Namespace Pelias.NET.Controller.Services

Classes

Client

A service to interact with Pelias APIs, enabling the conversion of addresses to geographic coordinates and vice versa.

Class Client

Namespace: Pelias.NET.Controller.Services

Assembly: Pelias.NET.dll

A service to interact with Pelias APIs, enabling the conversion of addresses to geographic coordinates and vice versa.

```
public class Client : IClient<Response, Geocoding, Feature, Properties, Geometry,
BoundingBox, Coordinates, Angle>
```

Inheritance

object ← Client

Implements

IClient<Response, Geocoding, Feature, Properties, Geometry, BoundingBox, Coordinates, Angle>

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

Client(string, WebProxy)

Initializes a new instance of the Client class with the specified endpoint and an optional proxy.

```
public Client(string endpoint, WebProxy proxy = null)
```

Parameters

`endpoint` string

The URI of the Pelias API endpoint.

`proxy` WebProxy

The web proxy to be used for requests (optional).

Client(Uri, WebProxy)

Initializes a new instance of the Client class with the specified endpoint and an optional proxy.

```
public Client(Uri endpoint, WebProxy proxy = null)
```

Parameters

`endpoint` Uri

The URI of the Pelias API endpoint.

`proxy` WebProxy

The web proxy to be used for requests (optional).

Properties

Endpoint

Gets or sets the endpoint URI for the Pelias API.

```
public Uri Endpoint { get; set; }
```

Property Value

Uri

Proxy

Gets or sets the web proxy to be used for the requests (optional).

```
public WebProxy Proxy { get; set; }
```

Property Value

WebProxy

Methods

Reverse(ReverseParameters)

Retrieves a stream asynchronously for the reverse geocoding query.

```
public Task<Stream> Reverse(ReverseParameters query)
```

Parameters

`query` ReverseParameters

Returns

Task<Stream>

Reverse(ReverseParameters, bool)

Retrieves a response asynchronously for the reverse geocoding query.

```
public Task<Response> Reverse(ReverseParameters query, bool debug = false)
```

Parameters

`query` ReverseParameters

`debug` bool

Returns

Task<Response>

Search(SearchParameters)

Retrieves a stream asynchronously for the search query.

```
public Task<Stream> Search(SearchParameters query)
```

Parameters

`query` SearchParameters

Returns

Task<Stream>

Search(SearchParameters, bool)

Retrieves a response asynchronously for the search query.

```
public Task<Response> Search(SearchParameters query, bool debug = false)
```

Parameters

`query` SearchParameters

`debug` bool

Returns

Task<Response>

Search(StructuredSearchParameters)

Retrieves a stream asynchronously for the structured search query.

```
public Task<Stream> Search(StructuredSearchParameters query)
```

Parameters

`query` StructuredSearchParameters

Returns

Task<Stream>

Search(StructuredSearchParameters, bool)

Retrieves a response asynchronously for the structured search query.

```
public Task<Response> Search(StructuredSearchParameters query, bool debug = false)
```

Parameters

`query` StructuredSearchParameters

`debug` bool

Returns

Task<Response>

Namespace Pelias.NET.Model.Exceptions

Classes

CollectionIterationException

Represents an exception that is thrown when there is an issue during the iteration of a collection.

MissingEntryException

Represents an exception that is thrown when a required entry is missing.

TypeMismatchException

Represents an exception that is thrown when there is a type mismatch during an operation.

Class CollectionIterationException

Namespace: Pelias.NET.Model.Exceptions

Assembly: Pelias.NET.dll

Represents an exception that is thrown when there is an issue during the iteration of a collection.

```
[Serializable]
public class CollectionIterationException : Exception, ISerializable
```

Inheritance

object ← Exception ← CollectionIterationException

Implements

ISerializable

Inherited Members

Exception.GetBaseException() , Exception.GetType() , Exception.ToString() , Exception.Data , Exception.HelpLink , Exception.HResult , Exception.InnerException , Exception.Message , Exception.Source , Exception.StackTrace , Exception.TargetSite , Exception.SerializeObjectState , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.MemberwiseClone() , object.ReferenceEquals(object, object)

Constructors

CollectionIterationException(string)

Initializes a new instance of the CollectionIterationException class with a specified error message.

```
public CollectionIterationException(string message)
```

Parameters

`message` string

The error message that explains the reason for the exception.

Class MissingEntryException

Namespace: Pelias.NET.Model.Exceptions

Assembly: Pelias.NET.dll

Represents an exception that is thrown when a required entry is missing.

```
[Serializable]
public class MissingEntryException : Exception, ISerializable
```

Inheritance

object ← Exception ← MissingEntryException

Implements

ISerializable

Inherited Members

Exception.GetBaseException() , Exception.GetType() , Exception.ToString() , Exception.Data , Exception.HelpLink , Exception.HResult , Exception.InnerException , Exception.Message , Exception.Source , Exception.StackTrace , Exception.TargetSite , Exception.SerializeObjectState , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.MemberwiseClone() , object.ReferenceEquals(object, object)

Constructors

MissingEntryException(string)

Initializes a new instance of the MissingEntryException class with a specified error message.

```
public MissingEntryException(string message)
```

Parameters

`message` string

The error message that explains the reason for the exception.

