets the IAppIdentifiers service from the System. Security. Claims. Claims Principal. For client apps this can be used for singleton state container. For server apps this can be a no-ops as the service implementation will be transient or scoped.

Declaration

Task DefaultAsync(ClaimsPrincipal claimsPrincipal)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Security.Claims.ClaimsPrincipal	claimsPrincipal	

Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task	

GetAppIdAsync()

Gets the client app id.

Declaration

Task<string> GetAppIdAsync()

Returns

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

GetAppTypeAsync()

Gets the client app type.

Declaration

Task<string> GetAppTypeAsync()

Returns

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

${\sf GetConsumerObjectIdAsync()}$

Gets the login tenant id.

Declaration

Task<string> GetConsumerObjectIdAsync()

Returns

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

GetConsumerTenantIdAsync()

Gets the login tenant id.

Declaration

Task<string> GetConsumerTenantIdAsync()

Returns

ТУРЕ	DESCRIPTION
System.Threading.Tasks.Task < System.String >	

GetLoginObjectIdAsync()

Gets the login object id.

Declaration

Task<string> GetLoginObjectIdAsync()

Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < System. String >	

GetLoginTenantIdAsync()

Gets the login tenant id.

Declaration

Task<string> GetLoginTenantIdAsync()

Returns

ТУРЕ	DESCRIPTION
System.Threading.Tasks.Task < System.String >	

GetProviderTenantIdAsync()

Gets the provider tenant id.

Declaration

Task<string> GetProviderTenantIdAsync()

Returns

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

GetPublisherTenantIdAsync()

Gets the publisher tenant id.

Declaration

Task<string> GetPublisherTenantIdAsync()

Returns

ТУРЕ	DESCRIPTION
System.Threading.Tasks.Task < System.String >	

InitializeAsync(ClaimsPrincipal)

Initializes the IAppIdentifiers service from the System. Security. Claims. Claims Principal. For client apps this can be used for singleton state container. For server apps this can be a no-ops as the service implementation will be transient or scoped.

Declaration

Task InitializeAsync(ClaimsPrincipal claimsPrincipal)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Security.Claims.ClaimsPrincipal	claimsPrincipal	The claims principal.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

IsInitializedAsync(ClaimsPrincipal)

Determines whether the IAppIdentifiers is initialized.

Declaration

Task<bool> IsInitializedAsync(ClaimsPrincipal claimsPrincipal)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Security.Claims.ClaimsPrincipal	claimsPrincipal	

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

PopulateAsync(ClaimsPrincipal)

Populates the System.Security.Claims.ClaimsPrincipal with claims from IAppIdentifiers service.

Declaration

Task PopulateAsync(ClaimsPrincipal claimsPrincipal)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Security.Claims.ClaimsPrincipal	claimsPrincipal	

Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task	

ResetAsync()

Resets the IAppIdentifiers service for the next login.

Declaration

Task ResetAsync()

Returns

TYPE		DESCRIPTION
System.Threading.	Гasks.Task	

Class Policies

The authorization policies.

Inheritance

System.Object

Policies

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: Perpetual Intelligence. Protocols. Authorization

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public class Policies

Fields

Consumer

Consumer portal authorization policy.

Declaration

public const string Consumer = "urn:oneimlx:policies:consumer"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Publisher

Publisher portal authorization policy.

Declaration

public const string Publisher = "urn:oneimlx:policies:publisher"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Class WellKnownBaseAddress

Defines a well known base address with associated HTTP client name.

Inheritance

System.Object

WellKnownBaseAddress

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: Perpetual Intelligence. Protocols. Authorization

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public class WellKnownBaseAddress

Constructors

WellKnownBaseAddress(String, String)

Initialize a new instance.

Declaration

public WellKnownBaseAddress(string name, string baseAddress)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	name	The HTTP client name.
System.String	baseAddress	The base address.

Exceptions

ТҮРЕ	CONDITION	
System.ArgumentNullException		

Properties

BaseAddress

The base address.

Declaration

public string BaseAddress { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Name

The HTTP client name.

Declaration

<pre>public string Name { get; set; }</pre>

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Namespace PerpetualIntelligence.Protocols.Defaults.Comparers

Classes

OrderIndependentComparer

The default order independent comparer makes the order of values irrelevant. E.g., the "code id_token token" is equivalent to "code token id_token".

Class OrderIndependentComparer

The default order independent comparer makes the order of values irrelevant. E.g., the "code id_token token" is equivalent to "code token id_token".

Inheritance

System.Object

OrderIndependentComparer

Implements

System. Collections. Generic. I Equality Comparer < System. String >

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: Perpetual Intelligence. Protocols. Defaults. Comparers

 $Assembly: \ Perpetual Intelligence. Protocols. Defaults. d II$

Syntax

public class OrderIndependentComparer : IEqualityComparer<string>

Methods

Equals(String, String)

Determines whether the specified values are equal.

Declaration

public bool Equals(string x, string y)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	х	The string to compare to y .
System.String	у	The string to compare to \mathbf{x} .

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	true if the specified values are equal; otherwise, false.

GetHashCode(String)

Returns a hash code for the value.

Declaration

public int GetHashCode(string value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	value	The value for which a hash code is to be returned.

Returns

TYPE	DESCRIPTION
System.Int32	A hash code for the value, suitable for use in hashing algorithms and data structures like a hash table.

Implements

System. Collections. Generic. I Equality Comparer < T >

Namespace PerpetualIntelligence.Protocols.Defaults.Concurrency

Classes

SemaphoreSlimThreadLock<T>

The default IThreadLock<T> using System.Threading.SemaphoreSlim.

Class SemaphoreSlimThreadLock<T>

The default IThreadLock<T> using System.Threading.SemaphoreSlim.

Inheritance

System.Object

SemaphoreSlimThreadLock<T>

Implements

IThreadLock<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()

Name space: Perpetual Intelligence. Protocols. Defaults. Concurrency

 $Assembly: \ Perpetual Intelligence. Protocols. Defaults. d II$

Syntax

public class SemaphoreSlimThreadLock<T> : IThreadLock<T>

Type Parameters

NAME	DESCRIPTION
Т	The type requesting the thread lock.

Methods

LockAsync(Int32)

Asynchronously lock the current thread for the specified time interval.

Declaration

public Task<bool> LockAsync(int timeout)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Int32	timeout	The timeout in millisecond.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < System. Boolean >	true if the lock is acquired, false otherwise.

ReleaseAsync()

Asynchronously release the locked thread.

Declaration

public Task ReleaseAsync()			
----------------------------	--	--	--

Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task	System.Threading.Tasks.Task instance.

Implements

IThreadLock<T>

Namespace PerpetualIntelligence.Protocols.Licensing

SaaSCheck Modes

Defines the standard SaaS check modes.

SaaSKeySources

The SaaS key sources.

SaaSPlans

Defines the standard SaaS pricing plans.

SaaSProviders

Defines the standard SaaS providers.

SaaSUsages

The SaaS usage.

Class SaaSCheckModes

Defines the standard SaaS check modes.

Inheritance

System.Object

SaaSCheckModes

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: Perpetual Intelligence. Protocols. Licensing

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public class SaaSCheckModes

Fields

Offline

The license check is done offline via signed public keys. This is not yet supported.

Declaration

public const string Offline = "urn:oneimlx:lic:saascmode:offline"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

OfflineThenOnline

First check Offline then Online. This is not yet supported.

Declaration

public const string OfflineThenOnline = "urn:oneimlx:lic:saascmode:offthenon"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Online

The license check is done online via REST API.

Declaration

public const string Online = "urn:oneimlx:lic:saascmode:online"

Field Value

ТУРЕ	DESCRIPTION
System.String	

OnlineThenOffline

First check Online then Offline. This is not yet supported.

Declaration

public const string OnlineThenOffline = "urn:oneimlx:lic:saascmode:onthenoff"

Field Value

ТУРЕ	DESCRIPTION
System.String	

Methods

IsValid(String)

Determines if the check mode is valid.

Declaration

public static bool IsValid(string plan)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	plan	

Returns

ТУРЕ	DESCRIPTION
System.Boolean	true if the plan is valid; otherwise, false.

Class SaaSKeySources

The SaaS key sources.

Inheritance

System.Object

SaaSKeySources

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: Perpetual Intelligence. Protocols. Licensing

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public sealed class SaaSKeySources

Fields

JsonFile

The key source is a json file.

Declaration

public const string JsonFile = "urn:oneimlx:lic:ksource:jsonfile"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Methods

IsValid(String)

Determines if the key source is valid.

Declaration

public static bool IsValid(string keySource)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	keySource	

ТҮРЕ	DESCRIPTION

ТУРЕ	DESCRIPTION
System.Boolean	true if the key source is valid; otherwise, false.

Class SaaSPlans

Defines the standard SaaS pricing plans.

Inheritance

System.Object

SaaSPlans

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: Perpetual Intelligence. Protocols. Licensing

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public class SaaSPlans

Fields

Community

The community SaaS pricing plan.

Declaration

public const string Community = "urn:oneimlx:lic:saasplan:community"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Custom

The custom SaaS pricing plan.

Declaration

public const string Custom = "urn:oneimlx:lic:saasplan:custom"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Enterprise

The enterprise SaaS pricing plan.

Declaration

public const string Enterprise = "urn:oneimlx:lic:saasplan:enterprise"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

ISV

The ISV SaaS pricing plan.

Declaration

public const string ISV = "urn:oneimlx:lic:saasplan:isv"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

ISVU

The ISV unlimited SaaS pricing plan.

Declaration

public const string ISVU = "urn:oneimlx:lic:saasplan:isvu"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Micro

The solo or micro SaaS pricing plan.

Declaration

public const string Micro = "urn:oneimlx:lic:saasplan:micro"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

None

The neutral or no SaaS pricing plan.

Declaration

public const string None = "urn:oneimlx:lic:saasplan:none"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

SMB

The SMB SaaS pricing plan.

Declaration

public const string SMB = "urn:oneimlx:lic:saasplan:smb"

Field Value

ТУРЕ	DESCRIPTION
System.String	

Methods

IsValid(String)

Determines if the plan is valid.

Declaration

public static bool IsValid(string plan)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	plan	

ТУРЕ	DESCRIPTION
System.Boolean	true if the plan is valid; otherwise, false.

Class SaaSProviders

Defines the standard SaaS providers.

Inheritance

System.Object

SaaSProviders

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: Perpetual Intelligence. Protocols. Licensing

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public class SaaSProviders

Fields

PerpetualIntelligence

The registered licensing provider hosted by Perpetual Intelligence L.L.C.

Declaration

public const string PerpetualIntelligence = "urn:oneimlx:lic:saaspvdr:pi"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Methods

IsValid(String)

Determines if the provider is valid.

Declaration

public static bool IsValid(string pvdr)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	pvdr	

ТҮРЕ	DESCRIPTION

ТУРЕ	DESCRIPTION
System.Boolean	true if the plan is valid; otherwise, false.

Class SaaSUsages

The SaaS usage.

Inheritance

System.Object

SaaSUsages

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: Perpetual Intelligence. Protocols. Licensing

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public class SaaSUsages

Fields

CommercialBusiness

The commercial usage for an organization or business account.

Declaration

public const string CommercialBusiness = "urn:oneimlx:lic:saasusage:org"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

CommercialPersonal

The commercial usage for a personal or social account.

Declaration

public const string CommercialPersonal = "urn:oneimlx:lic:saasusage:per"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Educational

The community usage for educational account.

Declaration

public const string Educational = "urn:oneimlx:lic:saasusage:edu"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

None

The neutral or no SaaS usage plan.

Declaration

public const string None = "urn:oneimlx:lic:saasusage:none"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

RnD

The community test and demo usage for any account.

Declaration

public const string RnD = "urn:oneimlx:lic:saasusage:rnd"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Methods

IsValid(String)

Determines if the usage is valid.

Declaration

public static bool IsValid(string usage)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	usage	

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	true if the usage is valid; otherwise, false.

Namespace PerpetualIntelligence.Protocols.Licensing.Models

Classes

LicenseCheckModel

The jws B2B keys check model.

LicenseClaimsModel

Defines the licensing claims model.

LicenseKeyJsonFileModel

The jws B2B keys download model.

LicenseKeysModel

The jws B2B keys model.

License Provisioning Model

The license provisioning model.

Class LicenseCheckModel

The jws B2B keys check model.

Inheritance

System.Object

LicenseCheckModel

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: PerpetualIntelligence.Protocols.Licensing.Models

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public class LicenseCheckModel

Properties

AuthorizedApplicationId

The Authorized application. This is also one of the auth_apps claim value.

Declaration

```
[JsonPropertyName("authorized_application_id")]
public string AuthorizedApplicationId { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

AuthorizedParty

The Authorized party. This is also the azp claim.

Declaration

```
[JsonPropertyName("authorized_party")]
public string AuthorizedParty { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

ConsumerObjectId

The optional consumer object id.

```
[JsonPropertyName("consumer_object_id")]
[JsonIgnore(Condition = JsonIgnoreCondition.WhenWritingNull)]
public string ConsumerObjectId { get; set; }
```

ТҮРЕ	DESCRIPTION
System.String	

ConsumerTenantId

The consumer tenant id.

Declaration

```
[JsonPropertyName("consumer_tenant_id")]
public string ConsumerTenantId { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Key

The key to check.

Declaration

```
[JsonPropertyName("key")]
public string Key { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

KeyType

The key type. primary_key or secondary_key.

Declaration

```
[JsonPropertyName("key_type")]
public string KeyType { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Provider Tenant Id

The registered provider or the provider tenant id.

```
[JsonPropertyName("provider_tenant_id")]
public string ProviderTenantId { get; set; }
```

ТҮРЕ	DESCRIPTION
System.String	

Subject

The subject. This is also the sub claim.

Declaration

```
[JsonPropertyName("subject")]
public string Subject { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Class LicenseClaimsModel

Defines the licensing claims model.

Inheritance

System.Object

LicenseClaimsModel

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: Perpetual Intelligence. Protocols. Licensing. Models

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public sealed class LicenseClaimsModel

Constructors

LicenseClaimsModel()

Initialize a new instance. This constructor is part of the internal infrastructure. Please do not use it directly in the application code. To create a new instance from claims please use Create(IDictionary < String, Object >).

Declaration

public LicenseClaimsModel()

Properties

AcrValues

The acr claim values.

Declaration

[JsonPropertyName("acr_values")]
public string AcrValues { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Audience

The aud claim.

```
[JsonPropertyName("audience")]
public string Audience { get; set; }
```

ТУРЕ	DESCRIPTION
System.String	

Authorized Application Ids

The auth_apps claim.

Declaration

```
[JsonPropertyName("authorized_application_ids")]
public string AuthorizedApplicationIds { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

AuthorizedParty

The azp claim.

Declaration

```
[JsonPropertyName("authorized_party")]
public string AuthorizedParty { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Custom

The custom claims.

Declaration

```
[JsonPropertyName("custom")]
[JsonIgnore(Condition = JsonIgnoreCondition.WhenWritingNull)]
public Dictionary<string, object> Custom { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Collections.Generic.Dictionary < System.String, System.Object >	

Expiry

The exp claim.

```
[JsonPropertyName("expiry")]
public DateTimeOffset? Expiry { get; set; }
```

TYPE		DESCRIPTION
System	n.Nullable < DateTimeOffset >	

Is sued At

The iat claim.

Declaration

```
[JsonPropertyName("issued_at")]
public DateTimeOffset? IssuedAt { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.Nullable <datetimeoffset></datetimeoffset>	

Issuer

The iss claim.

Declaration

```
[JsonPropertyName("issuer")]
public string Issuer { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Jti

The jti claim.

Declaration

```
[JsonPropertyName("jti")]
public string Jti { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Name

The name claim.

Declaration

```
[JsonPropertyName("name")]
public string Name { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

NotBefore

The nbf claim.

Declaration

```
[JsonPropertyName("not_before")]
public DateTimeOffset? NotBefore { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Nullable < DateTimeOffset >	

ObjectCountry

The optional ctry claim.

Declaration

```
[JsonPropertyName("object_country")]
[JsonIgnore(Condition = JsonIgnoreCondition.WhenWritingNull)]
public string ObjectCountry { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

ObjectId

The optional oid claim.

Declaration

```
[JsonPropertyName("object_id")]
[JsonIgnore(Condition = JsonIgnoreCondition.WhenWritingNull)]
public string ObjectId { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Subject

The sub claim.

```
[JsonPropertyName("subject")]
public string Subject { get; set; }
```

ТУРЕ	DESCRIPTION
System.String	

TenantCountry

The tenant_ctry claim.

Declaration

```
[JsonPropertyName("tenant_country")]
public string TenantCountry { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

TenantId

The tid claim.

Declaration

```
[JsonPropertyName("tenant_id")]
public string TenantId { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Methods

Create(IDictionary<String, Object>)

Creates a new instance of LicenseClaimsModel based on the specified claims dictionary.

Declaration

```
public static LicenseClaimsModel Create(IDictionary<string, object> claims)
```

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Collections.Generic.IDictionary < System.String, System.Object >	claims	The source claims.

ТҮРЕ	DESCRIPTION
LicenseClaimsModel	

Class LicenseKeyJsonFileModel

The jws B2B keys download model.

Inheritance

System.Object

LicenseKeyJsonFileModel

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: PerpetualIntelligence.Protocols.Licensing.Models

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public class LicenseKeyJsonFileModel

Properties

AuthorizedParty

The Authorized party. This is also the azp claim.