Class TypeMismatchException

Namespace: Pelias.NET.Model.Exceptions

Assembly: Pelias.NET.dll

Represents an exception that is thrown when there is a type mismatch during an operation.

```
[Serializable]
public class TypeMismatchException : Exception, ISerializable
```

Inheritance

object ← Exception ← TypeMismatchException

Implements

ISerializable

Inherited Members

Exception.GetBaseException() , Exception.GetType() , Exception.ToString() , Exception.Data , Exception.HelpLink , Exception.HResult , Exception.InnerException , Exception.Message , Exception.Source , Exception.StackTrace , Exception.TargetSite , Exception.SerializeObjectState , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.MemberwiseClone() , object.ReferenceEquals(object, object)

Constructors

TypeMismatchException(string)

Initializes a new instance of the TypeMismatchException class with a specified error message.

```
public TypeMismatchException(string message)
```

Parameters

`message` string

The error message that explains the reason for the exception.

Namespace Pelias.NET.Model.Interfaces

Interfaces

IClient<TResponse, TGeocoding, TFeature, TProperties, TGeometry, TBoundingBox, TCoordinates, TAngle>

Represents a generic interface for Pelias API clients with specified generic types.

IEntity

Represents an entity.

Interface IClient<TResponse, TGeocoding, TFeature, TProperties, TGeometry, TBoundingBox, TCoordinates, TAngle>

Namespace: Pelias.NET.Model.Interfaces

Assembly: Pelias.NET.dll

Represents a generic interface for Pelias API clients with specified generic types.

```
public interface IClient<TResponse, TGeocoding, TFeature, TProperties, TGeometry,
TBoundingBox, TCoordinates, TAngle> where TResponse : IResponse<TGeocoding, TFeature,
TProperties, TGeometry, TBoundingBox, TCoordinates, TAngle> where TGeocoding : IGeocoding
where TFeature : IFeature<TProperties, TGeometry, TBoundingBox, TCoordinates, TAngle> where
TProperties : IProperties where TGeometry : IGeometry<TBoundingBox, TCoordinates, TAngle>
where TBoundingBox : IBoundingBox<TCoordinates, TAngle> where TCoordinates :
ICoordinates<TAngle> where TAngle : IAngle
```

Type Parameters

`TResponse`

The type representing the response from Pelias API.

`TGeocoding`

The type representing geocoding information in the response.

`TFeature`

The type representing a feature in the response.

`TProperties`

The type representing properties of a feature.

`TGeometry`

The type representing the geometry of a feature.

`TBoundingBox`

The type representing the bounding box of a feature.

`TCoordinates`

The type representing the coordinates of a feature.

`TAngle`

The type representing an angle measurement.

Interface IEntity

Namespace: Pelias.NET.Model.Interfaces

Assembly: Pelias.NET.dll

Represents an entity.

```
public interface IEntity
```

Methods

GetMissingProperties(JsonElement, JsonElement, List<JsonProperty>, List<Exception>, bool)

Compares two JSON elements and returns a list of missing properties in the source compared to the target.

```
public static IEnumerable<List<JsonProperty>> GetMissingProperties(JsonElement source,
JsonElement target, List<JsonProperty> parents, List<Exception> exceptions, bool
raiseExceptions = false)
```

Parameters

`source` JsonElement

The source JSON element.

`target` JsonElement

The target JSON element to compare against.

`parents` List<JsonProperty>

The list of parent properties (used for tracking nested properties).

`exceptions` List<Exception>

A list to store exceptions during the comparison.

`raiseExceptions` bool

Flag to determine whether to raise exceptions for mismatches (default is false).

Returns

IEnumerable<List<JsonProperty>>

A collection of lists, each representing a path to a missing property in the source element.

Namespace Pelias.NET.Model.Interfaces.GeographicInformationSystems

Interfaces

IBoundingBox<TCoordinates, TAngle>
: Represents an interface for a bounding box defined by top-right and bottom-left coordinates, extending the general entity interface.

ICoordinates<TAngle>
: Represents an interface for geographic coordinates defined by longitude and latitude, extending the general entity interface.

IFeature<TProperties, TGeometry, TBoundingBox, TCoordinates, TAngle>
: Represents an interface for a geographic feature, extending the general entity interface, with properties, geometry, and bounding box information.

IGeocoding
: Represents an interface for geocoding information, extending the general entity interface.

IGeometry<TBoundingBox, TCoordinates, TAngle>
: Represents an interface for geographic geometry, extending the general entity interface, with coordinates information.

IMeasurement
: Represents an interface for a geographic measurement, extending the general entity interface.

IProperties
: Represents an interface for properties of a geographic entity, extending the general entity interface.

Interface IBoundingBox<TCoordinates, TAngle>

Namespace: Pelias.NET.Model.Interfaces.GeographicInformationSystems

Assembly: Pelias.NET.dll

Represents an interface for a bounding box defined by top-right and bottom-left coordinates, extending the general entity interface.

```
public interface IBoundingBox<TCoordinates, TAngle> : IEntity where TCoordinates :
ICoordinates<TAngle> where TAngle : IAngle
```

Type Parameters

`TCoordinates`

The type representing the coordinates of the bounding box.

`TAngle`

The type representing an angle measurement.

Inherited Members
IEntity.GetMissingProperties(JsonElement, JsonElement, List<JsonProperty>, List<Exception>, bool)

Properties

BottomLeftCoordinates

Gets the bottom-left coordinates of the bounding box.

```
TCoordinates BottomLeftCoordinates { get; }
```

Property Value

TCoordinates

TopRightCoordinates

Gets the top-right coordinates of the bounding box.

```
TCoordinates TopRightCoordinates { get; }
```

Property Value

TCoordinates

Methods

Contains(TCoordinates)

Checks whether the specified coordinates are within the bounding box.

```
bool Contains(TCoordinates coordinates)
```

Parameters

`coordinates` TCoordinates

The coordinates to check.

Returns

bool

True if the coordinates are within the bounding box, otherwise false.

Interface ICoordinates<TAngle>

Namespace: Pelias.NET.Model.Interfaces.GeographicInformationSystems

Assembly: Pelias.NET.dll

Represents an interface for geographic coordinates defined by longitude and latitude, extending the general entity interface.

```
public interface ICoordinates<TAngle> : IEntity where TAngle : IAngle
```

Type Parameters

`TAngle`

The type representing an angle measurement.

Inherited Members
IEntity.GetMissingProperties(JsonElement, JsonElement, List<JsonProperty>, List<Exception>, bool)

Properties

Latitude

Gets the latitude of the coordinates.

```
TAngle Latitude { get; }
```

Property Value

TAngle

Longitude

Gets the longitude of the coordinates.

```
TAngle Longitude { get; }
```

Property Value

TAngle

Interface IFeature<TProperties, TGeometry, TBoundingBox, TCoordinates, TAngle>

Namespace: Pelias.NET.Model.Interfaces.GeographicInformationSystems

Assembly: Pelias.NET.dll

Represents an interface for a geographic feature, extending the general entity interface, with properties, geometry, and bounding box information.

```
public interface IFeature<TProperties, TGeometry, TBoundingBox, TCoordinates, TAngle> :
IEntity where TProperties : IProperties where TGeometry : IGeometry<TBoundingBox,
TCoordinates, TAngle> where TBoundingBox : IBoundingBox<TCoordinates, TAngle> where
TCoordinates : ICoordinates<TAngle> where TAngle : IAngle
```

Type Parameters

`TProperties`

The type representing properties of the feature.

`TGeometry`

The type representing the geometry of the feature.

`TBoundingBox`

The type representing the bounding box of the feature.

`TCoordinates`

The type representing the coordinates of the feature.

`TAngle`

The type representing an angle measurement.

Inherited Members

IEntity.GetMissingProperties(JsonElement, JsonElement, List<JsonProperty>, List<Exception>, bool)

Properties

BoundingBox

Gets the bounding box of the feature.

```
TBoundingBox BoundingBox { get; }
```

Property Value

TBoundingBox

Geometry

Gets the geometry of the feature.

```
TGeometry Geometry { get; }
```

Property Value

TGeometry

Properties

Gets the properties of the feature.

```
TProperties Properties { get; }
```

Property Value

TProperties

Type

Gets the type of the feature.

```
string Type { get; }
```

Property Value

string

Interface IGeocoding

Namespace: Pelias.NET.Model.Interfaces.GeographicInformationSystems

Assembly: Pelias.NET.dll

Represents an interface for geocoding information, extending the general entity interface.

```
public interface IGeocoding : IEntity
```

Inherited Members
IEntity.GetMissingProperties(JsonElement, JsonElement, List<JsonProperty>, List<Exception>, bool)

Properties

Attribution

Gets the attribution information for the geocoding data.

```
string Attribution { get; }
```

Property Value

string

Timestamp

Gets the timestamp of the geocoding information.

```
long Timestamp { get; }
```

Property Value

long

Version

Gets the version of the geocoding information.

```
string Version { get; }
```

Property Value

string

Interface IGeometry<TBoundingBox, TCoordinates, TAngle>

Namespace: Pelias.NET.Model.Interfaces.GeographicInformationSystems

Assembly: Pelias.NET.dll

Represents an interface for geographic geometry, extending the general entity interface, with coordinates information.

```
public interface IGeometry<TBoundingBox, TCoordinates, TAngle> : IEntity where TBoundingBox
: IBoundingBox<TCoordinates, TAngle> where TCoordinates : ICoordinates<TAngle> where TAngle
: IAngle
```

Type Parameters

`TBoundingBox`

The type representing the bounding box of the geometry.

`TCoordinates`

The type representing the coordinates of the geometry.

`TAngle`

The type representing an angle measurement.

Inherited Members
IEntity.GetMissingProperties(JsonElement, JsonElement, List<JsonProperty>, List<Exception>, bool)

Properties

Coordinates

Gets the coordinates of the geometry.

```
TCoordinates Coordinates { get; }
```

Property Value

TCoordinates

Interface IMeasurement

Namespace: Pelias.NET.Model.Interfaces.GeographicInformationSystems

Assembly: Pelias.NET.dll

Represents an interface for a geographic measurement, extending the general entity interface.

```
public interface IMeasurement : IEntity
```

Inherited Members

IEntity.GetMissingProperties(JsonElement, JsonElement, List<JsonProperty>, List<Exception>, bool)

Interface IProperties

Namespace: Pelias.NET.Model.Interfaces.GeographicInformationSystems

Assembly: Pelias.NET.dll

Represents an interface for properties of a geographic entity, extending the general entity interface.

```
public interface IProperties : IEntity
```

Inherited Members
IEntity.GetMissingProperties(JsonElement, JsonElement, List<JsonProperty>, List<Exception>, bool)

Properties

Accuracy

Gets the accuracy information of the geographic entity.

```
string Accuracy { get; }
```

Property Value

string

Confidence

Gets the confidence level of the geographic entity.

```
double Confidence { get; }
```

Property Value

double

GroupIdentifier

Gets the group identifier of the geographic entity.

```
string GroupIdentifier { get; }
```

Property Value

string

Identifier

Gets the identifier of the geographic entity.

```
string Identifier { get; }
```

Property Value

string

Label

Gets the label of the geographic entity.

```
string Label { get; }
```

Property Value

string

Layer

Gets the layer of the geographic entity.

```
string Layer { get; }
```

Property Value

string

Name

Gets the name of the geographic entity.