Declaration

```
[JsonPropertyName("authorized_party")]
public string AuthorizedParty { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

ConsumerObjectId

The optional consumer object id.

Declaration

```
[JsonPropertyName("consumer_object_id")]
[JsonIgnore(Condition = JsonIgnoreCondition.WhenWritingNull)]
public string ConsumerObjectId { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

ConsumerTenantId

The consumer tenant id.

Declaration

[JsonPropertyName("consumer_tenant_id")]
public string ConsumerTenantId { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

ExpiresIn

The expiry in days.

Declaration

```
[JsonPropertyName("expires_in")]
public int ExpiresIn { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.Int32	

Key

The key to check.

Declaration

```
[JsonPropertyName("key")]
public string Key { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

KeyType

The key type. primary_key or secondary_key.

Declaration

```
[JsonPropertyName("key_type")]
public string KeyType { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

ProviderId

The registered provider or the provider tenant id.

```
[JsonPropertyName("provider_id")]
public string ProviderId { get; set; }
```

ТУРЕ	DESCRIPTION
System.String	

Subject

The subject. This is also the sub claim.

Declaration

```
[JsonPropertyName("subject")]
public string Subject { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Class LicenseKeysModel

The jws B2B keys model.

Inheritance

System.Object

LicenseKeysModel

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: PerpetualIntelligence.Protocols.Licensing.Models

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public class LicenseKeysModel

Properties

AcrValues

The acr claim.

Declaration

```
[JsonPropertyName("acr_values")]
public string[] AcrValues { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String[]	

Authorized Application Ids

The authorized application. This is also the auth_apps claim.

Declaration

```
[JsonPropertyName("authorized_application_ids")]
public string[] AuthorizedApplicationIds { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String[]	

AuthorizedParty

The Authorized party. This is also the azp claim.

```
[JsonPropertyName("authorized_party")]
public string AuthorizedParty { get; set; }
```

ТҮРЕ	DESCRIPTION
System.String	

ConsumerTenantId

The consumer tenant id.

Declaration

```
[JsonPropertyName("consumer_tenant_id")]
public string ConsumerTenantId { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Etag

The etag.

Declaration

```
[JsonPropertyName("etag")]
public string Etag { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

ExpiresIn

The expires in days.

Declaration

```
[JsonPropertyName("expires_in")]
public int ExpiresIn { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.Int32	

Operations

The operations available for clients.

```
[JsonPropertyName("operations")]
public string[] Operations { get; set; }
```

ТҮРЕ	DESCRIPTION
System.String[]	

PrimaryKey

The primary jwt license key.

Declaration

```
[JsonPropertyName("primary_key")]
public string PrimaryKey { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

ProviderTenantId

The registered provider or provider tenant id.

Declaration

```
[JsonPropertyName("provider_tenant_id")]
public string ProviderTenantId { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

PublisherTenantId

The publisher tenant id.

Declaration

```
[JsonPropertyName("publisher_tenant_id")]
public string PublisherTenantId { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

SecondaryKey

The secondary jwt license key. Use this key when rotating the primary key.

```
[JsonPropertyName("secondary_key")]
public string SecondaryKey { get; set; }
```

ТҮРЕ	DESCRIPTION
System.String	

Subject

The subject. This is also the sub claim.

Declaration

```
[JsonPropertyName("subject")]
public string Subject { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Class LicenseProvisioningModel

The license provisioning model.

Inheritance

System.Object

LicenseProvisioningModel

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: Perpetual Intelligence. Protocols. Licensing. Models

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public class LicenseProvisioningModel

Properties

AcrValues

The acr claim.

Declaration

```
[JsonPropertyName("acr_values")]
public string[] AcrValues { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String[]	

AuthorizedApplicationIds

The auth_apps claim.

Declaration

```
[JsonPropertyName("authorized_application_ids")]
public string[] AuthorizedApplicationIds { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String[]	

AuthorizedParty

The azp claim.

```
[JsonPropertyName("authorized_party")]
public string AuthorizedParty { get; set; }
```

ТҮРЕ	DESCRIPTION
System.String	

Consumer Tenant Country

The consumer tenant id. This is the tid claim.

Declaration

```
[JsonPropertyName("consumer_tenant_country")]
public string ConsumerTenantCountry { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

ConsumerTenantId

The consumer tenant id. This is the tid claim.

Declaration

```
[JsonPropertyName("consumer_tenant_id")]
public string ConsumerTenantId { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

ConsumerTenantName

The consumer tenant id. This is the tid claim.

Declaration

```
[JsonPropertyName("consumer_tenant_name")]
public string ConsumerTenantName { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

ExpiresIn

The expiry in days.

```
[JsonPropertyName("expires_in")]
public int ExpiresIn { get; set; }
```

ТҮРЕ	DESCRIPTION
System.Int32	

Operation

The space separated keys operations. Valid value is actions, get, generate, reset_primary, reset_secondary and delete.

Declaration

```
[JsonPropertyName("operation")]
public string Operation { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

ProviderTenantId

The provider tenant id.

Declaration

```
[JsonPropertyName("provider_tenant_id")]
public string ProviderTenantId { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

PublisherTenantId

The publisher tenant id.

Declaration

```
[JsonPropertyName("publisher_tenant_id")]
public string PublisherTenantId { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Subject

The sub claim.

```
[JsonPropertyName("subject")]
public string Subject { get; set; }
```

ТҮРЕ	DESCRIPTION
System.String	

Namespace PerpetualIntelligence.Protocols.Security

Classes

HexSaltGenerator

 $Generates\ a\ HEX\ salt\ using\ cryptographic\ System. Security. Cryptography. Random Number Generator.$

IdGenerator

Generates unique identifiers.

Class HexSaltGenerator

Generates a HEX salt using cryptographic System. Security. Cryptography. Random Number Generator.

Inheritance

System.Object

HexSaltGenerator

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: PerpetualIntelligence.Protocols.Security

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public static class HexSaltGenerator

Methods

NewSalt()

Generates a new HEX salt of 32 bytes with no dash.

Declaration

public static string NewSalt()

Returns

ТҮРЕ	DESCRIPTION
System.String	The generated salt

NewSalt(Int32)

Generates a new HEX salt of specified length with no dash.

Declaration

public static string NewSalt(int length)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Int32	length	The salt byte length.

ТҮРЕ	DESCRIPTION	
System.String	The generated salt.	

NewSalt(Int32, Boolean)

Generates a new HEX salt of specified length.

Declaration

public static string NewSalt(int length, bool strip)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	length	The salt byte length.
System.Boolean	strip	true to strip dash from the generated salt, otherwise false.

ТҮРЕ	DESCRIPTION
System.String	The generated salt.

Class IdGenerator

Generates unique identifiers.

Inheritance

System.Object

IdGenerator

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: PerpetualIntelligence.Protocols.Security

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public static class IdGenerator

Methods

NewGuid()

Generates a new System.Guid.

Declaration

public static string NewGuid()

Returns

ТҮРЕ	DESCRIPTION
System.String	

NewLongId()

Generates a new unique long identifier. A long identifier is a System.Guid expressed as a string with no '-'.

Declaration

public static string NewLongId()

Returns

ТҮРЕ	DESCRIPTION
System.String	

NewShortId()

Generates a unique short identifier. A short identifier is a System.Guid expressed in a Url safe Base64 characters.

Declaration

public static string NewShortId()

ТҮРЕ	DESCRIPTION
System.String	A unique short identifier

Namespace PerpetualIntelligence.Protocols.Security.Certificates

Classes

X509Store

The System.Security.Cryptography.X509Certificates.X509Certificate2 store for OAuth and OpenID Connect protocols.

Class X509Store

The System.Security.Cryptography.X509Certificates.X509Certificate2 store for OAuth and OpenID Connect protocols.

Inheritance

System.Object

X509Store

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: Perpetual Intelligence. Protocols. Security. Certificates

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

[WriteUnitTest]
public class X509Store

Properties

CurrentUser

The X.509 certificate store used by System.Security.Cryptography.X509Certificates.StoreLocation.CurrentUser.

Declaration

public static X509Store CurrentUser { get; }

Property Value

ТҮРЕ	DESCRIPTION
X509Store	

LocalMachine

The X.509 certificate store assigned to System.Security.Cryptography.X509Certificates.StoreLocation.LocalMachine.

Declaration

public static X509Store LocalMachine { get; }

Property Value

ТУРЕ	DESCRIPTION
X509Store	

Methods

Find(StoreName, X509FindType, Object, Boolean)

Finds the System.Security.Cryptography.X509Certificates.X509Certificate2 based in the specified System.Security.Cryptography.X509Certificates.X509FindType.

Declaration

public IEnumerable<X509Certificate2> Find(StoreName storeName, X509FindType findType, object findValue, bool validOnly = true)

Parameters

ТУРЕ	NAME	DESCRIPTION
System. Security. Cryptography. X509 Certificates. Store Name	storeName	The System. Security. Cryptography. X509 Certificates. Store Name.
System. Security. Cryptography. X509 Certificates. X509 Find Type	findType	The System. Security. Cryptography. X509 Certificates. X509 Find Type.
System.Object	findValue	The find value.
System.Boolean	validOnly	The find value validity.

Returns

ТҮРЕ	DESCRIPTION
System.Collections.Generic.IEnumerable < System.Security.Cryptography.X509Certificates.X509	ate2>

See Also

System.Security.Cryptography.X509Certificates.X509Certificate2 System.Security.Cryptography.X509Certificates.StoreLocation System.Security.Cryptography.X509Certificates.StoreName

Namespace PerpetualIntelligence.Protocols.Security.Secrets

Classes

ExtractedSecret

Represents a protected string or a protected key extracted from a context.

Secret

Represents a protected string or a protected key. A secret is equatable over its Type and Value. It is a security concern to have multiple secrets with same identifying credentials.

SecretComparer

Compares two string in length-constant time. This comparison method is used so that password hashes and secrets cannot be extracted from on-line systems using a timing attack and then attacked off-line.

SecretTypes

Defines the secret types.

Class ExtractedSecret

Represents a protected string or a protected key extracted from a context.

Inheritance

System.Object

ExtractedSecret

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: Perpetual Intelligence. Protocols. Security. Secrets

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public sealed class ExtractedSecret

Properties

Id

The secret identifier.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Туре

The secret type.

Declaration

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

Property Value

ТУРЕ	DESCRIPTION
System.String	

Value

The secret value.

Declaration

```
public object Value { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.Object	

See Also

Secret

SecretTypes

SecretComparer

Class Secret

Represents a protected string or a protected key. A secret is equatable over its Type and Value. It is a security concern to have multiple secrets with same identifying credentials.

Inheritance

System.Object

Secret

Implements

System.IEquatable < Secret >

Inherited Members

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

Name space: Perpetual Intelligence. Protocols. Security. Secrets

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

```
public sealed class Secret : IEquatable<Secret>
```

Remarks

Secrets are subject to timing attack, please use SecretComparer to compare the secrets explicitly.

Properties

Description

The secret description.

Declaration

```
[JsonPropertyName("description")]
public string Description { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Expiration

The secret expiration date and time expressed in coordinated universal time (UTC).

Declaration

```
[JsonPropertyName("expiration")]
public DateTimeOffset? Expiration { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.Nullable < DateTimeOffset >	

Name

The secret name.

Declaration

```
[JsonPropertyName("name")]
public string Name { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Туре

The secret type. Defaults to Sha.

Declaration

```
[JsonPropertyName("type")]
public string Type { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

See Also

SecretTypes

Value

The secret value.

Declaration

```
[JsonPropertyName("value")]
public string Value { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Methods

Equals(Secret)

Declaration

```
public bool Equals(Secret other)
```

Parameters

ТҮРЕ	NAME	DESCRIPTION
Secret	other	

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

Equals(Object)

Declaration

public override bool Equals(object obj)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Object	obj	

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

Overrides

System.Object.Equals(System.Object)

GetHashCode()

Declaration

public override int GetHashCode()

Returns

ТҮРЕ	DESCRIPTION
System.Int32	

Overrides

System. Object. Get Hash Code ()

Operators

Equality(Secret, Secret)

Declaration

public static bool operator ==(Secret left, Secret right)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Secret	left	
Secret	right	

ТҮРЕ	DESCRIPTION
System.Boolean	

Inequality(Secret, Secret)

Declaration

public static bool operator !=(Secret left, Secret right)

Parameters

ТУРЕ	NAME	DESCRIPTION
Secret	left	
Secret	right	

Returns

ТУРЕ	DESCRIPTION
System.Boolean	

Implements

System.IEquatable < T >

See Also

ExtractedSecret
SecretTypes
SecretComparer

Class SecretComparer

Compares two string in length-constant time. This comparison method is used so that password hashes and secrets cannot be extracted from on-line systems using a timing attack and then attacked off-line.

Inheritance

System.Object

SecretComparer

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: PerpetualIntelligence.Protocols.Security.Secrets

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public static class SecretComparer

Methods

IsEqual(String, String)

Checks two strings in length-constant time.

Declaration

[WriteUnitTest]

public static bool IsEqual(string s1, string s2)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	s1	string 1.
System.String	s2	string 2.

ТҮРЕ	DESCRIPTION
System.Boolean	true if the specified strings are equal; otherwise, false.

Class SecretTypes

Defines the secret types.

Inheritance

System.Object

SecretTypes

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()

 $Names pace: \ Perpetual Intelligence. Protocols. Security. Secrets$

Assembly: PerpetualIntelligence.Protocols.dll

Syntax

public static class SecretTypes

Fields

JsonWebKey

The JSON Web Key (JWK). See https://datatracker.ietf.org/doc/html/rfc7517.

Declaration

public const string JsonWebKey = "urn:oneimlx:security:secret:jwk"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

JwtBearer

The JWT bearer token. See https://datatracker.ietf.org/doc/html/rfc7523.

Declaration

[MustDo("For consistency make this urn:oneimlx:", BlockRelease = true)]
public const string JwtBearer = "urn:ietf:params:oauth:client-assertion-type:jwt-bearer"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

None

No secret type.

Declaration

Field Value

ТУРЕ	DESCRIPTION
System.String	

Plain

The regular plain text that an application gives to an authorized secret owner.

Declaration

```
public const string Plain = "urn:oneimlx:security:secret:pln"
```

Field Value

ТУРЕ	DESCRIPTION
System.String	

Sha

The SHA hash an application gives to an authorized secret owner.

Declaration

```
public const string Sha = "urn:oneimlx:security:secret:sha"
```

Field Value

ТҮРЕ	DESCRIPTION
System.String	

X509Base64

The System.Security.Cryptography.X509Certificates.X509Certificate2 Base64 encoding.

Declaration

```
public const string X509Base64 = "urn:oneimlx:security:secret:x509b64"
```

Field Value

ТҮРЕ	DESCRIPTION
System.String	

X509Mtls

 $The \ System. Security. Cryptography. X509 Certificates. X509 Certificate 2\ Mtls.$

Declaration