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

Property Value

string

Source

Gets the source of the geographic entity.

```
string Source { get; }
```

Property Value

string

SourceIdentifier

Gets the source identifier of the geographic entity.

```
string SourceIdentifier { get; }
```

Property Value

string

Namespace Pelias.NET.Model.Interfaces.GeographicInformationSystems.Measurements

Interfaces

IDistance<TCoordinates, TAngle, TLength>

Represents an interface for calculating geographical distance between two points, extending the general measurement interface.

IMeasure

Represents an interface for a geographic measurement, extending the general entity interface.

Interface IDistance<TCoordinates, TAngle, TLength>

Namespace: Pelias.NET.Model.Interfaces.GeographicInformationSystems.Measurements

Assembly: Pelias.NET.dll

Represents an interface for calculating geographical distance between two points, extending the general measurement interface.

```
public interface IDistance<TCoordinates, TAngle, TLength> : IMeasurement, IEntity where
TCoordinates : ICoordinates<TAngle> where TAngle : IAngle where TLength : ILength
```

Type Parameters

`TCoordinates`

The type representing the coordinates of the points.

`TAngle`

The type representing an angle measurement.

`TLength`

The type representing a length measurement.

Inherited Members

IEntity.GetMissingProperties(JsonElement, JsonElement, List<JsonProperty>, List<Exception>, bool)

Fields

MEAN_EARTH_RADIUS

Radius at equator in meters (World Geodetic System 1984).

```
public const double MEAN_EARTH_RADIUS = 6371009
```

Field Value

double

Methods

Compute(TCoordinates, TCoordinates)

Computes the geographical distance between two points.

```
TLength Compute(TCoordinates source, TCoordinates target)
```

Parameters

`source` TCoordinates

The coordinates of the source point.

`target` TCoordinates

The coordinates of the target point.

Returns

TLength

The distance between the two points in the specified length unit.

Interface IMeasure

Namespace: Pelias.NET.Model.Interfaces.GeographicInformationSystems.Measurements

Assembly: Pelias.NET.dll

Represents an interface for a geographic measurement, extending the general entity interface.

```
public interface IMeasure : IEntity
```

Inherited Members

IEntity.GetMissingProperties(JsonElement, JsonElement, List<JsonProperty>, List<Exception>, bool)

Namespace Pelias.NET.Model.Interfaces.GeographicInformationSystems.Measurements.Measures

Interfaces

IAngle

Represents an interface for an angle measurement, extending the general measurement interface.

ILength

Represents an interface for a length measurement, extending the general measurement interface.

Interface IAngle

Namespace: Pelias.NET.Model.Interfaces.GeographicInformationSystems.Measurements.Measures

Assembly: Pelias.NET.dll

Represents an interface for an angle measurement, extending the general measurement interface.

```
public interface IAngle : IMeasure, IEntity
```

Inherited Members

IEntity.GetMissingProperties(JsonElement, JsonElement, List<JsonProperty>, List<Exception>, bool)

Properties

Degrees

Gets the angle value in degrees.

```
double Degrees { get; }
```

Property Value

double

Interface ILength

Namespace: Pelias.NET.Model.Interfaces.GeographicInformationSystems.Measurements.Measures

Assembly: Pelias.NET.dll

Represents an interface for a length measurement, extending the general measurement interface.

```
public interface ILength : IMeasure, IEntity
```

Inherited Members
IEntity.GetMissingProperties(JsonElement, JsonElement, List<JsonProperty>, List<Exception>, bool)

Fields

MILE

Conversion factor: 1 mile in meters.

```
public const double MILE = 1609.344
```

Field Value

double

Properties

Meters

Gets the length value in meters.

```
double Meters { get; }
```

Property Value

double

Miles

Gets the length value in miles, calculated based on the conversion factor.

```
double Miles { get; }
```

Property Value

double

Namespace Pelias.NET.Model.Interfaces.Protocols.Http

Interfaces

IQuery

Represents an interface for an HTTP query with methods to create parameters for URL encoding.

IResponse<TGeocoding, TFeature, TProperties, TGeometry, TBoundingBox, TCoordinates, TAngle>

Represents a generic interface for a Pelias API response with specified generic types, extending the general entity interface.

Interface IQuery

Namespace: Pelias.NET.Model.Interfaces.Protocols.Http

Assembly: Pelias.NET.dll

Represents an interface for an HTTP query with methods to create parameters for URL encoding.

```
public interface IQuery
```

Methods

ToNameValueCollection()

Creates a collection of parameters with their respective values for URL encoding.

```
NameValueCollection ToNameValueCollection()
```

Returns

NameValueCollection

A collection of parameters for URL encoding.