```
public const string X509Mtls = "urn:oneimlx:security:secret:x509mtls"
```

Field Value

ТҮРЕ	DESCRIPTION
System.String	

X509Subject

The System.Security.Cryptography.X509Certificates.X509Certificate2 subject's distinguished name.

Declaration

public const string X509Subject = "urn:oneimlx:security:secret:x509sub"

Field Value

ТУРЕ	DESCRIPTION
System.String	

X509Thumbprint

 $The \ System. Security. Cryptography. X509 Certificates. X509 Certificate 2\ thumbprint.$

Declaration

public const string X509Thumbprint = "urn:oneimlx:security:secret:x509tb"

Field Value

ТУРЕ	DESCRIPTION
System.String	

Namespace PerpetualIntelligence.Shared.Abstractions

Interfaces

ICommunicationSender

An abstraction to send standard communication via email or text message.

IComponentIdGenerator

An abstraction to generate a component identifier.

IEmailSender

An abstraction to send an email.

IEncoder

An abstraction to encode and decode text.

IIdAccessor

An abstraction of an id accessor.

IIdentityAccessor

An abstraction of an identity accessor.

IIdGenerator

An abstraction of an id generator.

ILocalizer

An abstraction of the localizer.

IModeAccessor

An abstraction to access the current mode.

INameAccessor

An abstraction to return the subject's name.

IOnelmlxResult

An abstraction of a generic oneimlx result.

IT ext Message Sender

An abstraction to send a text message.

Interface ICommunicationSender

An abstraction to send standard communication via email or text message.

Name space: Perpetual Intelligence. Shared. Abstractions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public interface ICommunicationSender

Properties

EmailSender

The email sender.

Declaration

IEmailSender EmailSender { get; }

Property Value

ТУРЕ	DESCRIPTION
IEmailSender	An instance of IEmailSender.

Text Message Sender

The text message sender.

Declaration

ITextMessageSender TextMessageSender { get; }

Property Value

ТҮРЕ	DESCRIPTION
ITextMessageSender	An instance of ITextMessageSender.

Interface IComponentIdGenerator

An abstraction to generate a component identifier.

Name space: Perpetual Intelligence. Shared. Abstractions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public interface IComponentIdGenerator

Methods

NewId()

Generates a new component id.

Declaration

string NewId()

ТУРЕ	DESCRIPTION
System.String	A new component id.

Interface IEmailSender

An abstraction to send an email.

Name space: Perpetual Intelligence. Shared. Abstractions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public interface IEmailSender

Methods

SendAsync(String, String[], String, String, String[])

Sends an email asynchronously.

Declaration

Task SendAsync(string from, string[] to, string subject, string message, string[] bcc)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	from	The sender.
System.String[]	to	The recipients.
System.String	subject	The subject.
System.String	message	The message.
System.String[]	bcc	The bcc recipients.

Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task	System.Threading.Tasks.Task instance that represents an asynchronous send operation.

SendAsync(String[], String, String, String[])

Sends an email from a configured sender asynchronously.

Declaration

Task SendAsync(string[] to, string subject, string message, string[] bcc)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String[]	to	The recipients.
System.String	subject	The subject.
System.String	message	The message.
System.String[]	bcc	The bcc recipients.

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	System.Threading.Tasks.Task instance that represents an asynchronous send operation.

Interface IEncoder

An abstraction to encode and decode text.

Name space: Perpetual Intelligence. Shared. Abstractions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public interface IEncoder

Methods

Decode(String)

Decodes the text.

Declaration

string Decode(string text)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	text	Text to decode.

Returns

ТҮРЕ	DESCRIPTION
System.String	The decoded text.

Encode(Byte[])

Encodes the bytes.

Declaration

string Encode(byte[] bytes)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Byte[]	bytes	Bytes to encode.

Returns

ТУРЕ	DESCRIPTION
System.String	The encoded text.

Encode(String)

Encodes the text.

Declaration

string Encode(string text)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	text	Text to encode.

ТҮРЕ	DESCRIPTION
System.String	The encoded text.

Interface IIdAccessor

An abstraction of an id accessor.

Name space: Perpetual Intelligence. Shared. Abstractions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public interface IIdAccessor

Methods

GetId()

Gets the identifier.

Declaration

string GetId()

Returns

ТҮРЕ	DESCRIPTION
System.String	An identifier.

See Also

IldGenerator IldentityAccessor

Interface IldentityAccessor

An abstraction of an identity accessor.

Inherited Members

IIdAccessor.GetId()

Name space: Perpetual Intelligence. Shared. Abstractions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public interface IIdentityAccessor : IIdAccessor

Remarks

The identity accessor returns see Identity of a target entity. It also implements IIdAccessor to return string representation of an Identity.

Methods

GetIdentity()

Gets the identity.

Declaration

Identity GetIdentity()

ТҮРЕ	DESCRIPTION
Identity	An identity instance.

Interface IIdGenerator

An abstraction of an id generator.

Name space: Perpetual Intelligence. Shared. Abstractions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public interface IIdGenerator

Remarks

The IldGenerator can generate regular text id, numeric id, partitioned id and mode id.

Methods

DecodeModeId(String)

Decodes the specified mode identifier.

Declaration

ModeIdentity DecodeModeId(string modeId)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	modeld	The mode identifier to decode.

Returns

ТҮРЕ	DESCRIPTION
Modeldentity	An identity instance that represents the decoded mode identifier.

DecodePartitionedId(String, Boolean)

Decodes the specified partitioned identifier.

Declaration

Identity DecodePartitionedId(string partitionedId, bool splitId)

Parameters

TYPE	NAME	DESCRIPTION	
System.String	partitionedId	The partitioned identifier to decode.	
System.Boolean	splitId	true to split the partitionedId identifier, otherwise false.	

ТҮРЕ	DESCRIPTION
Identity	An identity instance that represents a decoded partitioned identifier.

NewLongId()

Generates a new long identifier. Typically this a long version of a System.Guid.

Declaration

string NewLongId()

Returns

ТҮРЕ	DESCRIPTION
System.String	A new long identifier.

NewModeld(String, String)

Generates a new mode identifier. A mode identifier is a compound identifier of the specified mode, partition identifier and a new unique identifier.

Declaration

string NewModeId(string mode, string partitionId)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	mode	The mode. See Modes.
System.String	partitionId	The partition identifier.

Returns

ТҮРЕ	DESCRIPTION
System.String	A new mode identifier.

NewNumericId()

Generates a new numeric identifier.

Declaration

int NewNumericId()

ТУРЕ	DESCRIPTION	
System.Int32	A new numeric identifier.	

NewPartitionedId(String)

Generates a new partitioned identifier. A partitioned identifier is a compound identifier of the specified partition identifier and a new unique identifier.

Declaration

string NewPartitionedId(string partitionId)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	partitionId	The partition identifier.

Returns

ТУРЕ	DESCRIPTION	
System.String	A new partitioned identifier.	

NewShortId()

Generates a new short identifier. Typically this a short version of a System. Guid while maintaining the uniqueness.

Declaration

string NewShortId()

Returns

ТУРЕ	DESCRIPTION
System.String	A new short identifier.

See Also

Identity Modeldentity Modes

Interface ILocalizer

An abstraction of the localizer.

Inherited Members

Microsoft.Extensions.Localization.IStringLocalizer.GetAllStrings(System.Boolean)

Microsoft. Extensions. Localization. IS tringLocalizer. Item [System. String]

Microsoft.Extensions.Localization.IStringLocalizer.Item[System.String, System.Object[]]

Namespace: PerpetualIntelligence.Shared.Abstractions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public interface ILocalizer : IStringLocalizer

Methods

FindAsync(String)

Finds a locale specific string for the specified translation unit id.

Declaration

Task<LocalizedString> FindAsync(string tuId)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	tuld	The translation unit identifier.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task < Microsoft.Extensions.Localization.LocalizedString >	An instance of Microsoft.Extensions.Localization.LocalizedString.

FindAsync(String, Object[])

Finds a formated locale specific string for the specified translation unit id.

Declaration

Task<LocalizedString> FindAsync(string tuId, params object[] arguments)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	tuld	The translation unit identifier.
System.Object[]	arguments	The format arguments.

ТҮРЕ	DESCRIPTION	
System. Threading. Tasks. Task < Microsoft. Extensions. Localization. Localized String >	An instance of Microsoft.Extensions.Localization.LocalizedString.	

TranslateAsync(String)

Translates the specified string input and returns a locale specific string.

Declaration

Task<LocalizedString> TranslateAsync(string input)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	input	String to translate.

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Microsoft. Extensions. Localization. Localized String >	An instance of Microsoft.Extensions.Localization.LocalizedString.

Interface IModeAccessor

An abstraction to access the current mode.

Name space: Perpetual Intelligence. Shared. Abstractions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public interface IModeAccessor

Methods

GetMode()

Returns the current mode.

Declaration

string GetMode()

Returns

ТҮРЕ	DESCRIPTION
System.String	The current mode.

See Also

All()

See Also

Modes

Interface INameAccessor

An abstraction to return the subject's name.

Name space: Perpetual Intelligence. Shared. Abstractions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public interface INameAccessor	
--------------------------------	--

Methods

GetName()

Returns the subject's name.

Declaration

stri	ng GetName()			

ТУРЕ	DESCRIPTION
System.String	The name.

Interface IOneImlxResult

An abstraction of a generic oneimlx result.

Name space: Perpetual Intelligence. Shared. Abstractions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public interface IOneImlxResult

Properties

IsError

Determines if the result is an error.

Declaration

bool IsError { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	A boolean value.

Interface ITextMessageSender

An abstraction to send a text message.

Name space: Perpetual Intelligence. Shared. Abstractions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public interface ITextMessageSender

Methods

SendAsync(String, String)

Sends a text message asynchronously

Declaration

Task SendAsync(string message, string phoneNumber)

Parameters

TYPE NAME		DESCRIPTION	
System.String	message	The text message.	
System.String phoneNumber		The phone number.	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	System.Threading.Tasks.Task instance that represents a send operation.

Namespace PerpetualIntelligence.Shared.Attributes

Classes

Action Attribute

An actionable attribute.

ArchitectureAttribute

Specifies that the target has an architectural comment that may be resolved in future releases. Applications can use the target element, but the design may change in future releases including breaking changes.

ConceptAttribute

Indicates that the target element represents a concept.

Future Attribute

Indicates a future capability or a feature request.

Internal Infrastructure Attribute

Indicates that the target is part of the internal infrastructure. Application should not use the target directly.

MustDoAttribute

Indicates a MUST-DO action on the target element.

PerformanceAttribute

Specifies that the target has a performance concern that may be resolved in future releases. Applications can use the target element, but the design may change in future releases including breaking changes.

RedundancyAttribute

Specifies that the target has a redundancy that can be resolved in future releases. Applications can use the target element, but the design may change in future releases including breaking changes.

RefactorAttribute

Specifies that the target should be re-factored. Applications can use the target element, but the design may change in future releases including breaking changes.

RenameAttribute

Specifies that the target should be renamed.

TodoAttribute

Indicates a TODO action on the target element.

WriteApiAttribute

Indicates that the target element should add the relevant back-end API.

WriteDocumentationAttribute

Indicates that the target element requires documentation.

WriteIntegration Test Attribute

Indicates that the target element should have integration tests.

WriteUnitTestAttribute

Indicates that the target element should have unit tests.		

Class ActionAttribute

An actionable attribute.

Inheritance

System.Object

System.Attribute

ActionAttribute

ArchitectureAttribute

ConceptAttribute

FutureAttribute

MustDoAttribute

PerformanceAttribute

RedundancyAttribute

RefactorAttribute

RenameAttribute

TodoAttribute

WriteApiAttribute

WriteDocumentationAttribute

WriteIntegrationTestAttribute

WriteUnitTestAttribute

Inherited Members

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Module, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly, System. Type, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.IsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System. Attribute. Is Defined (System. Reflection. Assembly, System. Type, System. Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

Namespace: PerpetualIntelligence.Shared.Attributes

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public abstract class ActionAttribute : Attribute

Constructors

ActionAttribute()

Initialize a new instance.

Declaration

protected ActionAttribute()

ActionAttribute(String)

Initialize a new instance.

Declaration

protected ActionAttribute(string description)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	description	

Exceptions

ТҮРЕ	CONDITION
System.ArgumentNullException	

Properties

Assignee

The action assignee.

Declaration

public string Assignee { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

Description

The description.

Declaration

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

Property Value

ТУРЕ	DESCRIPTION
System.String	

Severity

The severity.

Declaration

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

Property Value

ТУРЕ	DESCRIPTION
System.String	

Version

The version to address an action.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Class ArchitectureAttribute

Specifies that the target has an architectural comment that may be resolved in future releases. Applications can use the target element, but the design may change in future releases including breaking changes.

Inheritance

System.Object

System.Attribute

ActionAttribute

ArchitectureAttribute

Inherited Members

ActionAttribute.Assignee

ActionAttribute.Description

ActionAttribute.Severity

ActionAttribute.Version

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.lsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.lsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Is Defined (System. Reflection. Parameter Info, System. Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

Name space: Perpetual Intelligence. Shared. Attributes

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.All, Inherited = false, AllowMultiple = true)]
public sealed class ArchitectureAttribute : ActionAttribute

Constructors

ArchitectureAttribute(String)

Initialize a new instance.

Declaration

public ArchitectureAttribute(string description)

ТУРЕ	NAME	DESCRIPTION
System.String	description	The description.

Class ConceptAttribute

Indicates that the target element represents a concept.

Inheritance

System.Object

System.Attribute

ActionAttribute

ConceptAttribute

Inherited Members

ActionAttribute.Assignee

ActionAttribute.Description

ActionAttribute.Severity

ActionAttribute.Version

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Module, System. Type, System. Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

System.Object.MemberwiseClone()

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

System.Object.ToString()

Name space: Perpetual Intelligence. Shared. Attributes

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.All, AllowMultiple = true, Inherited = false)]
public sealed class ConceptAttribute : ActionAttribute

Constructors

ConceptAttribute(String)

Initialize a new instance.

Declaration

public ConceptAttribute(string description)

ТУРЕ	NAME	DESCRIPTION
System.String	description	Additional description.

Class FutureAttribute

Indicates a future capability or a feature request.

Inheritance

System.Object

System.Attribute

ActionAttribute

FutureAttribute

Inherited Members

ActionAttribute.Assignee

ActionAttribute.Description

ActionAttribute.Severity

ActionAttribute.Version

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Module, System. Type, System. Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Is Defined (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

System.Object.MemberwiseClone()

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

System.Object.ToString()

Name space: Perpetual Intelligence. Shared. Attributes

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.All, AllowMultiple = true, Inherited = false)]
public sealed class FutureAttribute : ActionAttribute

Constructors

FutureAttribute(String)

Initialize a new instance.

Declaration

public FutureAttribute(string description)

ТҮРЕ	NAME	DESCRIPTION
System.String	description	Additional description.

Class InternalInfrastructureAttribute

Indicates that the target is part of the internal infrastructure. Application should not use the target directly.

Inheritance

System.Object

System.Attribute

InternalInfrastructureAttribute

Inherited Members

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Member Info, System. Type)

System. Attribute. Get Custom Attribute (System. Reflection. Member Info, System. Type, System. Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System. Attribute. Is Defined (System. Reflection. Assembly, System. Type, System. Boolean)

System.Attribute.lsDefined(System.Reflection.MemberInfo, System.Type)

System. Attribute. Is Defined (System. Reflection. Member Info, System. Type, System. Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

 $Assembly: \ Perpetual Intelligence. Shared. dll$

Syntax

[AttributeUsage(AttributeTargets.All, Inherited = false, AllowMultiple = true)]
public sealed class InternalInfrastructureAttribute : Attribute

Properties

Description

Additional description.

Declaration

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

Property Value

ТУРЕ	DESCRIPTION
System.String	

Class MustDoAttribute

Indicates a MUST-DO action on the target element.

Inheritance

System.Object

System.Attribute

ActionAttribute

MustDoAttribute

Inherited Members

ActionAttribute.Assignee

ActionAttribute.Description

ActionAttribute.Severity

ActionAttribute.Version

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Module, System. Type, System. Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Is Defined (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

System.Object.MemberwiseClone()

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

System.Object.ToString()

Namespace: PerpetualIntelligence.Shared.Attributes

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.All, AllowMultiple = true, Inherited = false)]
public sealed class MustDoAttribute : ActionAttribute

Constructors

MustDoAttribute(String)

Initialize a new instance.

Declaration

public MustDoAttribute(string description)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	description	Additional description.

Properties

BlockRelease

This indicates that DevOps should block the package release until the MUST-DO action is open.

Declaration

public bool BlockRelease { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

Remarks

You should write tests that execute only in your DevOps release environment and check for this attribute.

Class PerformanceAttribute

Specifies that the target has a performance concern that may be resolved in future releases. Applications can use the target element, but the design may change in future releases including breaking changes.

Inheritance

System.Object

System.Attribute

ActionAttribute

PerformanceAttribute

Inherited Members

ActionAttribute.Assignee

ActionAttribute.Description

ActionAttribute.Severity

ActionAttribute.Version

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.lsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Is Defined (System. Reflection. Parameter Info, System. Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

Name space: Perpetual Intelligence. Shared. Attributes

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.All, Inherited = false, AllowMultiple = true)]
public sealed class PerformanceAttribute : ActionAttribute

Constructors

PerformanceAttribute(String)

Initialize a new instance.

Declaration

public PerformanceAttribute(string description)

ТУРЕ	NAME	DESCRIPTION
System.String	description	

Class RedundancyAttribute

Specifies that the target has a redundancy that can be resolved in future releases. Applications can use the target element, but the design may change in future releases including breaking changes.

Inheritance

System.Object

System.Attribute

ActionAttribute

RedundancyAttribute

Inherited Members

ActionAttribute.Assignee

ActionAttribute.Description

ActionAttribute.Severity

ActionAttribute.Version

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.lsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.lsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

Name space: Perpetual Intelligence. Shared. Attributes

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.All, Inherited = false, AllowMultiple = true)]
public sealed class RedundancyAttribute : ActionAttribute

Constructors

Redundancy Attribute (String)

Initialize a new instance.

Declaration

public RedundancyAttribute(string description)

ТУРЕ	NAME	DESCRIPTION
System.String	description	

Class Refactor Attribute

Specifies that the target should be re-factored. Applications can use the target element, but the design may change in future releases including breaking changes.

Inheritance

System.Object

System.Attribute

ActionAttribute

RefactorAttribute

Inherited Members

ActionAttribute.Assignee

ActionAttribute.Description

ActionAttribute.Severity

ActionAttribute.Version

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.lsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.lsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Is Defined (System. Reflection. Parameter Info, System. Type)

System. Attribute. Is Defined (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

Name space: Perpetual Intelligence. Shared. Attributes

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.All, Inherited = false, AllowMultiple = true)]
public sealed class RefactorAttribute : ActionAttribute

Constructors

RefactorAttribute(String)

Initialize a new instance.

Declaration

public RefactorAttribute(string description)

ТУРЕ	NAME	DESCRIPTION
System.String	description	

Class RenameAttribute

Specifies that the target should be renamed.

Inheritance

System.Object

System.Attribute

ActionAttribute

RenameAttribute

Inherited Members

ActionAttribute.Assignee

ActionAttribute.Description

ActionAttribute.Severity

ActionAttribute.Version

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Module, System. Type, System. Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Is Defined (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

System.Object.MemberwiseClone()

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

System.Object.ToString()

Name space: Perpetual Intelligence. Shared. Attributes

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.All, Inherited = false, AllowMultiple = true)]
public sealed class RenameAttribute : ActionAttribute

Constructors

RenameAttribute(String)

Initialize a new instance.

Declaration

public RenameAttribute(string description)

ТУРЕ	NAME	DESCRIPTION
System.String	description	

Class TodoAttribute

Indicates a TODO action on the target element.

Inheritance

System.Object

System.Attribute

ActionAttribute

TodoAttribute

Inherited Members

ActionAttribute.Assignee

ActionAttribute.Description

ActionAttribute.Severity

ActionAttribute.Version

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Module, System. Type, System. Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.Module, System.Type)

System. Attribute. Is Defined (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Is Defined (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

System.Object.MemberwiseClone()

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

System.Object.ToString()

Name space: Perpetual Intelligence. Shared. Attributes

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.All, AllowMultiple = true, Inherited = false)]
public sealed class TodoAttribute : ActionAttribute

Constructors

TodoAttribute(String)

Initialize a new instance.

Declaration

public TodoAttribute(string description)

ТУРЕ	NAME	DESCRIPTION
System.String	description	Additional description.

Class WriteApiAttribute

Indicates that the target element should add the relevant back-end API.

Inheritance

System.Object

System.Attribute

ActionAttribute

WriteApiAttribute

Inherited Members

ActionAttribute.Assignee

ActionAttribute.Description

ActionAttribute.Severity

ActionAttribute.Version

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Module, System. Type, System. Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Is Defined (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

System.Object.MemberwiseClone()

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

System.Object.ToString()

Name space: Perpetual Intelligence. Shared. Attributes

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.All, AllowMultiple = true, Inherited = false)]
public sealed class WriteApiAttribute : ActionAttribute

Constructors

WriteApiAttribute(String)

Initialize a new instance.

Declaration

public WriteApiAttribute(string description)

ТУРЕ	NAME	DESCRIPTION
System.String	description	Additional description.

Class WriteDocumentationAttribute

Indicates that the target element requires documentation.

Inheritance

System.Object

System.Attribute

ActionAttribute

WriteDocumentationAttribute

Inherited Members

ActionAttribute.Assignee

ActionAttribute.Description

ActionAttribute.Severity

ActionAttribute.Version

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Module, System. Type, System. Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System. Attribute. Is Defined (System. Reflection. Assembly, System. Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Is Defined (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

System.Object.MemberwiseClone()

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

System.Object.ToString()

Namespace: PerpetualIntelligence.Shared.Attributes

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.All, AllowMultiple = true, Inherited = false)] public sealed class WriteDocumentationAttribute : ActionAttribute

Constructors

WriteDocumentationAttribute()

Initializes a new instance.

Declaration

public WriteDocumentationAttribute()

WriteDocumentationAttribute(String)

Initialize a new instance.

Declaration

public WriteDocumentationAttribute(string description)

ТҮРЕ	NAME	DESCRIPTION
System.String	description	Additional description.

Class WriteIntegrationTestAttribute

Indicates that the target element should have integration tests.

Inheritance

System.Object

System.Attribute

ActionAttribute

WriteIntegrationTestAttribute

Inherited Members

ActionAttribute.Assignee

ActionAttribute.Description

ActionAttribute.Severity

ActionAttribute.Version

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Module, System. Type, System. Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Is Defined (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

System.Object.MemberwiseClone()

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

System.Object.ToString()

Namespace: PerpetualIntelligence.Shared.Attributes

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.All, AllowMultiple = true, Inherited = false)]
public sealed class WriteIntegrationTestAttribute : ActionAttribute

Constructors

WriteIntegrationTestAttribute()

Initialize a new instance.

Declaration

public WriteIntegrationTestAttribute()

WriteIntegrationTestAttribute(String)

Initialize a new instance with description.

Declaration

public WriteIntegrationTestAttribute(string description)

ТҮРЕ	NAME	DESCRIPTION
System.String	description	Additional description.

Class WriteUnitTestAttribute

Indicates that the target element should have unit tests.

Inheritance

System.Object

System.Attribute

ActionAttribute

WriteUnitTestAttribute

Inherited Members

ActionAttribute.Assignee

ActionAttribute.Description

ActionAttribute.Severity

ActionAttribute.Version

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Member Info, System. Type, System. Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Module, System. Type, System. Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Is Defined (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

System.Object.MemberwiseClone()

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

System.Object.ToString()

Namespace: PerpetualIntelligence.Shared.Attributes

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.All, AllowMultiple = true, Inherited = false)]
public sealed class WriteUnitTestAttribute : ActionAttribute

Constructors

WriteUnitTestAttribute()

Initialize a new instance.

Declaration

public WriteUnitTestAttribute()

WriteUnitTestAttribute(String)

Initialize a new instance with description.

Declaration

public WriteUnitTestAttribute(string description)

ТҮРЕ	NAME	DESCRIPTION
System.String	description	Additional description.

Namespace PerpetualIntelligence.Shared.Attributes.Api

Classes

 ${\bf Endpoint Attribute}$

Defines an api endpoint.

Hidden Property Attribute

Hides the target property from the API spec.

ServiceAttribute

Defines an endpoint service.

Class EndpointAttribute

Defines an api endpoint.

Inheritance

System.Object

System.Attribute

EndpointAttribute

Inherited Members

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Member Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System. Attribute. Is Defined (System. Reflection. Assembly, System. Type, System. Boolean)

System.Attribute.lsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

 $Assembly: \ Perpetual Intelligence. Shared. d II\\$

Syntax

[AttributeUsage(AttributeTargets.Class, AllowMultiple = false, Inherited = false)]
public class EndpointAttribute : Attribute

Constructors

EndpointAttribute(String, String)

Initialize a new instance.

Declaration

public EndpointAttribute(string id, string authority)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	The endpoint identifier.
System.String	authority	The endpoint authority.

Properties

Authority

The endpoint authority.

Declaration

public string Authority { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Ιd

The endpoint identifier.

Declaration

public string Id { get; set; }

Property Value

ТҮРЕ	DESCRIPTION	
System.String		

Class HiddenPropertyAttribute

Hides the target property from the API spec.

Inheritance

System.Object

System.Attribute

HiddenPropertyAttribute

Inherited Members

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System. Attribute. Is Defined (System. Reflection. Assembly, System. Type, System. Boolean)

System.Attribute.lsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

 $Assembly: \ Perpetual Intelligence. Shared. dll$

Syntax

[AttributeUsage(AttributeTargets.Property, AllowMultiple = false, Inherited = false)]
public class HiddenPropertyAttribute : Attribute

Remarks

The property marked as System.TextJson.SerializationJsonIgnoreAttribute may be visible in the API spec generator such as Swagger UI. Use this attribute to process and remove the property from your API spec schema.

Constructors

HiddenPropertyAttribute(String, String)

Initializes a new instance.

Declaration

public HiddenPropertyAttribute(string property, string justification)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	property	The property to hide.
System.String	justification	The justification to hide the property.

Properties

Justification

The justification to hide the property.

Declaration

public string Justification { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Property

The property to hide.

Declaration

public string Property { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Class ServiceAttribute

Defines an endpoint service.

Inheritance

System.Object

System.Attribute

ServiceAttribute

Inherited Members

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Member Info, System. Type)

System. Attribute. Get Custom Attribute (System. Reflection. Member Info, System. Type, System. Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System. Attribute. Is Defined (System. Reflection. Assembly, System. Type, System. Boolean)

System.Attribute.lsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System. Attribute. Is Defined (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.lsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

 $Assembly: \ Perpetual Intelligence. Shared. dll$

Syntax

[AttributeUsage(AttributeTargets.Class, AllowMultiple = false, Inherited = false)]	
public class ServiceAttribute : Attribute	

Constructors

ServiceAttribute(String)

Initialize a new instance.

Declaration

public ServiceAttribute(string serviceId)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	serviceId	

Properties

ServiceId

Service identifier.

Declaration

public string ServiceId { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Namespace PerpetualIntelligence.Shared.Attributes.Rendering

Classes

${\bf Group Order Attribute}$

The relative group order for System.ComponentModel.DataAnnotations.DisplayAttribute.GroupName defined in a class. The group order and System.ComponentModel.DataAnnotations.DisplayAttribute.Order are not the same. The System.ComponentModel.DataAnnotations.DisplayAttribute.Order defines order of elements inside the group.

OverrideDisplayAttribute

Instructs the UX rendering to ignore the System.ComponentModel.DataAnnotations.DisplayAttribute and use the overridden values specified by OverrideDisplayAttribute.

SubObjectPropertyAttribute

Instructs the UX rendering to apply the DataType and Display to the sub-object PropertyName.

Class GroupOrderAttribute

The relative group order for System.ComponentModel.DataAnnotations.DisplayAttribute.GroupName defined in a class. The group order and System.ComponentModel.DataAnnotations.DisplayAttribute.Order are not the same. The System.ComponentModel.DataAnnotations.DisplayAttribute.Order defines order of elements inside the group.

Inheritance

System.Object

System.Attribute

GroupOrderAttribute

Inherited Members

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.lsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

Namespace: PerpetualIntelligence.Shared.Attributes.Rendering

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.Class, AllowMultiple = true, Inherited = false)]
public sealed class GroupOrderAttribute : Attribute

Constructors

GroupOrderAttribute(String, Int32)

Initializes a new instance.

Declaration

public GroupOrderAttribute(string groupName, int groupOrder)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	groupName	The group name.
System.Int32	groupOrder	The group order.

Properties

GroupName

The group name.

Declaration

public string GroupName { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

GroupOrder

The group order.

Declaration

public int GroupOrder { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Int32	

Class OverrideDisplayAttribute

Instructs the UX rendering to ignore the System.ComponentModel.DataAnnotations.DisplayAttribute and use the overridden values specified by OverrideDisplayAttribute.

Inheritance

System.Object

System.Attribute

OverrideDisplayAttribute

Inherited Members

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Assembly, System. Type, System. Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.lsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Is Defined (System. Reflection. Member Info, System. Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

Name space: Perpetual Intelligence. Shared. Attributes. Rendering

 $Assembly: \ Perpetual Intelligence. Shared. dll$

Syntax

[AttributeUsage(AttributeTargets.Class | AttributeTargets.Property, AllowMultiple = true, Inherited = false)] public sealed class OverrideDisplayAttribute : Attribute

Remarks

You cannot override the data type. Use this attribute to re-position your property of a base entity while rendering it in the context of a derived entity.

Constructors

OverrideDisplayAttribute(String, String, String, Int32, String, String, Boolean, Type)

Initialize a new instance.

Declaration

public OverrideDisplayAttribute(string propertyName, string name, string description, string groupName, int
order, string prompt = null, string shortName = null, bool autoGenerateField = true, bool autoGenerateFilter =
false, Type resourceType = null)

Parameters

TYPE	NAME	DESCRIPTION
System.String	propertyName	The display property to override.
System.String	name	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.Name.
System.String	description	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.Description.
System.String	groupName	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.GroupName.
System.Int32	order	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.Order.
System.String	prompt	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.Prompt.
System.String	shortName	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.ShortName.
System.Boolean	autoGenerateField	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.AutoGenerateField.
System.Boolean	autoGenerateFilter	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.AutoGenerateFilter.

TYPE	NAME	DESCRIPTION
System.Type	resourceType	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.ResourceType.

Properties

Override

 $The\ overridden\ System. Component Model. Data Annotations. Display Attribute.$

Declaration

public DisplayAttribute Override { get; }

Property Value

ТҮРЕ	DESCRIPTION
System. Component Model. Data Annotations. Display Attribute	

PropertyName

The display property to override.

Declaration

public string PropertyName { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

Class SubObjectPropertyAttribute

Instructs the UX rendering to apply the DataType and Display to the sub-object PropertyName.

Inheritance

System.Object

System.Attribute

SubObjectPropertyAttribute

Inherited Members

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Module, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type, System. Boolean)

System. Attribute. Get Hash Code ()

System. Attribute. Is Default Attribute ()

System. Attribute. Is Defined (System. Reflection. Assembly, System. Type)

System. Attribute. Is Defined (System. Reflection. Assembly, System. Type, System. Boolean)

System. Attribute. Is Defined (System. Reflection. Member Info, System. Type)

System. Attribute. Is Defined (System. Reflection. Member Info, System. Type, System. Boolean)

System. Attribute. Is Defined (System. Reflection. Module, System. Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Is Defined (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

Namespace: Perpetual Intelligence. Shared. Attributes. Rendering and a standard st

 $Assembly: \ Perpetual Intelligence. Shared. d II\\$

Syntax

[AttributeUsage(AttributeTargets.Class | AttributeTargets.Property, AllowMultiple = true, Inherited = false)] public sealed class SubObjectPropertyAttribute : Attribute

Use this attribute to re-position your property of a sub-object while rendering it in the context of a parent entity.

Constructors

SubObjectPropertyAttribute(String, DataType, String, String, String, Int32, String, String, Boolean, Boolean, Type)

Initialize a new instance.

Declaration

public SubObjectPropertyAttribute(string propertyName, DataType dataType, string name, string description, string groupName,
int order, string prompt = null, string shortName = null, bool autoGenerateField = true, bool autoGenerateFilter = false,
Type resourceType = null)

Parameters

TYPE	NAME	DESCRIPTION
System.String	propertyName	The sub-object property to override.
System. Component Model. Data Annotations. Data Type	dataType	The overridden System.ComponentModel.DataAnnotations.DataTypeAttribute.DataType
System.String	name	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.Name.
System.String	description	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.Description.
System.String	groupName	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.GroupName.
System.Int32	order	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.Order.
System.String	prompt	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.Prompt.
System.String	shortName	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.ShortName.
System.Boolean	autoGenerateField	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.AutoGenerateField.
System.Boolean	autoGenerateFilter	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.AutoGenerateFilter.
System.Type	resourceType	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.ResourceType.

SubObjectPropertyAttribute(String, String, String, String, Int32, String, String, Boolean, Boolean, Type)

Initialize a new instance.

public SubObjectPropertyAttribute(string propertyName, string customDataType, string name, string description, string
groupName, int order, string prompt = null, string shortName = null, bool autoGenerateField = true, bool autoGenerateFilter =
false, Type resourceType = null)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	propertyName	The sub-object property to override.
System.String	customDataType	The overridden System.ComponentModel.DataAnnotations.DataTypeAttribute.CustomDataType
System.String	name	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.Name.
System.String	description	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.Description.
System.String	groupName	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.GroupName.
System.Int32	order	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.Order.
System.String	prompt	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.Prompt.
System.String	shortName	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.ShortName.
System.Boolean	autoGenerateField	The overridden System.ComponentModel.DataAnnotations.DisplayAttribute.AutoGenerateField.
System.Boolean	autoGenerateFilter	$The\ overridden\ System. Component Model. Data Annotations. Display Attribute. Auto Generate Filter.$
System.Type	resourceType	$The\ overridden\ System. Component Model. Data Annotations. Display Attribute. Resource Type.$

Properties

DataType

 $The\ overridden\ System. Component Model. Data Annotations. Data Type Attribute.$

Declaration

public DataTypeAttribute DataType { get; }

Property Value

ТУРЕ	DESCRIPTION
System.ComponentModel.DataAnnotations.DataTypeAttribute	

Display

 $The\ overridden\ System. Component Model. Data Annotations. Display Attribute.$

Declaration

<pre>public DisplayAttribute Display { get; }</pre>

Property Value

ТҮРЕ	DESCRIPTION	
System.ComponentModel.DataAnnotations.DisplayAttribute		

PropertyName

The sub-object property to override.

Declaration

public string PropertyName { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

Namespace PerpetualIntelligence.Shared.Attributes.Validation

Classes

EmailListAttribute

Specifies that a data field value is a list of well formed emails.

OneOfAttribute

Specifies the allowed values for a property or a field.

SelectItemAttribute

Specifies the allowed string values on the property.

${\bf String Length List Attribute}$

Specifies the minimum and maximum length of characters that are allowed in each data field of a list.

UrlListAttribute

Specifies that a data field value is a list of well formed URL.

Class EmailListAttribute

Specifies that a data field value is a list of well formed emails.

Inheritance

System.Object

System.Attribute

System.ComponentModel.DataAnnotations.ValidationAttribute

EmailListAttribute

Inherited Members

System.ComponentModel.DataAnnotations.ValidationAttribute.FormatErrorMessage(System.String)

System. Component Model. Data Annotations. Validation Attribute. Get Validation Result (System. Object, Annotation System) and Annotation System. The Annotation System System

System. Component Model. Data Annotations. Validation Context)

System. Component Model. Data Annotations. Validation Attribute. Validate (System. Object, Annotations) and the property of the property of

System. Component Model. Data Annotations. Validation Context)

System.ComponentModel.DataAnnotations.ValidationAttribute.Validate(System.Object, System.String)

System.ComponentModel.DataAnnotations.ValidationAttribute.ErrorMessage

System. Component Model. Data Annotations. Validation Attribute. Error Message Resource Name and Strategies a

System. Component Model. Data Annotations. Validation Attribute. Error Message Resource Type

System. Component Model. Data Annotations. Validation Attribute. Error Message String and String

System. Component Model. Data Annotations. Validation Attribute. Requires Validation Context

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System. Attribute. Is Defined (System. Reflection. Assembly, System. Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System. Attribute. Match (System. Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

Namespace: PerpetualIntelligence.Shared.Attributes.Validation

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.Property | AttributeTargets.Field | AttributeTargets.Parameter, AllowMultiple = false)]
public class EmailListAttribute : ValidationAttribute

Methods

IsValid(Object)

Declaration

public override bool IsValid(object value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Object	value	

Returns

ТУРЕ	DESCRIPTION
System.Boolean	

Overrides

System. Component Model. Data Annotations. Validation Attribute. Is Valid (System. Object)

IsValid(Object, ValidationContext)

Validates the specified value with respect to the current validation attribute.

Declaration

protected override ValidationResult IsValid(object value, ValidationContext validationContext)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Object	value	The value to validate.

ТҮРЕ	NAME	DESCRIPTION
System. Component Model. Data Annotations. Validation Context	validationContext	The context information about the validation operation.

Returns

ТУРЕ	DESCRIPTION
System. Component Model. Data Annotations. Validation Result	An instance of the System.ComponentModel.DataAnnotations.ValidationResult.

Overrides

System. Component Model. Data Annotations. Validation Attribute. Is Valid (System. Object, System. Component Model. Data Annotations. Validation Context)

Class OneOfAttribute

Specifies the allowed values for a property or a field.

Inheritance

System.Object

System.Attribute

System.ComponentModel.DataAnnotations.ValidationAttribute

OneOfAttribute

Inherited Members

System.ComponentModel.DataAnnotations.ValidationAttribute.FormatErrorMessage(System.String)

System. Component Model. Data Annotations. Validation Attribute. Get Validation Result (System. Object, Annotation System) and Annotation System. The Annotation System System

System. Component Model. Data Annotations. Validation Context)

System.ComponentModel.DataAnnotations.ValidationAttribute.IsValid(System.Object)

System. Component Model. Data Annotations. Validation Attribute. Validate (System. Object, Annotations) and the system of the property of th

System.ComponentModel.DataAnnotations.ValidationContext)

System.ComponentModel.DataAnnotations.ValidationAttribute.Validate(System.Object, System.String)

System. Component Model. Data Annotations. Validation Attribute. Error Message

System. Component Model. Data Annotations. Validation Attribute. Error Message Resource Name and Strategies a

System. Component Model. Data Annotations. Validation Attribute. Error Message Resource Type

System. Component Model. Data Annotations. Validation Attribute. Error Message String and String

System. Component Model. Data Annotations. Validation Attribute. Requires Validation Context

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Assembly, System. Type, System. Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.IsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System. Attribute. Is Defined (System. Reflection. Member Info, System. Type, System. Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

Namespace: PerpetualIntelligence.Shared.Attributes.Validation

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.Property | AttributeTargets.Field, AllowMultiple = false, Inherited = false)]
[WriteUnitTest]
public sealed class OneOfAttribute : ValidationAttribute

Constructors

OneOfAttribute(Object[])

Initializes a new instance with the specified allowed values.

Declaration

public OneOfAttribute(params object[] allowedValues)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Object[]	allowedValues	Allowed values

Properties

AllowedValues

The allowed values.

Declaration

public object[] AllowedValues { get; }

Property Value

ТУРЕ	DESCRIPTION
System.Object[]	

Methods

IsValid(Object, ValidationContext)

Validates the specified value with respect to the current validation attribute.

Declaration

protected override ValidationResult IsValid(object value, ValidationContext validationContext)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Object	value	The value to validate.
System. Component Model. Data Annotations. Validation Context	validationContext	The context information about the validation operation.

Returns

ТҮРЕ	DESCRIPTION
System. Component Model. Data Annotations. Validation Result	An instance of the System.ComponentModel.DataAnnotations.ValidationResult.

Overrides

System. Component Model. Data Annotations. Validation Attribute. Is Valid (System. Object, System. Component Model. Data Annotations. Validation Context)

Class SelectItemAttribute

Specifies the allowed string values on the property.

Inheritance

System.Object

System.Attribute

SelectItemAttribute

Inherited Members

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Member Info, System. Type)

System. Attribute. Get Custom Attribute (System. Reflection. Member Info, System. Type, System. Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.lsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

 $Assembly: \ Perpetual Intelligence. Shared. d II\\$

Syntax

[AttributeUsage(AttributeTargets.Property, AllowMultiple = true, Inherited = false)]
[Refactor("Move this to rendering.")]
public class SelectItemAttribute : Attribute

Constructors

SelectItemAttribute(String, String)

Declaration

public SelectItemAttribute(string name, string value)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	name	
System.String	value	

Properties

Description

Item display description.

Declaration

public string Description { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Disabled

Item disability.

Declaration

public bool Disabled { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

Name

Item display name.

Declaration

public string Name { get; }

ТУРЕ	DESCRIPTION
System.String	

Obsolete

The item value is obsolete.

Declaration

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

Property Value

ТУРЕ	DESCRIPTION
System.Boolean	

Value

Item value.

Declaration