Interface IResponse<TGeocoding, TFeature, TProperties, TGeometry, TBoundingBox, TCoordinates, TAngle>

Namespace: Pelias.NET.Model.Interfaces.Protocols.Http

Assembly: Pelias.NET.dll

Represents a generic interface for a Pelias API response with specified generic types, extending the general entity interface.

```
public interface IResponse<TGeocoding, TFeature, TProperties, TGeometry, TBoundingBox,
TCoordinates, TAngle> : IEntity where TGeocoding : IGeocoding where TFeature :
IFeature<TProperties, TGeometry, TBoundingBox, TCoordinates, TAngle> where TProperties :
IProperties where TGeometry : IGeometry<TBoundingBox, TCoordinates, TAngle> where
TBoundingBox : IBoundingBox<TCoordinates, TAngle> where TCoordinates : ICoordinates<TAngle>
where TAngle : IAngle
```

Type Parameters

`TGeocoding`

The type representing geocoding information in the response.

`TFeature`

The type representing a feature in the response.

`TProperties`

The type representing properties of a feature.

`TGeometry`

The type representing the geometry of a feature.

`TBoundingBox`

The type representing the bounding box of a feature.

`TCoordinates`

The type representing the coordinates of a feature.

`TAngle`

The type representing an angle measurement.

Inherited Members
IEntity.GetMissingProperties(JsonElement, JsonElement, List<JsonProperty>, List<Exception>, bool)

Properties

BoundingBox

Gets or sets the bounding box of the response.

```
TBoundingBox BoundingBox { get; }
```

Property Value

TBoundingBox

Features

Gets a list of features in the response.

```
IList<TFeature> Features { get; }
```

Property Value

IList<TFeature>

Geocoding

Gets the geocoding information of the response.

```
TGeocoding Geocoding { get; }
```

Property Value

TGeocoding

Type

Gets the type of the response.

```
string Type { get; }
```

Property Value

string

Namespace Pelias.NET.Model.Objects.Pelias.Converters

Classes

AngleConverter

Custom JSON converter for the Angle class, facilitating JSON serialization and deserialization.

BoundingBoxConverter

Custom JSON converter for converting BoundingBox to and from JSON.

CoordinatesConverter

Custom JSON converter for converting Coordinates to and from JSON.

Class AngleConverter

Namespace: Pelias.NET.Model.Objects.Pelias.Converters

Assembly: Pelias.NET.dll

Custom JSON converter for the Angle class, facilitating JSON serialization and deserialization.

```
public class AngleConverter : JsonConverter<Angle>
```

Inheritance

object ← JsonConverter ← JsonConverter<Angle> ← AngleConverter

Inherited Members

JsonConverter<Angle>.CanConvert(Type) ,
JsonConverter<Angle>.ReadAsPropertyName(ref Utf8JsonReader, Type, JsonSerializerOptions) ,
JsonConverter<Angle>.WriteAsPropertyName(Utf8JsonWriter, Angle, JsonSerializerOptions) ,
JsonConverter<Angle>.HandleNull , JsonConverter<Angle>.Type , object.Equals(object) ,
object.Equals(object, object) , object.GetHashCode() , object.GetType() ,
object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Methods

Read(ref Utf8JsonReader, Type, JsonSerializerOptions)

Reads and converts JSON to an Angle object.

```
public override Angle Read(ref Utf8JsonReader reader, Type typeToConvert,
JsonSerializerOptions options)
```

Parameters

`reader` Utf8JsonReader

The JSON reader.

`typeToConvert` Type

The type to convert.

`options` JsonSerializerOptions

The serializer options.

Returns

Angle

An Angle object.

Write(Utf8JsonWriter, Angle, JsonSerializerOptions)

Writes an Angle object to JSON.

```
public override void Write(Utf8JsonWriter writer, Angle value, JsonSerializerOptions
options)
```

Parameters

`writer` Utf8JsonWriter

The JSON writer.

`value` Angle

The Angle object to write.

`options` JsonSerializerOptions

The serializer options.

Class BoundingBoxConverter

Namespace: Pelias.NET.Model.Objects.Pelias.Converters

Assembly: Pelias.NET.dll

Custom JSON converter for converting BoundingBox to and from JSON.

```
public class BoundingBoxConverter : JsonConverter<BoundingBox>
```

Inheritance

object ← JsonConverter ← JsonConverter<BoundingBox> ← BoundingBoxConverter

Inherited Members

JsonConverter<BoundingBox>.CanConvert(Type) ,
JsonConverter<BoundingBox>.ReadAsPropertyName(ref Utf8JsonReader, Type, JsonSerializerOptions) ,
JsonConverter<BoundingBox>.WriteAsPropertyName(Utf8JsonWriter, BoundingBox, JsonSerializerOptions) ,
JsonConverter<BoundingBox>.HandleNull , JsonConverter<BoundingBox>.Type ,
object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() ,
object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Methods

Read(ref Utf8JsonReader, Type, JsonSerializerOptions)

Reads JSON and converts it to a BoundingBox object.

```
public override BoundingBox Read(ref Utf8JsonReader reader, Type typeToConvert,
JsonSerializerOptions options)
```

Parameters

`reader` Utf8JsonReader

`typeToConvert` Type

`options` JsonSerializerOptions

Returns

BoundingBox

Write(Utf8JsonWriter, BoundingBox, JsonSerializerOptions)

Writes a BoundingBox object to JSON.

```
public override void Write(Utf8JsonWriter writer, BoundingBox value,
JsonSerializerOptions options)
```