```
public string Value { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Class StringLengthListAttribute

Specifies the minimum and maximum length of characters that are allowed in each data field of a list.

Inheritance

System.Object

System.Attribute

System. Component Model. Data Annotations. Validation Attribute

System. Component Model. Data Annotations. String Length Attribute

StringLengthListAttribute

Inherited Members

System.ComponentModel.DataAnnotations.StringLengthAttribute.FormatErrorMessage(System.String)

System. Component Model. Data Annotations. String Length Attribute. Maximum Length Attribute. The string Length Attribute and the string Length Attribute and the string Length Attribute and the string Length Attribute. The string Length Attribute and t

System. Component Model. Data Annotations. String Length Attribute. Minimum Length Attribute and Annotations and Annotations

System. Component Model. Data Annotations. Validation Attribute. Get Validation Result (System. Object, Annotation System) and Annotations are also as a function of the Component Model. Data Annotations are also as a function of the Component Model. Data Annotations are also as a function of the Component Model. Data Annotations are also as a function of the Component Model. Data Annotations are also as a function of the Component Model. Data Annotations are also as a function of the Component Model. Data Annotations are also as a function of the Component Model. Data Annotations are also as a function of the Component Model. Data Annotations are also as a function of the Component Model. Data Annotation of the Com

System.ComponentModel.DataAnnotations.ValidationContext)

System. Component Model. Data Annotations. Validation Attribute. Validate (System. Object, Annotations) and the property of the property of

System.ComponentModel.DataAnnotations.ValidationContext)

System.ComponentModel.DataAnnotations.ValidationAttribute.Validate(System.Object, System.String)

System. Component Model. Data Annotations. Validation Attribute. Error Message

System. Component Model. Data Annotations. Validation Attribute. Error Message Resource Name and Strategies a

System. Component Model. Data Annotations. Validation Attribute. Error Message Resource Type

System. Component Model. Data Annotations. Validation Attribute. Error Message String

System. Component Model. Data Annotations. Validation Attribute. Requires Validation Context. The property of the property o

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Module, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type, System. Boolean)

System.Attribute.GetHashCode()

System.Attribute.IsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

Namespace: PerpetualIntelligence.Shared.Attributes.Validation

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public class StringLengthListAttribute : StringLengthAttribute

Constructors

StringLengthListAttribute(Int32)

Initialize a new instance.

Declaration

public StringLengthListAttribute(int maximumLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	maximumLength	

Methods

IsValid(Object)

Declaration

public override bool IsValid(object value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Object	value	

Returns

ТУРЕ	DESCRIPTION
System.Boolean	

Overrides

System.ComponentModel.DataAnnotations.StringLengthAttribute.lsValid(System.Object)

IsValid(Object, ValidationContext)

Validates the specified value with respect to the current validation attribute.

Declaration

protected override ValidationResult IsValid(object value, ValidationContext validationContext)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Object	value	The value to validate.
System. Component Model. Data Annotations. Validation Context	validationContext	The context information about the validation operation.

Returns

ТҮРЕ	DESCRIPTION
System. Component Model. Data Annotations. Validation Result	An instance of the System.ComponentModel.DataAnnotations.ValidationResult.

Overrides

System. Component Model. Data Annotations. Validation Attribute. Is Valid (System. Object, System. Component Model. Data Annotations. Validation Context)

Class UrlListAttribute

Specifies that a data field value is a list of well formed URL.

Inheritance

System.Object

System.Attribute

System.ComponentModel.DataAnnotations.ValidationAttribute

UrlListAttribute

Inherited Members

System. Component Model. Data Annotations. Validation Attribute. For mat Error Message (System. String)

System. Component Model. Data Annotations. Validation Attribute. Get Validation Result (System. Object, Annotation System) and Annotation System. The Annotation System System

System. Component Model. Data Annotations. Validation Context)

System.ComponentModel.DataAnnotations.ValidationAttribute.IsValid(System.Object,

System. Component Model. Data Annotations. Validation Context)

System.ComponentModel.DataAnnotations.ValidationAttribute.Validate(System.Object,

System. Component Model. Data Annotations. Validation Context)

System.ComponentModel.DataAnnotations.ValidationAttribute.Validate(System.Object, System.String)

System. Component Model. Data Annotations. Validation Attribute. Error Message

System. Component Model. Data Annotations. Validation Attribute. Error Message Resource Name and Strategies a

System. Component Model. Data Annotations. Validation Attribute. Error Message Resource Type

System. Component Model. Data Annotations. Validation Attribute. Error Message String

System. Component Model. Data Annotations. Validation Attribute. Requires Validation Context

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attribute (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Assembly, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Parameter Info, System. Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System. Attribute. Get Hash Code ()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

Namespace: PerpetualIntelligence.Shared.Attributes.Validation

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[AttributeUsage(AttributeTargets.Property | AttributeTargets.Field | AttributeTargets.Parameter, AllowMultiple = false)]
public class UrlListAttribute : ValidationAttribute

Methods

IsValid(Object)

Declaration

public override bool IsValid(object value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Object	value	

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

Overrides

System. Component Model. Data Annotations. Validation Attribute. Is Valid (System. Object)

Namespace PerpetualIntelligence.Shared.Exceptions

Classes

${\color{red} Error Exception}$

The exception that represents an error.

${\bf MultiErrorException}$

The exception that represents multiple errors.

Class ErrorException

The exception that represents an error. Inheritance System.Object System.Exception ErrorException Implements System.Runtime.Serialization.ISerializable Inherited Members System.Exception.GetBaseException() System.Exception.GetObjectData(System.Runtime.Serialization.SerializationInfo, System.Runtime.Serialization.StreamingContext) System.Exception.GetType() System.Exception.ToString() System.Exception.Data System.Exception.HelpLink System.Exception.HResult System.Exception.InnerException System.Exception.Source System.Exception.StackTrace System.Exception.TargetSite System.Exception.SerializeObjectState System.Object.Equals(System.Object) System.Object.Equals(System.Object, System.Object) System.Object.GetHashCode() System.Object.MemberwiseClone() System.Object.ReferenceEquals(System.Object, System.Object) Namespace: PerpetualIntelligence.Shared.Exceptions Assembly: PerpetualIntelligence.Shared.dll Syntax public class ErrorException : Exception, ISerializable Constructors ErrorException() Initialize a new instance. Declaration

public ErrorException()

ErrorException(Error)

Initialize a new instance.

Declaration

public ErrorException(Error error)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Error	error	The error.

ErrorException(String)

Initialize a new instance.

Declaration

public ErrorException(string message)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	message	The exception message.

ErrorException(String, String)

Initialize a new instance.

Declaration

public ErrorException(string error, string errorDescription)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	error	The error code.
System.String	errorDescription	The error description.

ErrorException(String, String, Object[])

Initializes a new error exception.

Declaration

public ErrorException(string error, string errorDescription, params object[] args)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	error	The error code.
System.String	errorDescription	The error description.

ТҮРЕ	NAME	DESCRIPTION
System.Object[]	args	The error description format arguments.

Properties

Error

The error.

Declaration

public Error Error { get; set; }

Property Value

ТУРЕ	DESCRIPTION
Error	

Message

The exception message.

Declaration

public override string Message { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Overrides

System.Exception.Message

Implements

System. Runtime. Serialization. IS erializable

Class MultiErrorException

The exception that represents multiple errors.

Inheritance

System.Object

System.Exception

MultiErrorException

Implements

System.Runtime.Serialization.ISerializable

Inherited Members

System.Exception.GetBaseException()

System. Exception. Get Object Data (System. Runtime. Serialization. Serialization Info, System. Runtime. Serialization. Streaming Context)

System.Exception.GetType()

System.Exception.ToString()

System.Exception.Data

System.Exception.HelpLink

System.Exception.HResult

System.Exception.InnerException

System.Exception.Message

System.Exception.Source

System.Exception.StackTrace

System.Exception.TargetSite

System.Exception.SerializeObjectState

System.Object.Equals(System.Object)

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

System.Object.GetHashCode()

System.Object.MemberwiseClone()

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

Namespace: PerpetualIntelligence.Shared.Exceptions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public class MultiErrorException : Exception, ISerializable

Constructors

MultiErrorException()

Initializes a new instance.

Declaration

public MultiErrorException()

MultiErrorException(Error[], String)

Initialize a new instance with the specified errors and an exception message.

Declaration

public MultiErrorException(Error[] errors, string message)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Error[]	errors	The errors.
System.String	message	The exception message.

MultiErrorException (IEnumerable < Error >)

Initialize a new instance with the specified errors.

Declaration

public MultiErrorException(IEnumerable<Error> errors)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Collections.Generic.IEnumerable < Error >	errors	The errors.

Properties

Errors

The errors in this exception.

Declaration

public IEnumerable<Error> Errors { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Collections.Generic.IEnumerable < Error >	

Implements

System. Runtime. Serialization. ISerializable

Namespace PerpetualIntelligence.Shared.Extensions

Classes

IEnumerableExtensions

 $System. Collections. Generic. I Enumerable < T > \ extension \ methods.$

ILoggerExtensions

The Microsoft.Extensions.Logging.ILogger<TCategoryName> extension methods.

JsonElementExtensions

System.Text.Json.JsonElement extension methods

${\bf String Extensions}$

System.String extension methods.

Class IEnumerableExtensions

System.Collections.Generic.IEnumerable<T> extension methods.

Inheritance

System.Object

IEnumerableExtensions

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: Perpetual Intelligence. Shared. Extensions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public static class IEnumerableExtensions

Methods

HasDuplicates<T, TProp>(IEnumerable<T>, Func<T, TProp>)

Determines whether the sequence contains duplicate elements.

Declaration

[WriteUnitTest]

public static bool HasDuplicates<T, TProp>(this IEnumerable<T> list, Func<T, TProp> selector)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Collections.Generic.IEnumerable < T >	list	The sequence to check.
System.Func <t, tprop=""></t,>	selector	The selector predicate.

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

Type Parameters

NAME	DESCRIPTION
Т	The type of element.

NAME	DESCRIPTION
TProp	The selector predicate.

IsNullOrEmpty<T>(IEnumerable<T>)

Determines whether the sequence is null or empty.

Declaration

public static bool IsNullOrEmpty<T>(this IEnumerable<T> list)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Collections.Generic.IEnumerable <t></t>	list	The sequence to check.

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

Type Parameters

NAME	DESCRIPTION
Т	

Class ILoggerExtensions

The Microsoft.Extensions.Logging.ILogger < TCategory Name > extension methods.

Inheritance

System.Object

ILoggerExtensions

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: Perpetual Intelligence. Shared. Extensions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public static class ILoggerExtensions

Methods

FormatAndLog(ILogger, LogLevel, LoggingOptions, String, Object[])

Logs the formated message and returns the logged message for downstream processing.

Declaration

public static string FormatAndLog(this ILogger logger, LogLevel logLevel, LoggingOptions loggingOptions, string message, params object[] args)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	logger	
Microsoft.Extensions.Logging.LogLevel	logLevel	
LoggingOptions	loggingOptions	
System.String	message	
System.Object[]	args	

Returns

ТУРЕ	DESCRIPTION
System.String	

Class JsonElementExtensions

System.Text.Json.JsonElement extension methods

Inheritance

System.Object

JsonElementExtensions

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: Perpetual Intelligence. Shared. Extensions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[WriteUnitTest]

public static class JsonElementExtensions

Methods

ToClaims(JsonElement, String, String[])

Converts the System.Text.Json.JsonElement to a list of System.Security.Claims.Claim.

Declaration

public static Claim[] ToClaims(this JsonElement json, string issuer = null, params string[] excludeKeys)

Parameters

ТҮРЕ	NAME	DESCRIPTION	
System.Text.Json.JsonElement	json	The System.Text.Json.JsonElement containing claims.	
System.String	issuer	Optional issuer name to add to claims.	
System.String[]	excludeKeys	Claims to exclude.	

Returns

ТҮРЕ	DESCRIPTION
System.Security.Claims.Claim[]	An array of System.Security.Claims.Claim.

Remarks

All the claim values are converted to string.

TryGetBoolean(JsonElement, String)

Attempts to get a boolean from a System.Text.Json.JsonElement.

Declaration

public static bool? TryGetBoolean(this JsonElement json, string name)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Text.Json.JsonElement	json	The System.Text.Json.JsonElement
System.String	name	The name of the property to find.

Returns

ТУРЕ	DESCRIPTION
System.Nullable < System.Boolean >	

TryGetInt(JsonElement, String)

Attempts to get an int from a System.Text.Json.JsonElement.

Declaration

public static int? TryGetInt(this JsonElement json, string name)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Text.Json.JsonElement	json	The System.Text.Json.JsonElement.
System.String	name	The name of the property to find.

Returns

ТУРЕ	DESCRIPTION
System.Nullable < System.Int32 >	

TryGetString(JsonElement, String)

Attempts to get a string from a System.Text.Json.JsonElement.

Declaration

public static string TryGetString(this JsonElement json, string name)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Text.Json.JsonElement	json	The System.Text.Json.JsonElement.
System.String	name	The name of the property to find.

Returns

ТҮРЕ	DESCRIPTION
System.String	

TryGetStringArray(JsonElement, String)

Attempts to get an array of string from a System.Text.Json.JsonElement.

Declaration

public static IEnumerable<string> TryGetStringArray(this JsonElement json, string name)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Text.Json.JsonElement	json	The System.Text.Json.JsonElement.
System.String	name	The name of the property to find.

Returns

ТҮРЕ	DESCRIPTION
System.Collections.Generic.IEnumerable < System.String >	

TryGetValue(JsonElement, String)

Attempts to get a value from a System.TextJson.JsonElement.

Declaration

public static JsonElement TryGetValue(this JsonElement json, string name)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Text.Json.JsonElement	json	The System.Text.Json.JsonElement.
System.String	name	The name of the property to find.

ТҮРЕ	DESCRIPTION
System.Text.Json.JsonElement	

Class StringExtensions

System.String extension methods.

Inheritance

System.Object

StringExtensions

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: Perpetual Intelligence. Shared. Extensions

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public static class StringExtensions

Methods

EmptyIfNull(String)

Returns an empty string if this string is null.

Declaration

public static string EmptyIfNull(this string self)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	self	The string to check.

Returns

ТҮРЕ	DESCRIPTION
System.String	true if string is not null or white space, otherwise false.

IsNotNullOrWhiteSpace(String)

Determines if the string is not null or white space.

Declaration

public static bool IsNotNullOrWhiteSpace(this string self)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	self	The string to check.

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	true if string is not null or white space, otherwise false.

IsNullOrEmpty(String)

Determines if the string is null or empty.

Declaration

public static bool IsNullOrEmpty(this string self)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	self	The string to check.

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	true if string is null or empty, otherwise false.

IsNullOrWhiteSpace(String)

Determines if the string is null or white space.

Declaration

public static bool IsNullOrWhiteSpace(this string self)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	self	The string to check.

Returns

ТУРЕ	DESCRIPTION
System.Boolean	true if string is null or empty, otherwise false.

JoinByNewline(IEnumerable<String>)

Joins the string collection with a System.Environment.NewLine separator.

Declaration

public static string JoinByNewline(this IEnumerable<string> list)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Collections.Generic.IEnumerable < System.String >	list	A collection of string to join.

Returns

ТҮРЕ	DESCRIPTION
System.String	A joined string.

JoinBySpace(IEnumerable < String >)

Joins the string collection with a space separator.

Declaration

public static string JoinBySpace(this IEnumerable<string> list)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Collections.Generic.IEnumerable < System.String >	list	A collection of string to join.

Returns

т	YPE	DESCRIPTION
S	ystem.String	A joined string.

NotNull(String)

Returns a non null string.

Declaration

public static string NotNull(this string self)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	self	The string to check.

Returns

ТҮРЕ	DESCRIPTION
System.String	true if string is not null or white space, otherwise false.

Repeat(String, Int32)

Repeats the string for the specified times.

Declaration

public static string Repeat(this string value, int count)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	value	The value to repeat.
System.Int32	count	The count.

Returns

ТУРЕ	DESCRIPTION
System.String	New repeated string.

SplitByNewline(String)

Splits the string with a System.Environment.NewLine

Declaration

public static string[] SplitByNewline(this string self)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	self	The string to split.

Returns

ТҮРЕ	DESCRIPTION
System.String[]	An array of string split by newline separator.

SplitBySpace(String)

Splits the string with a space separator.

Declaration

public static string[] SplitBySpace(this string self)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	self	The string to split.

Returns

ТҮРЕ	DESCRIPTION
System.String[]	An array of string split by space separator.

TrimEnd(String, String, StringComparison)

Removes the trailing occurrence of a string recursively.

Declaration

public static string TrimEnd(this string self, string trim, StringComparison stringComparison)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	self	The string to trim.
System.String	trim	The string to trim from start.
System. String Comparison	stringComparison	The string comparison.

Returns

ТҮРЕ	DESCRIPTION
System.String	

TrimStart(String, StringComparison)

Removes the leading occurrence of a string recursively.

Declaration

public static string TrimStart(this string self, string trim, StringComparison stringComparison)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	self	The string to trim.

ТҮРЕ	NAME	DESCRIPTION
System.String	trim	The string to trim from start.
System. String Comparison	stringComparison	The string comparison.

Returns

ТУРЕ	DESCRIPTION
System.String	

Namespace PerpetualIntelligence.Shared.Infrastructure

Classes

Custom Data Types

The custom data types to support System.ComponentModel.DataAnnotations.DataType.Custom.

Error

The generic error.

Identity

Identifies an entity uniquely with an id and an optional partition_id, if the entity is partitioned.

LocalStorageKeys

The oneimlx local storage keys.

LoggingOptions

The generic logging configuration options.

Modeldentity

An Identity with mode support.

Modes

Defines the commonly used modes.

OrgConstants

The Perpetual Intelligence organizational constants.

RegexPatterns

Defines commonly used REGEX patterns.

TryResultOrError<T>

The generic result of a trying method. The trying method must return an error or a valid result. Both Error and Result cannot be null.

Delegates

ResultDelegate < TContext, TResult >

The delegate that returns a result for the specified context.

Class CustomDataTypes

The custom data types to support System.ComponentModel.DataAnnotations.DataType.Custom.

Inheritance

System.Object

CustomDataTypes

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: Perpetual Intelligence. Shared. In frastructure

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public sealed class CustomDataTypes

Fields

Bool

The System.Boolean custom data type.

Declaration

public const string Bool = "urn:oneimlx:cdt:bool"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Double

The System.Double custom data type.

Declaration

public const string Double = "urn:oneimlx:cdt:double"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Enumeration

The System.Enum custom data type.

Declaration

public const string Enumeration = "urn:oneimlx:cdt:enum"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Float

The System.Single custom data type.

Declaration

public const string Float = "urn:oneimlx:cdt:float"

Field Value

ТУРЕ	DESCRIPTION
System.String	

Int

The System.Int32 custom data type.

Declaration

public const string Int = "urn:oneimlx:cdt:int"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Long

The System.Int64 custom data type.

Declaration

public const string Long = "urn:oneimlx:cdt:long"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

MultiSelect

The multi-selection custom data type.

Declaration

public const string MultiSelect = "urn:oneimlx:cdt:mselect"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Short

The System.Int16 custom data type.

Declaration

public const string Short = "urn:oneimlx:cdt:short"

Field Value

ТУРЕ	DESCRIPTION
System.String	

SingleSelect

The single-selection custom data type.

Declaration

public const string SingleSelect = "urn:oneimlx:cdt:sselect"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

StringDictionary

The string key-value pairs custom data type.

Declaration

public const string StringDictionary = "urn:oneimlx:cdt:sdict"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

StringList

The string list or collection custom data type.

Declaration

public const string StringList = "urn:oneimlx:cdt:slist"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

SubObject

The sub-object custom data type.

Declaration

<pre>public const string SubObject = "urn:oneimlx:cdt:so"</pre>

Field Value

ТҮРЕ	DESCRIPTION
System.String	

${\sf SubObjectList}$

The sub-object list or collection custom data type.

Declaration

public const string SubObjectList = "urn:oneimlx:cdt:solist"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Class Error

The generic error.

Inheritance

System.Object

Error

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: Perpetual Intelligence. Shared. In frastructure

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public class Error

Constructors

Error()

Initialize a new instance.

Declaration

public Error()

Error(String, String, Object[])

Initialize a new instance.

Declaration

public Error(string error, string errorDescription, params object[] args)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	error	The error code.
System.String	errorDescription	The error description.
System.Object[]	args	The error description format arguments.

Error(String, String, Object[], String, String)

Initialize a new instance.

Declaration

public Error(string error, string errorDescription, object[] args = null, string errorUri = null, string requestId = null)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	error	The error code.
System.String	errorDescription	The error description.
System.Object[]	args	The error description format arguments./
System.String	errorUri	The error URI.
System.String	requestId	The request id.

Fields

AlreadyExist

The not found error.

Declaration

[JsonIgnore]
public const string AlreadyExist = "already_exist"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Invalid Configuration

The invalid request error.

Declaration

[JsonIgnore]
public const string InvalidConfiguration = "invalid_configuration"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Invalid Request

The invalid request error.

Declaration

[JsonIgnore]
public const string InvalidRequest = "invalid_request"

Field Value

ТУРЕ	DESCRIPTION
System.String	

NotFound

The not found error.

Declaration

```
[JsonIgnore]
public const string NotFound = "not_found"
```

Field Value

ТУРЕ	DESCRIPTION
System.String	

ServerError

The server error.

Declaration

```
[JsonIgnore]

public const string ServerError = "server_request"
```

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Unauthorized

The unauthorized error.

Declaration

```
[JsonIgnore]
public const string Unauthorized = "unauthorized_access"
```

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Unexpected

The unexpected error.

Declaration

```
[JsonIgnore]
public const string Unexpected = "unexpected_error"
```

Field Value

ТУРЕ	DESCRIPTION
System.String	

Properties

Args

The error description format arguments.

Declaration

```
[JsonPropertyName("args")]
[JsonIgnore(Condition = JsonIgnoreCondition.WhenWritingNull)]
public object[] Args { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.Object[]	

ErrorCode

The error code. Defaults to unexpected_error.

Declaration

```
[JsonPropertyName("error")]
public string ErrorCode { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

ErrorDescription

The error_description.

Declaration

```
[JsonPropertyName("error_description")]
[JsonIgnore(Condition = JsonIgnoreCondition.WhenWritingNull)]
public string ErrorDescription { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

ErrorUri

The error_uri.

Declaration

```
[JsonPropertyName("error_uri")]
[JsonIgnore(Condition = JsonIgnoreCondition.WhenWritingNull)]
public string ErrorUri { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

RequestId

The request identifier request_id.

Declaration

```
[JsonPropertyName("request_id")]
[JsonIgnore(Condition = JsonIgnoreCondition.WhenWritingNull)]
public string RequestId { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Methods

FormatDescription()

Format the Error Description with the Args.

Declaration

```
[WriteUnitTest]
public string FormatDescription()
```

Returns

ΤY	PE	DESCRIPTION
Sys	stem.String	Formatted error description.

FormatError()

Creates a new Error instance with formated ErrorDescription with the Args.

Declaration

```
[WriteUnitTest]
public Error FormatError()
```

Returns

ТҮРЕ	DESCRIPTION
Error	Formatted error instance.

MapHttpStatusCode()

 ${\it Maps the \ Error Code}\ to\ System. Net. Http Status Code$

Declaration

public HttpStatusCode MapHttpStatusCode()

Returns

ТҮРЕ	DESCRIPTION
System.Net.HttpStatusCode	

SetError(String, String, Object[], String, String)

Set an error.

Declaration

public void SetError(string error, string errorDescription, object[] args = null, string errorUri = null, string requestId = null)

Parameters

. a.a.motoro		
ТУРЕ	NAME	DESCRIPTION
System.String	error	
System.String	errorDescription	
System.Object[]	args	
System.String	errorUri	
System.String	requestId	

Class Identity

Identifies an entity uniquely with an id and an optional partition_id, if the entity is partitioned.

Inheritance

System.Object

Identity

Modeldentity

Inherited Members

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

Namespace: PerpetualIntelligence.Shared.Infrastructure

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public class Identity

Constructors

Identity(String)

Initializes a new instance.

Declaration

[JsonConstructor]
public Identity(string id)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	The id.

Identity(String, String)

Initializes a new instance.

Declaration

public Identity(string partitionId, string id)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	partitionId	The partition id.
System.String	id	The id.

Properties

The identifier.

Declaration

```
[JsonPropertyName("id")]
public string Id { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

IsPartitioned

Determines if the identity has a partition_id.

Declaration

```
[JsonIgnore]
public bool IsPartitioned { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

PartitionId

The partition identifier.

Declaration

```
[JsonPropertyName("partition_id")]
[JsonIgnore(Condition = JsonIgnoreCondition.WhenWritingNull)]
public string PartitionId { get; set; }
```

Property Value

ТУРЕ	DESCRIPTION
System.String	

Methods

Equals(Identity)

Declaration

```
public bool Equals(Identity other)
```

Parameters

ТҮРЕ	NAME	DESCRIPTION
Identity	other	

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

Equals(Object)

Declaration

public override bool Equals(object obj)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Object	obj	

Returns

ТУРЕ	DESCRIPTION
System.Boolean	

Overrides

System.Object.Equals(System.Object)

GetHashCode()

Declaration

public override int GetHashCode()

Returns

ТҮРЕ	DESCRIPTION
System.Int32	

Overrides

System.Object.GetHashCode()

ToString()

Declaration

public override string ToString()

Returns

ТУРЕ	DESCRIPTION
System.String	

Overrides

System.Object.ToString()

Operators

Equality(Identity, Identity)

Declaration

Parameters

ТҮРЕ	NAME	DESCRIPTION
Identity	left	
Identity	right	

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

Inequality(Identity, Identity)

Declaration

public static bool operator !=(Identity left, Identity right)

Parameters

ТУРЕ	NAME	DESCRIPTION
Identity	left	
Identity	right	

Returns

ТУРЕ	DESCRIPTION
System.Boolean	

Class LocalStorageKeys

The oneimlx local storage keys.

Inheritance

System.Object

LocalStorageKeys

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: PerpetualIntelligence.Shared.Infrastructure

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public sealed class LocalStorageKeys

Remarks

NOTE: This class is part of the Perpetual Intelligence infrastructure. Please do not use it directly in your application code.

Fields

IsDiagnostic

Determines the diagnostic state from the local storage.

Declaration

public const string IsDiagnostic = "urn:oneimlx:lsk:isdiag"

Field Value

ТУРЕ	DESCRIPTION
System.String	

IsLocalizationPrefixed

Determines whether to show the localizer profix.

Declaration

public const string IsLocalizationPrefixed = "urn:oneimlx:lsk:isl10prefixed"

Field Value

ТУРЕ	DESCRIPTION
System.String	

LayerLuminance

Determines the layer luminance for the fast color theme.

Declaration

public const string LayerLuminance = "urn:oneimlx:lsk:layer"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Class LoggingOptions

The generic logging configuration options.

Inheritance

System.Object

LoggingOptions

HostingOptions

LoggingOptions

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: PerpetualIntelligence.Shared.Infrastructure

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public class LoggingOptions

Properties

ObscureErrorArgumentString

The string used to obscure error arguments. Defaults to ****.

Declaration

public string ObscureErrorArgumentString { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

See Also

ObsureErrorArguments

ObsureErrorArguments

Obscures the arguments in the error description to hide the sensitive data. Defaults to true.

Declaration

public bool ObsureErrorArguments { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

Use ObscureErrorArgumentString to configure the obscure string.

See Also

ObscureErrorArgumentString

Class Modeldentity

An Identity with mode support.

Inheritance

System.Object

Identity

Modeldentity

Inherited Members

Identity.Id

Identity.IsPartitioned

Identity.PartitionId

Identity.Equals(Object)

Identity.Equals(Identity)

Identity.GetHashCode()

Identity.ToString()

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

Namespace: PerpetualIntelligence.Shared.Infrastructure

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public sealed class ModeIdentity : Identity

Constructors

Modeldentity(String, String, String)

Declaration

public ModeIdentity(string mode, string partitionId, string id)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	mode	
System.String	partitionId	
System.String	id	

Properties

Mode

The mode.

Declaration

```
[JsonPropertyName("mode")]
public string Mode { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

See Also

Modes

Class Modes

Defines the commonly used modes.

Inheritance

System.Object

Modes

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: PerpetualIntelligence.Shared.Infrastructure

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public static class Modes

Fields

Live

Live or production mode.

Declaration

public const string Live = "urn:oneimlx:mode:live"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Neutral

Neutral or no mode.

Declaration

public const string Neutral = "urn:oneimlx:mode:neutral"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Stage

Staging or pre-production mode.

Declaration

public const string Stage = "urn:oneimlx:mode:stage"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Test

Test or sandbox mode.

Declaration

public const string Test = "urn:oneimlx:mode:test"

Field Value

ТУРЕ	DESCRIPTION
System.String	

Methods

All()

Returns all the supported modes.

Declaration

public static string[] All()

Returns

ТҮРЕ	DESCRIPTION
System.String[]	Array of all the supported modes.

IsTestOrLive(String)

Determines if the specified mode is Test or Live.

Declaration

public static bool IsTestOrLive(string mode)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	mode	

Returns

ТУРЕ	DESCRIPTION
System.Boolean	true if the specified mode is Test or Live, otherwise false.

IsValid(String)

Determines if the mode is valid.

Declaration

public static bool IsValid(string mode)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	mode	

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	true if the specified mode is valid, otherwise false.

ThrowIfInvalid(String)

Throws an exception if the specified mode is not valid.

Declaration

public static void ThrowIfInvalid(string mode)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	mode	Environment to validate.

See Also

Modeldentity

Class OrgConstants

The Perpetual Intelligence organizational constants.

Inheritance

System.Object

OrgConstants

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: Perpetual Intelligence. Shared. In frastructure

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public static class OrgConstants

Remarks

NOTE: This class is part of the Perpetual Intelligence infrastructure. Please do not use it directly in your application code.

Fields

FullLogoUrl

The full logo URL.

Declaration

public const string FullLogoUrl =
"https://github.com/perpetualintelligence/branding/blob/main/Logo/pi_full_575_256.png"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

FullName

The full name.

Declaration

public const string FullName = "Perpetual Intelligence L.L.C."

Field Value

ТҮРЕ	DESCRIPTION
System.String	

GitHub

The GitHub URL.