Parameters

`writer` Utf8JsonWriter

`value` BoundingBox

`options` JsonSerializerOptions

Class CoordinatesConverter

Namespace: Pelias.NET.Model.Objects.Pelias.Converters

Assembly: Pelias.NET.dll

Custom JSON converter for converting Coordinates to and from JSON.

```
public class CoordinatesConverter : JsonConverter<Coordinates>
```

Inheritance

object ← JsonConverter ← JsonConverter<Coordinates> ← CoordinatesConverter

Inherited Members

JsonConverter<Coordinates>.CanConvert(Type) ,
JsonConverter<Coordinates>.ReadAsPropertyName(ref Utf8JsonReader, Type, JsonSerializerOptions) ,
JsonConverter<Coordinates>.WriteAsPropertyName(Utf8JsonWriter, Coordinates, JsonSerializerOptions) ,
JsonConverter<Coordinates>.HandleNull , JsonConverter<Coordinates>.Type ,
object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() ,
object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Methods

Read(ref Utf8JsonReader, Type, JsonSerializerOptions)

Reads JSON and converts it to a Coordinates object.

```
public override Coordinates Read(ref Utf8JsonReader reader, Type typeToConvert,
JsonSerializerOptions options)
```

Parameters

`reader` Utf8JsonReader

`typeToConvert` Type

`options` JsonSerializerOptions

Returns

Coordinates

Write(Utf8JsonWriter, Coordinates, JsonSerializerOptions)

Writes a Coordinates object to JSON.

```
public override void Write(Utf8JsonWriter writer, Coordinates value,
JsonSerializerOptions options)
```

Parameters

`writer` Utf8JsonWriter

`value` Coordinates

`options` JsonSerializerOptions

Namespace Pelias.NET.Model.Objects.Pelias.Enums

Enums

MatchType

Path

Version

Enum MatchType

Namespace: Pelias.NET.Model.Objects.Pelias.Enums

Assembly: Pelias.NET.dll

```
[Flags]
[JsonConverter(typeof(JsonStringEnumConverter))]
public enum MatchType
```

Extension Methods

EnumExtensions.GetEnumMemberValue<T>(T)

Fields

```
[EnumMember(Value = "exact")] Exact = 0

[EnumMember(Value = "fallback")] Fallback = 2

[EnumMember(Value = "interpolated")] Interpolated = 1
```

Enum Path

Namespace: Pelias.NET.Model.Objects.Pelias.Enums

Assembly: Pelias.NET.dll

```
[Flags]
[JsonConverter(typeof(JsonStringEnumConverter))]
public enum Path
```

Extension Methods

EnumExtensions.GetEnumMemberValue<T>(T)

Fields

```
[EnumMember(Value = "reverse")] Reverse = 0

[EnumMember(Value = "search")] Search = 1

[EnumMember(Value = "search/structured")] StructuredSearch = 2
```

Enum Version

Namespace: Pelias.NET.Model.Objects.Pelias.Enums

Assembly: Pelias.NET.dll

```
[Flags]
[JsonConverter(typeof(JsonStringEnumConverter))]
public enum Version
```

Extension Methods

EnumExtensions.GetEnumMemberValue<T>(T)

Fields

```
[EnumMember(Value = "V1")] V1 = 0
```

Namespace Pelias.NET.Model.Objects.Pelias.Extensions

Classes

EnumExtensions

IDistanceExtensions

Class EnumExtensions

Namespace: Pelias.NET.Model.Objects.Pelias.Extensions

Assembly: Pelias.NET.dll

```
public static class EnumExtensions
```

Inheritance

object ← EnumExtensions

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Methods

GetEnumMemberValue<T>(T)

```
public static string GetEnumMemberValue<T>(this T value) where T : Enum
```

Parameters

`value` T

Returns

string

Type Parameters

`T`

Class IDistanceExtensions

Namespace: Pelias.NET.Model.Objects.Pelias.Extensions

Assembly: Pelias.NET.dll

```
public static class IDistanceExtensions
```

Inheritance

object ← IDistanceExtensions

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Methods

Compute<T>(T, params Coordinates[])

```
public static Length Compute<T>(this T value, params Coordinates[] coordinates) where T :
IDistance<Coordinates, Angle, Length>
```

Parameters

`value` T

`coordinates` Coordinates[]

Returns

Length

Type Parameters

`T`

Namespace Pelias.NET.Model.Objects.Pelias.GeographicInformationSystems

Classes

BoundingBox

Coordinates

Feature

Geocoding

Geometry

Properties

Class BoundingBox

Namespace: Pelias.NET.Model.Objects.Pelias.GeographicInformationSystems

Assembly: Pelias.NET.dll

```
public class BoundingBox : IBoundingBox<Coordinates, Angle>, IEntity
```

Inheritance

object ← BoundingBox

Implements

IBoundingBox<Coordinates, Angle>, IEntity

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

BottomLeftCoordinates

Gets the bottom-left coordinates of the bounding box.

```
[JsonPropertyName("southwest")]
public Coordinates BottomLeftCoordinates { get; set; }
```

Property Value

Coordinates

TopRightCoordinates

Gets the top-right coordinates of the bounding box.

```
[JsonPropertyName("northeast")]
public Coordinates TopRightCoordinates { get; set; }
```

Property Value

Coordinates

Methods

ToArray()

```
public double[] ToArray()
```

Returns

double[]

Class Coordinates

Namespace: Pelias.NET.Model.Objects.Pelias.GeographicInformationSystems

Assembly: Pelias.NET.dll

```
public class Coordinates : ICoordinates<Angle>, IEntity
```