Declaration

public const string GitHub = "https://github.com/perpetualintelligence"

Field Value

ТУРЕ	DESCRIPTION
System.String	

LogoUrl

The logo URL.

Declaration

public const string LogoUrl = "https://github.com/perpetualintelligence/branding/blob/main/Logo/icon.png"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Policies

The terms of use, operation and data policies.

Declaration

public const string Policies = "https://terms.perpetualintelligence.com/articles/intro.html"

Field Value

ТУРЕ	DESCRIPTION
System.String	

ShortName

The short name.

Declaration

public const string ShortName = "Perpetual Intelligence"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Class RegexPatterns

Defines commonly used REGEX patterns.

Inheritance

System.Object

RegexPatterns

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: Perpetual Intelligence. Shared. In frastructure

Assembly: PerpetualIntelligence.Shared.dll

Syntax

[WriteUnitTest]

public static class RegexPatterns

Fields

Letters

Pattern containing only letters a-z or A-Z.

Declaration

public const string Letters = "^[a-zA-Z]+\$"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

LettersNumbersDashUnderscore

Pattern containing only letters a-z or A-Z, numbers 0-9, dash, and underscore.

Declaration

public const string LettersNumbersDashUnderscore = "^([A-Za-z0-9-]_?)+\$"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Letters Numbers Dash Underscore Comma

Pattern containing only letters a-z or A-Z, numbers 0-9, dash, underscore and comma.

Declaration

public const string LettersNumbersDashUnderscoreComm	= "^([A-Za-z0-9-]_,?)+\$"	
--	---------------------------	--

Field Value

ТУРЕ	DESCRIPTION
System.String	

Letters Numbers Dash Underscore Space

Pattern containing only letters a-z or A-Z, numbers 0-9, dash, and underscore.

Declaration

public const string LettersNumbersDashUnderscoreSpace = "^([A-Za-z0-9][\\-\\h_]?)+\$"

Field Value

ТУРЕ	DESCRIPTION
System.String	

Delegate ResultDelegate < TContext, TResult >

The delegate that returns a result for the specified context.

Name space: Perpetual Intelligence. Shared. Infrastructure

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public delegate Task<TResult> ResultDelegate<TContext, TResult>(TContext context)
 where TContext : class where TResult : class;

Parameters

ТУРЕ	NAME	DESCRIPTION
TContext	context	

Returns

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

Type Parameters

NAME	DESCRIPTION
TContext	
TResult	

Class TryResultOrError<T>

The generic result of a trying method. The trying method must return an error or a valid result. Both Error and Result cannot be null.

Inheritance

System.Object

TryResultOrError<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: PerpetualIntelligence.Shared.Infrastructure

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public sealed class TryResultOrError<T>
 where T : class

Type Parameters

NAME	DESCRIPTION
Т	The result type.

Constructors

TryResultOrError(T)

Initialize a new instance.

Declaration

public TryResultOrError(T result)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Т	result	

TryResultOrError(Error)

Initialize a new instance.

Declaration

public TryResultOrError(Error error)

ТҮРЕ	NAME	DESCRIPTION
Error	error	

Properties

Error

The result of a try.

Declaration

public Error Error { get; }

Property Value

ТУРЕ	DESCRIPTION
Error	

Result

The result of a try.

Declaration

public T Result { get; }

Property Value

ТУРЕ	DESCRIPTION
Т	

Namespace PerpetualIntelligence.Shared.Patterns

Classes

Decorator<TObject>

Decorator is a structural pattern that allows adding new behaviors to objects dynamically by placing them inside special wrapper objects. Using decorators you can wrap objects countless number of times since both target objects and decorators follow the same interface.

DecoratorService < TService, TImpl >

Decorator < TObject > service for dependency injection.

DisposableDecorator<TObject>

A disposable Decorator < TObject > .

DisposableDecoratorService<TService, TImpl>

The disposable DisposableDecorator < TObject > service for dependency injection.

Class Decorator < TObject >

Decorator is a structural pattern that allows adding new behaviors to objects dynamically by placing them inside special wrapper objects. Using decorators you can wrap objects countless number of times since both target objects and decorators follow the same interface.

Inheritance

System.Object

Decorator < TObject >

DecoratorService < TService, TImpl >

DisposableDecorator < TObject >

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: PerpetualIntelligence.Shared.Patterns

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public class Decorator<TObject>

Type Parameters

NAME	DESCRIPTION
TObject	The inner object type.

Constructors

Decorator(TObject)

Initializes a new instance of decorator.

Declaration

public Decorator(TObject object)

Parameters

ТУРЕ	NAME	DESCRIPTION
TObject	object	The inner object.

Properties

Object

The inner object.

Declaration

|--|--|

Property Value

ТУРЕ	DESCRIPTION
TObject	

See Also

https://en.wikipedia.org/wiki/Decorator_pattern

Class DecoratorService<TService, TImpl>

Decorator < TObject > service for dependency injection.

Inheritance

System.Object

Decorator < TService >

DecoratorService<TService, TImpl>

Inherited Members

Decorator < TService > . Object

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: PerpetualIntelligence.Shared.Patterns

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public class DecoratorService<TService, TImpl> : Decorator<TService> where TImpl : class, TService

Type Parameters

NAME	DESCRIPTION
TService	The service type.
TImpl	The service implementation type.

Constructors

DecoratorService(TImpl)

Initialize a new instance.

Declaration

public DecoratorService(TImpl implementation)

ТҮРЕ	NAME	DESCRIPTION
TImpl	implementation	The service implementation.

Class DisposableDecorator<TObject>

A disposable Decorator < TObject > .

Inheritance

System.Object

Decorator < TObject >

DisposableDecorator < TObject >

DisposableDecoratorService<TService, TImpl>

Implements

System.IDisposable

Inherited Members

Decorator < TObject > . Object

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: PerpetualIntelligence.Shared.Patterns

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public class DisposableDecorator<TObject> : Decorator<TObject>, IDisposable

Type Parameters

NAME	DESCRIPTION
TObject	The inner object type. It can be System.IDisposable.

Constructors

DisposableDecorator(TObject)

Initialize a new instance of decorator.

Declaration

public DisposableDecorator(TObject object)

Parameters

ТҮРЕ	NAME	DESCRIPTION
TObject	object	The inner object.

Methods

Dispose()

Declaration

public virtual void Dispose()

Implements

System.IDisposable

Class DisposableDecoratorService<TService, TImpl>

The disposable DisposableDecorator < TObject > service for dependency injection.

Inheritance

System.Object

Decorator < TService >

DisposableDecorator < TService >

DisposableDecoratorService<TService, TImpl>

Implements

System.IDisposable

Inherited Members

DisposableDecorator < TService > . Dispose()

Decorator < TService > . Object

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: PerpetualIntelligence.Shared.Patterns

Assembly: PerpetualIntelligence.Shared.dll

Syntax

 $public \ class \ Disposable Decorator Service < TService, \ TImpl>: Disposable Decorator < TService>, \ ID is posable \ where \ TImpl: class, \ TService$

Type Parameters

NAME	DESCRIPTION
TService	The service type.
TImpl	The service implementation type.

Constructors

DisposableDecoratorService(TImpl)

Initialize a new instance.

Declaration

public DisposableDecoratorService(TImpl implementation)

ТҮРЕ	NAME	DESCRIPTION
Timpl	implementation	The service implementation.

Implements

System.IDisposable

Namespace PerpetualIntelligence.Shared.Services

Classes

InfraHelper

Provides low level infrastructure helper methods shared across application stack.

UrlSafeBase64Encoder

The URL safe Base64 string encoder. The encoder trims the padding character =, replacing the characters + and / with - (dash) and _ (underscore), respectively.

Class InfraHelper

Provides low level infrastructure helper methods shared across application stack.

Inheritance

System.Object

InfraHelper

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: Perpetual Intelligence. Shared. Services

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public static class InfraHelper

Methods

EnsureResultAsync<TContext, TResult>(ResultDelegate<TContext, TResult>, TContext)

Ensures an action returns a result or an Error but does not throw any exception.

Declaration

```
public static async Task<TryResultOrError<TResult>> EnsureResultAsync<TContext, TResult>
  (ResultDelegate<TContext, TResult> action, TContext context)
  where TContext : class where TResult : class
```

Parameters

ТУРЕ	NAME	DESCRIPTION
ResultDelegate < TContext, TResult >	action	The action to execute.
TContext	context	The action context.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <tryresultorerror<tresult>></tryresultorerror<tresult>	TryResultOrError <t> instance that contains the result or an Error instance.</t>

Type Parameters

NAME	DESCRIPTION
TContext	The context type.

NAME	DESCRIPTION
TResult	The result type.

Format(LoggingOptions, String, Object[])

Formats the error message for downstream processing.

Declaration

public static string Format(LoggingOptions loggingOptions, string message, params object[] args)

Parameters

ТҮРЕ	NAME	DESCRIPTION
LoggingOptions	loggingOptions	The logging options. See LoggingOptions.
System.String	message	The message to format.
System.Object[]	args	The format arguments.

Returns

ТУРЕ	DESCRIPTION
System.String	The formatted error message.

GetParent(String)

Gets the parent directory of a specified path or sub-directory.

Declaration

public static string GetParent(string path)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	path	Path or sub-directory.

Returns

ТҮРЕ	DESCRIPTION
System.String	The parent directory returned by System.IO.DirectoryInfo.Parent property or null if file path denotes a root.

Exceptions

ТУРЕ	CONDITION
System.ArgumentException	Path is null or empty.

See Also

System.IO.Directory.GetParent(String)

GetParent(String, UInt32)

Gets the parent directory at the specified level of a specified path or sub-directory.

Declaration

public static string GetParent(string path, uint level)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	path	Path or sub-directory.
System.UInt32	level	The levels to go up.

Returns

ТҮРЕ	DESCRIPTION
System.String	The parent directory returned by System.IO.DirectoryInfo.Parent for specified level or null if file path denotes a root.

Exceptions

ТҮРЕ	CONDITION
System.ArgumentException	Path is null or empty.

MinPositiveOrZero(Int32, Int32)

Returns a minimum positive of the two numbers or zero.

Declaration

public static int MinPositiveOrZero(int num1, int num2)

ТҮРЕ	NAME	DESCRIPTION
System.Int32	num1	First number to check.
System.Int32	num2	Second number to check.

ТҮРЕ	NAME	DESCRIPTION

Returns

ТУРЕ	DESCRIPTION
System.Int32	A minimum positive number or zero.

Obscure(String, Object[])

Obscures the arguments based on the specified mask.

Declaration

public static object[] Obscure(string mask, params object[] args)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	mask	The obscure mask.
System.Object[]	args	The arguments to obscure.

Returns

ТҮРЕ	DESCRIPTION
System.Object[]	The obscured arguments.

Class UrlSafeBase64Encoder

The URL safe Base64 string encoder. The encoder trims the padding character =, replacing the characters + and / with - (dash) and _ (underscore), respectively.

Inheritance

System.Object

UrlSafeBase64Encoder

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: PerpetualIntelligence.Shared.Services

Assembly: PerpetualIntelligence.Shared.dll

Syntax

public static class UrlSafeBase64Encoder

Methods

Decode(String)

Decodes the specified string.

Declaration

public static byte[] Decode(string value)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	value	The Base64 string.

Returns

ТҮРЕ	DESCRIPTION
Byte[]	The decoded byte array.

Exceptions

ТҮРЕ	CONDITION
System.InvalidOperationException	Invalid Base64 string.

Encode(Byte[])

Encodes the specified byte array.

Declaration

public static string Encode(byte[] value)

Parameters

ТУРЕ	NAME	DESCRIPTION
Byte[]	value	The byte array.

Returns

ТҮРЕ	DESCRIPTION
System.String	The encoded Base64 string.

Utf8Decode(String)

Decodes the specified string and then converts the bytes to a UTF8 string.

Declaration

public static string Utf8Decode(string arg)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	arg	

Returns

ТҮРЕ	DESCRIPTION
System.String	The URL safe string with UTF8 encoding.

Utf8Encode(String)

Encodes the specified string with System.Text.Encoding.UTF8 and then converts the UTF8 bytes to Url safe string.

Declaration

public static string Utf8Encode(string arg)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	arg	

Returns

ТҮРЕ	DESCRIPTION
System.String	The URL safe string with UTF8 encoding.

Namespace PerpetualIntelligence.Test

Classes

ContextTests

Represents a test class that provides TestContext.

HttpClientTests

Represents a ContextTests that provides the HttpClient.

InitializerTests

Represents a ContextTests that provides the initialization and cleanup methods.

LoggerTests<T>

 $Represents\ a\ Context Tests\ that\ provides\ the\ Microsoft. Extensions. Logging. I Logger.$

TestIdAttribute

Represents a test id.

Class ContextTests

Represents a test class that provides TestContext.

Inheritance

System.Object

ContextTests

HttpClientTests

InitializerTests

LoggerTests < 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: PerpetualIntelligence.Test
Assembly: PerpetualIntelligence.Test.dll

Syntax

public abstract class ContextTests

Properties

TestContext

The test context. This property is set automatically by the test engine.

Declaration

public TestContext TestContext { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
Microsoft. Visual Studio. Test Tools. Unit Testing. Test Context	

Class HttpClientTests

Represents a ContextTests that provides the HttpClient.

Inheritance

System.Object

ContextTests

HttpClientTests

Inherited Members

${\tt ContextTests.TestContext}$

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: PerpetualIntelligence.Test

Assembly: PerpetualIntelligence.Test.dll

Syntax

public abstract class HttpClientTests : ContextTests

Constructors

HttpClientTests()

Initialize a new instance.

Declaration

protected HttpClientTests()

HttpClientTests(ILogger)

Initialize a new instance.

Declaration

public HttpClientTests(ILogger logger)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Extensions. Logging. I Logger	logger	

Properties

HttpClient

The HTTP client..

Declaration

protected HttpClient HttpClient { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Net.Http.HttpClient	

Logger

The logger.

Declaration

```
public ILogger Logger { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	

Methods

GetTestServer()

Gets the test server.

Declaration

```
protected abstract TestServer GetTestServer()
```

Returns

ТҮРЕ	DESCRIPTION
Microsoft.AspNetCore.TestHost.TestServer	

ImlxLogTestCleanup()

The test cleanup method that logs and calls OnTestCleanup().

Declaration

```
[TestCleanup]
public void ImlxLogTestCleanup()
```

ImlxLogTestInitialize()

The test initialize method that logs and calls OnTestInitialize().

Declaration

```
[TestInitialize]
public void ImlxLogTestInitialize()
```

OnTestCleanup()

On test cleanup callback.

Declaration