Inheritance

object ← Coordinates

Implements

ICoordinates<Angle>, IEntity

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Latitude

Gets the latitude of the coordinates.

```
public Angle Latitude { get; set; }
```

Property Value

Angle

Longitude

Gets the longitude of the coordinates.

```
public Angle Longitude { get; set; }
```

Property Value

Angle

Methods

ToArray()

```
public double[] ToArray()
```

Returns

double[]

Class Feature

Namespace: Pelias.NET.Model.Objects.Pelias.GeographicInformationSystems

Assembly: Pelias.NET.dll

```
public class Feature : IFeature<Properties, Geometry, BoundingBox, Coordinates,
Angle>, IEntity
```

Inheritance

object ← Feature

Implements

IFeature<Properties, Geometry, BoundingBox, Coordinates, Angle>, IEntity

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

BoundingBox

Gets the bounding box of the feature.

```
[JsonRequired]
[JsonConverter(typeof(BoundingBoxConverter))]
[JsonPropertyName("bbox")]
public required BoundingBox BoundingBox { get; set; }
```

Property Value

BoundingBox

Geometry

Gets the geometry of the feature.

```
[JsonRequired]
[JsonPropertyName("geometry")]
public required Geometry Geometry { get; set; }
```

Property Value

Geometry

Properties

Gets the properties of the feature.

```
[JsonRequired]
[JsonPropertyName("properties")]
public required Properties Properties { get; set; }
```

Property Value

Properties

Type

Gets the type of the feature.

```
[JsonRequired]
[JsonPropertyName("type")]
public required string Type { get; set; }
```

Property Value

string

Class Geocoding

Namespace: Pelias.NET.Model.Objects.Pelias.GeographicInformationSystems

Assembly: Pelias.NET.dll

```
public class Geocoding : IGeocoding, IEntity
```

Inheritance

object ← Geocoding

Implements

IGeocoding, IEntity

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Attribution

Gets the attribution information for the geocoding data.

```
[JsonRequired]
[JsonPropertyName("attribution")]
public required string Attribution { get; set; }
```

Property Value

string

Timestamp

Gets the timestamp of the geocoding information.

```
[JsonRequired]
[JsonPropertyName("timestamp")]
```

```
public required long Timestamp { get; set; }
```

Property Value

long

Version

Gets the version of the geocoding information.

```
[JsonRequired]
[JsonPropertyName("version")]
public required string Version { get; set; }
```

Property Value

string

Class Geometry

Namespace: Pelias.NET.Model.Objects.Pelias.GeographicInformationSystems

Assembly: Pelias.NET.dll

```
public class Geometry : IGeometry<BoundingBox, Coordinates, Angle>, IEntity
```

Inheritance

object ← Geometry

Implements

IGeometry<BoundingBox, Coordinates, Angle>, IEntity

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Coordinates

Gets the coordinates of the geometry.

```
[JsonConverter(typeof(CoordinatesConverter))]
[JsonPropertyName("coordinates")]
public Coordinates Coordinates { get; set; }
```

Property Value

Coordinates

Type

```
[JsonPropertyName("type")]
public string Type { get; set; }
```

Property Value

string

Class Properties

Namespace: Pelias.NET.Model.Objects.Pelias.GeographicInformationSystems

Assembly: Pelias.NET.dll

```
public class Properties : IProperties, IEntity
```

Inheritance

object ← Properties

Implements

IProperties, IEntity

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

Properties(string, string, string, string, string, string, double, string, string)

```
public Properties(string identifier, string groupIdentifier, string layer, string source,
string sourceIdentifier, string name, double confidence, string accuracy, string label)
```

Parameters

`identifier` string

`groupIdentifier` string

`layer` string

`source` string

`sourceIdentifier` string

`name` string

`confidence` double

`accuracy` string

`label` string

Properties

Accuracy

Gets the accuracy information of the geographic entity.

```
[JsonRequired]
[JsonPropertyName("accuracy")]
public required string Accuracy { get; set; }
```

Property Value

string

Borough

```
[JsonPropertyName("borough")]
public string? Borough { get; set; }
```

Property Value

string

BoroughGroupIdentifier

```
[JsonPropertyName("borough_gid")]
public string? BoroughGroupIdentifier { get; set; }
```

Property Value

string

Confidence

Gets the confidence level of the geographic entity.

```
[JsonRequired]
[Range(0, 1)]
[JsonPropertyName("confidence")]
public required double Confidence { get; set; }
```

Property Value

double

Country

```
[JsonPropertyName("country")]
public string? Country { get; set; }
```

Property Value

string

CountryAbbreviation

```
[JsonPropertyName("country_a")]
public string? CountryAbbreviation { get; set; }
```

Property Value

string

CountryCode

```
[JsonPropertyName("country_code")]
public string? CountryCode { get; set; }
```

Property Value

string

CountryGroupIdentifier

```
[JsonPropertyName("country_gid")]
public string? CountryGroupIdentifier { get; set; }
```

Property Value

string

Distance

```
[JsonPropertyName("distance")]
public double Distance { get; set; }
```

Property Value

double

GroupIdentifier

Gets the group identifier of the geographic entity.

```
[JsonRequired]
[JsonPropertyName("gid")]
public required string GroupIdentifier { get; set; }
```

Property Value

string

HouseNumber

```
[JsonPropertyName("housenumber")]
public string? HouseNumber { get; set; }
```