```
protected virtual void OnTestCleanup()
```

OnTestInitialize()

On test initialize callback.

Declaration

protected virtual void OnTestInitialize()

Class InitializerTests

Represents a ContextTests that provides the initialization and cleanup methods.

Inheritance

System.Object

ContextTests

InitializerTests

Inherited Members

${\tt ContextTests.TestContext}$

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: PerpetualIntelligence. Test

Assembly: PerpetualIntelligence.Test.dll

Syntax

public abstract class InitializerTests : ContextTests

Constructors

InitializerTests()

Initialize a new instance.

Declaration

public InitializerTests()

InitializerTests(ILogger)

Initialize a new instance.

Declaration

public InitializerTests(ILogger logger)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Extensions. Logging. I Logger	logger	

Properties

Logger

The logger.

Declaration

public ILogger Logger { get; }

Property Value

ТҮРЕ	DESCRIPTION
Microsoft. Extensions. Logging. I Logger	

Methods

Cleanup()

The test cleanup method that logs and calls OnTestCleanup().

Declaration

[TestCleanup]
public void Cleanup()

Initialize()

The test initialize method that logs and calls OnTestInitialize().

Declaration

[TestInitialize]
public void Initialize()

OnTestCleanup()

On test cleanup callback.

Declaration

protected virtual void OnTestCleanup()

OnTestInitialize()

On test initialize callback.

Declaration

protected virtual void OnTestInitialize()

Class LoggerTests<T>

Represents a ContextTests that provides the Microsoft.Extensions.Logging.lLogger.

Inheritance

System.Object

ContextTests

LoggerTests < T >

Inherited Members

${\tt ContextTests.TestContext}$

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: PerpetualIntelligence.Test

Assembly: PerpetualIntelligence.Test.dll

Syntax

public abstract class LoggerTests<T> : ContextTests

Type Parameters

NAME	DESCRIPTION
Т	

Constructors

LoggerTests()

Initialize a new instance.

Declaration

public LoggerTests()

LoggerTests(ILogger)

Initialize a new instance.

Declaration

public LoggerTests(ILogger logger)

Parameters

ТУРЕ	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	logger	

Properties

Logger

The logger.

Declaration

public ILogger Logger { get; }

Property Value

ТҮРЕ	DESCRIPTION
Microsoft. Extensions. Logging. I Logger	

Methods

Cleanup()

The test cleanup method that logs and calls OnTestCleanup().

Declaration

[TestCleanup]
public void Cleanup()

Initialize()

The test initialize method that logs and calls OnTestInitialize().

Declaration

[TestInitialize]
public void Initialize()

OnTestCleanup()

On test cleanup callback.

Declaration

protected virtual void OnTestCleanup()

OnTestInitialize()

On test initialize callback.

Declaration

protected virtual void OnTestInitialize()

Class TestIdAttribute

Represents a test id.

Inheritance

System.Object

System.Attribute

TestIdAttribute

Inherited Members

System.Attribute.Equals(System.Object)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attribute (System. Reflection. Member Info, System. Type)

System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info)

System. Attribute. Get Custom Attributes (System. Reflection. Member Info, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)

System. Attribute. Get Custom Attributes (System. Reflection. Module, System. Type, System. Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Boolean)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)

System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.GetHashCode()

System.Attribute.lsDefaultAttribute()

System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)

System. Attribute. Is Defined (System. Reflection. Assembly, System. Type, System. Boolean)

System.Attribute.lsDefined(System.Reflection.MemberInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)

System.Attribute.IsDefined(System.Reflection.Module, System.Type)

System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)

System.Attribute.lsDefined(System.Reflection.ParameterInfo, System.Type)

System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)

System.Attribute.Match(System.Object)

System.Attribute.TypeId

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

System.Object.GetType()

System.Object.MemberwiseClone()

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

System.Object.ToString()

 $Assembly: \ Perpetual Intelligence. Test. d II \\$

Syntax

[AttributeUsage(AttributeTargets.Method, AllowMultiple = false, Inherited = false)]
public sealed class TestIdAttribute : Attribute

Remarks

TestIdAttribute is part of the Perpetual Intelligence infrastructure. Please do not use it directly in your application code.

Constructors

TestIdAttribute(String)

Initialize a new instance.

Declaration

public TestIdAttribute(string id)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	The test id.

Exceptions

ТҮРЕ	CONDITION
System.ArgumentNullException	

Properties

Ιd

The test id.

Declaration

public string Id { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Namespace PerpetualIntelligence.Test.Services

Classes

TestHelper

This class provides helper methods for unit tests.

TestLogger

The test logger provider.

Class TestHelper

This class provides helper methods for unit tests.

Inheritance

System.Object

TestHelper

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: Perpetual Intelligence. Test. Services

Assembly: PerpetualIntelligence.Test.dll

Syntax

public static class TestHelper

Remarks

TestHelper is part of the Perpetual Intelligence infrastructure. Please do not use it directly in your application code.

Methods

AssertAnyOf(String, String[])

Asserts the value is any of the specified values.

Declaration

public static void AssertAnyOf(string value, params string[] anyOf)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	value	The value to check.
System.String[]	anyOf	Allowed values.

AssertApiExplorer(MemberInfo, String, Boolean, Boolean)

Asserts the value is any of the given collection.

Declaration

public static void AssertApiExplorer(MemberInfo member, string groupName, bool ignoreApi, bool inherit =
false)

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.String	groupName	
System.Boolean	ignoreApi	
System.Boolean	inherit	

AssertApiVersion(MemberInfo, String, Boolean)

Asserts specified number of attributes are applied on the specified member.

Declaration

public static void AssertApiVersion(MemberInfo member, string version, bool inherit = false)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.String	version	
System.Boolean	inherit	

AssertArchitectureCommentAttribute(MemberInfo, String, String, Boolean)

Asserts ArchitectureAttribute is applied on the specified member.

Declaration

public static void AssertArchitectureCommentAttribute(MemberInfo member, string description, string version, string severity, bool inherit = false)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.String	description	
System.String	version	
System.String	severity	
System.Boolean	inherit	

AssertArrayEquals<TValue>(TValue[], TValue[])

Declaration

public static void AssertArrayEquals<TValue>(TValue[] expected, TValue[] actual)

ТҮРЕ	NAME	DESCRIPTION
TValue[]	expected	
TValue[]	actual	

Type Parameters

NAME	DESCRIPTION
TValue	

AssertAssemblyTypesLocation(Assembly)

Asserts that the assembly has all types in the valid files or location.

Declaration

public static void AssertAssemblyTypesLocation(Assembly assembly)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Reflection.Assembly	assembly	

AssertAttribute < TAttribute > (MemberInfo, Boolean)

Asserts specified number of attributes are applied on the specified member.

Declaration

public static void AssertAttribute<TAttribute>(MemberInfo member, bool inherit = false)
 where TAttribute : Attribute

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.Boolean	inherit	

Type Parameters

NAME	DESCRIPTION
TAttribute	

AssertAttributeCount(MemberInfo, Int32, Boolean)

Asserts specified number of attributes are applied on the specified member.

Declaration

public static void AssertAttributeCount(MemberInfo member, int attributes, bool inherit = false)

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.Int32	attributes	
System.Boolean	inherit	

AssertBrowsableAttribute(MemberInfo, Object, Boolean)

Asserts System.ComponentModel.BrowsableAttribute is applied on the specified member.

Declaration

public static void AssertBrowsableAttribute(MemberInfo member, object value, bool inherit = false)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.Object	value	
System.Boolean	inherit	

AssertConstantCount(Type, Int32)

Asserts specified type has the constants defined.

Declaration

public static void AssertConstantCount(Type type, int constants)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Type	type	
System.Int32	constants	

AssertDataTypeAttribute(MemberInfo, DataType, Boolean)

Asserts System.ComponentModel.DataAnnotations.DataTypeAttribute is applied on the specified member.

Declaration

public static void AssertDataTypeAttribute(MemberInfo member, DataType dataType, bool inherit = false)

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System. Component Model. Data Annotations. Data Type	dataType	

ТҮРЕ	NAME	DESCRIPTION
System.Boolean	inherit	

AssertDefaultValueAttribute(MemberInfo, Object, Boolean)

Asserts System.ComponentModel.DefaultValueAttribute is applied on the specified member.

Declaration

public static void AssertDefaultValueAttribute(MemberInfo member, object value, bool inherit = false)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.Object	value	
System.Boolean	inherit	

AssertDisplayAttribute(MemberInfo, String, Nullable<Boolean>, String, String, Nullable<Int32>, Boolean)

Asserts System.ComponentModel.DataAnnotations.DisplayAttribute is applied on the specified member.

Declaration

public static void AssertDisplayAttribute(MemberInfo member, string displayName, bool? autoGenerateField, string description, string groupName, int? order, bool inherit = false)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.String	displayName	
System.Nullable < System.Boolean >	auto Generate Field	
System.String	description	
System.String	groupName	
System.Nullable < System.Int32 >	order	
System.Boolean	inherit	

AssertEditableAttribute(MemberInfo, Boolean, Boolean, Boolean)

Asserts System.ComponentModel.DataAnnotations.EditableAttribute is applied on the specified member.

Declaration

public static void AssertEditableAttribute(MemberInfo member, bool allowEdit, bool allowInitialEdit, bool
inherit = false)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.Boolean	allowEdit	
System.Boolean	allowInitialEdit	
System.Boolean	inherit	

AssertEditorBrowsableAttribute(MemberInfo, Object, Boolean)

Asserts System.ComponentModel.EditorBrowsableAttribute is applied on the specified member.

Declaration

public static void AssertEditorBrowsableAttribute(MemberInfo member, object value, bool inherit = false)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.Object	value	
System.Boolean	inherit	

AssertHttpMethod<TMethod>(MemberInfo, String, Boolean)

Asserts Microsoft.AspNetCore.Mvc.Routing.HttpMethodAttribute is applied on the specified member.

Declaration

public static void AssertHttpMethod<TMethod>(MemberInfo member, string template, bool inherit = false)
 where TMethod: HttpMethodAttribute

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.String	template	
System.Boolean	inherit	

Type Parameters

NAME	DESCRIPTION
TMethod	

AssertInternalTypes(Assembly, String)

Asserts the types that belong to the specified namespace are internal types.

Declaration

public static void AssertInternalTypes(Assembly assembly, string namespace)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Reflection.Assembly	assembly	
System.String	namespace	

AssertJsonPropertyName(MemberInfo, String, Boolean)

Asserts Microsoft.AspNetCore.Mvc.Routing.HttpMethodAttribute is applied on the specified member.

Declaration

public static void AssertJsonPropertyName(MemberInfo member, string name, bool inherit = false)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.String	name	
System.Boolean	inherit	

AssertMapToApiVersion(MemberInfo, String, Boolean)

Asserts Microsoft.AspNetCore.Mvc.Routing.HttpMethodAttribute is applied on the specified member.

Declaration

public static void AssertMapToApiVersion(MemberInfo member, string version, bool inherit = false)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.String	version	
System.Boolean	inherit	

AssertMaxLengthAttributeAttribute(MemberInfo, Nullable<Int32>, Boolean)

 $Asserts\ System. Component Model. Data Annotations. Max Length Attribute\ is\ applied\ on\ the\ specified\ member.$

Declaration

public static void AssertMaxLengthAttributeAttribute(MemberInfo member, int? maxLength, bool inherit = false)

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.Nullable < System.Int32 >	maxLength	
System.Boolean	inherit	

AssertMinLengthAttributeAttribute(MemberInfo, Nullable<Int32>, Boolean)

Asserts System.ComponentModel.DataAnnotations.MinLengthAttribute is applied on the specified member.

Declaration

public static void AssertMinLengthAttributeAttribute(MemberInfo member, int? minLength, bool inherit = false)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.Nullable < System.Int32 >	minLength	
System.Boolean	inherit	

AssertNamespace(Assembly, String)

Asserts that the assembly has valid namespace based on it name.

Declaration

public static void AssertNamespace(Assembly assembly, string rootNamespace)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System. Reflection. Assembly	assembly	Assembly to check.
System.String	rootNamespace	The expected root namespace.

AssertNamespace(Type, String)

Asserts that the type has the specified namespace.

Declaration

public static void AssertNamespace(Type type, string namespace)

ТҮРЕ	NAME	DESCRIPTION

ТҮРЕ	NAME	DESCRIPTION
System.Type	type	Type to check.
System.String	namespace	Expected namespace.

AssertNamespaceTypesLocation(IEnumerable < Type >, String, String)

Asserts that the specified types have valid 1-1 src files or location based on the specified namespace.

Declaration

public static void AssertNamespaceTypesLocation(IEnumerable<Type> types, string namespace, string srcDir)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Collections.Generic.IEnumerable < System.Type >	types	Types to check. All types must be in same assembly.
System.String	namespace	Namespace to check.
System.String	srcDir	src directory.

AssertOneImlxError(Error, String, String)

Asserts Error

Declaration

public static void AssertOneImlxError(Error error, string errorCode, string errorDescription)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Error	error	
System.String	errorCode	
System.String	errorDescription	

AssertProduces(MemberInfo, String, Boolean)

Asserts Microsoft.AspNetCore.Mvc.ProducesAttribute is applied on the specified member.

Declaration

public static void AssertProduces(MemberInfo member, string contentType, bool inherit = false)

ТУРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.String	contentType	
System.Boolean	inherit	

AssertProducesDefaultResponseType(MemberInfo, Type, Boolean)

Asserts Microsoft.AspNetCore.Mvc.ProducesDefaultResponseTypeAttribute is applied on the specified member.

Declaration

public static void AssertProducesDefaultResponseType(MemberInfo member, Type responseType, bool inherit =
false)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.Type	responseType	
System.Boolean	inherit	

AssertProducesResponseType(MemberInfo, Type, Int32, Boolean)

Asserts Microsoft.AspNetCore.Mvc.ProducesDefaultResponseTypeAttribute is applied on the specified member.

Declaration

public static void AssertProducesResponseType(MemberInfo member, Type responseType, int statusCode, bool inherit = false)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.Type	responseType	
System.Int32	statusCode	
System.Boolean	inherit	

AssertPropertiesMatchInterface(Type, Type)

To check if properties defined in the class are same as in the interface.

Declaration

public static void AssertPropertiesMatchInterface(Type typeClass, Type typeInterface)

ТҮРЕ	NAME	DESCRIPTION
System.Type	typeClass	
System.Type	typeInterface	

AssertRangeAttribute(MemberInfo, Object, Object, String, Boolean)

Asserts System.ComponentModel.DataAnnotations.RangeAttribute is applied on the specified member.

Declaration

public static void AssertRangeAttribute(MemberInfo member, object minLength, object maxLength, string message, bool inherit = false)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.Object	minLength	
System.Object	maxLength	
System.String	message	
System.Boolean	inherit	

AssertRefactorAttribute(MemberInfo, String, Boolean)

Asserts Microsoft.AspNetCore.Mvc.Routing.HttpMethodAttribute is applied on the specified member.

Declaration

public static void AssertRefactorAttribute(MemberInfo member, string description, bool inherit = false)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.String	description	
System.Boolean	inherit	

AssertRegularExpressionAttribute(MemberInfo, String, Boolean)

Asserts System.ComponentModel.DataAnnotations.RegularExpressionAttribute is applied on the specified member.

Declaration

public static void AssertRegularExpressionAttribute(MemberInfo member, string pattern, bool inherit = false)

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.String	pattern	
System.Boolean	inherit	

AssertRoute(MemberInfo, String, Boolean)

Asserts Microsoft.AspNetCore.Mvc.Routing.HttpMethodAttribute is applied on the specified member.

Declaration

public static void AssertRoute(MemberInfo member, string template, bool inherit = false)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.String	template	
System.Boolean	inherit	

AssertStringLengthAttribute(MemberInfo, Nullable<Int32>, Nullable<Int32>, Boolean)

Asserts System.ComponentModel.DataAnnotations.StringLengthAttribute is applied on the specified member.

Declaration

public static void AssertStringLengthAttribute(MemberInfo member, int? maxLength, int? minLength, bool inherit
= false)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.Nullable < System.Int32 >	maxLength	
System.Nullable < System.Int32 >	minLength	
System.Boolean	inherit	

AssertSwaggerHideProperty(MemberInfo, String, String, Boolean)

Asserts HiddenPropertyAttribute is applied on the specified member.

Declaration

public static void AssertSwaggerHideProperty(MemberInfo member, string propertyName, string justification, bool inherit = false)

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.String	propertyName	
System.String	justification	
System.Boolean	inherit	

AssertThrowsErrorException(Action, String, String)

Ensures that an action throws ErrorException.

Declaration

public static void AssertThrowsErrorException(Action action, string errorCode, string errorDescription)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Action	action	The action to execute.
System.String	errorCode	The expected error code.
System.String	errorDescription	The expected error description.

AssertThrowsErrorExceptionAsync(Func<Task>, String, String)

Ensures that an action throws ErrorException.

Declaration

public static async Task AssertThrowsErrorExceptionAsync(Func<Task> funcTask, string errorCode, string errorDescription)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Func < System.Threading.Tasks.Task >	funcTask	The task to execute.
System.String	errorCode	The expected error code.
System.String	error Description	The expected error description.

Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task	instance that contains the result or an Error instance.

AssertThrowsMultiErrorExceptionAsync(Func<Task>, Int32, String[], String[])

Ensures that a task throws MultiErrorException asynchronously.

Declaration

public static async Task AssertThrowsMultiErrorExceptionAsync(Func<Task> funcTask, int errorCount, string[]
errorCodes, string[] errorDescriptions)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System. Func < System. Threading. Tasks. Task >	funcTask	The task to execute.
System.Int32	errorCount	The expected error count.
System.String[]	errorCodes	The expected error codes.
System.String[]	errorDescriptions	The expected error descriptions.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

AssertThrowsWithMessage<TException>(Action, String)

Throws exception if caught with message.

Declaration

public static void AssertThrowsWithMessage<TException>(Action action, string message)
 where TException : Exception

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Action	action	
System.String	message	

Type Parameters

NAME	DESCRIPTION
TException	

AssertThrowsWithMessageAsync<TException>(Func<Task>, String)

Throws async with message.

Declaration

public static async Task AssertThrowsWithMessageAsync<TException>(Func<Task> action, string message)
 where TException : Exception

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Func <system.threading.tasks.task></system.threading.tasks.task>	action	
System.String	message	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

Type Parameters

NAME	DESCRIPTION
TException	

AssertTodoAttribute(MemberInfo, String, Boolean)

Asserts TodoAttribute is applied on the specified member.

Declaration

public static void AssertTodoAttribute(MemberInfo member, string description, bool inherit = false)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.String	description	
System.Boolean	inherit	

AssertToDocumentationAttribute(MemberInfo, String, Boolean)

Asserts WriteDocumentationAttribute is applied on the specified member.

Declaration

public static void AssertToDocumentationAttribute(MemberInfo member, string description, bool inherit = false)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Reflection.MemberInfo	member	
System.String	description	
System.Boolean	inherit	

AssertTryResultError<TResult>(TryResultOrError<TResult>, String, String)

Asserts TryResultOrError<T> has an Error and Result is null.

Declaration

 $public\ static\ void\ AssertTryResultError<TResult>(TryResultOrError<TResult>\ result,\ string\ error,\ string\ errorDescription)$

where TResult : class

Parameters

ТУРЕ	NAME	DESCRIPTION		
TryResultOrError <tresult></tresult>	result	The result to check.		
System.String	error	The expected error.		
System.String	error Description	The expected error description.		

Type Parameters

NAME	DESCRIPTION
TResult	

IsReleasePipelineConfig()

Declaration

public static bool IsReleasePipelineConfig()

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

Class TestLogger

The test logger provider.

Inheritance

System.Object

TestLogger

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: PerpetualIntelligence.Test.Services

Assembly: PerpetualIntelligence.Test.dll

Syntax

public static class TestLogger

Methods

Create<T>()

Creates a new Microsoft.Extensions.Logging.ILogger<TCategoryName>.

Declaration

public static ILogger<T> Create<T>()

Returns

ТҮРЕ	DESCRIPTION
Microsoft.Extensions.Logging.ILogger <t></t>	

Type Parameters

NAME	DESCRIPTION
Т	