Property Value

string

Identifier

Gets the identifier of the geographic entity.

```
[JsonRequired]
[JsonPropertyName("id")]
public required string Identifier { get; set; }
```

Property Value

string

Label

Gets the label of the geographic entity.

```
[JsonRequired]
[JsonPropertyName("label")]
public required string Label { get; set; }
```

Property Value

string

Layer

Gets the layer of the geographic entity.

```
[JsonRequired]
[JsonPropertyName("layer")]
public required string Layer { get; set; }
```

Property Value

string

LocalAdministrator

```
[JsonPropertyName("localadmin")]
public string? LocalAdministrator { get; set; }
```

Property Value

string

LocalAdministratorGroupIdentifier

```
[JsonPropertyName("localadmin_gid")]
public string? LocalAdministratorGroupIdentifier { get; set; }
```

Property Value

string

Locality

```
[JsonPropertyName("locality")]
public string? Locality { get; set; }
```

Property Value

string

LocalityGroupIdentifier

```
[JsonPropertyName("locality_gid")]
public string? LocalityGroupIdentifier { get; set; }
```

Property Value

string

Macroregion

```
[JsonPropertyName("macroregion")]
public string? Macroregion { get; set; }
```

Property Value

string

MacroregionAbbreviation

```
[JsonPropertyName("macroregion_a")]
public string? MacroregionAbbreviation { get; set; }
```

Property Value

string

MacroregionGroupIdentifier

```
[JsonPropertyName("macroregion_gid")]
```

```
public string? MacroregionGroupIdentifier { get; set; }
```

Property Value

string

MatchType

```
[JsonPropertyName("match_type")]
public MatchType? MatchType { get; set; }
```

Property Value

MatchType?

Name

Gets the name of the geographic entity.

```
[JsonRequired]
[JsonPropertyName("name")]
public required string Name { get; set; }
```

Property Value

string

Neighbourhood

```
[JsonPropertyName("neighbourhood")]
public string? Neighbourhood { get; set; }
```

Property Value

string

NeighbourhoodGroupIdentifier

```
[JsonPropertyName("neighbourhood_gid")]
public string? NeighbourhoodGroupIdentifier { get; set; }
```

Property Value

string

Ocean

```
[JsonPropertyName("ocean")]
public string? Ocean { get; set; }
```

Property Value

string

OceanGroupIdentifier

```
[JsonPropertyName("ocean_gid")]
public string? OceanGroupIdentifier { get; set; }
```

Property Value

string

PostalCode

```
[JsonPropertyName("postalcode")]
public string? PostalCode { get; set; }
```

Property Value

string

Region

```
[JsonPropertyName("region")]
public string? Region { get; set; }
```

Property Value

string

RegionAbbreviation

```
[JsonPropertyName("region_a")]
public string? RegionAbbreviation { get; set; }
```

Property Value

string

RegionGroupIdentifier

```
[JsonPropertyName("region_gid")]
public string? RegionGroupIdentifier { get; set; }
```

Property Value

string

Source

Gets the source of the geographic entity.

```
[JsonRequired]
[JsonPropertyName("source")]
```

```
public required string Source { get; set; }
```

Property Value

string

SourceIdentifier

Gets the source identifier of the geographic entity.

```
[JsonRequired]
[JsonPropertyName("source_id")]
public required string SourceIdentifier { get; set; }
```

Property Value

string

Street

```
[JsonPropertyName("street")]
public string? Street { get; set; }
```

Property Value

string

Namespace Pelias.NET.Model.Objects.Pelias.GeographicInformationSystems.Measurements.Distances.Ellipsoid

Classes

VincentyFormulae

Class VincentyFormulae

Namespace: Pelias.NET.Model.Objects.Pelias.GeographicInformationSystems.Measurements.Distances.Ellipsoid

Assembly: Pelias.NET.dll

```
public class VincentyFormulae : IDistance<Coordinates, Angle, Length>, IMeasurement, IEntity
```

Inheritance

object ← VincentyFormulae

Implements

IDistance<Coordinates, Angle, Length>, IMeasurement, IEntity

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Extension Methods

IDistanceExtensions.Compute<T>(T, params Coordinates[])

Fields

EARTH_EQUATORIAL_RADIUS

Radius at equator in meters (World Geodetic System 1984)

```
public const double EARTH_EQUATORIAL_RADIUS = 6378137
```

Field Value

double

ITERATIONS

```
public const int ITERATIONS = 200
```

Field Value

int

TOLERANCE

```
public const double TOLERANCE = 1E-11
```

Field Value

double

Methods

Compute(Coordinates, Coordinates)

Computes the geographical distance between two points.

```
public Length Compute(Coordinates source, Coordinates target)
```

Parameters

`source` Coordinates

The coordinates of the source point.

`target` Coordinates

The coordinates of the target point.

Returns

Length

The distance between the two points in the specified length unit.

Compute(Coordinates, Coordinates, int, double)

Returns the geographical distance and azimuth between two given points using the inverse method of the formulae published by Thaddeus Vincenty

```
public double Compute(Coordinates source, Coordinates target, int iterations = 200, double
tolerance = 1E-11)
```

Parameters

`source` Coordinates

`target` Coordinates

`iterations` int

`tolerance` double

Returns

double

Namespace Pelias.NET.Model.Objects.Pelias.GeographicInformationSystems.Measurements.Distances.Sphere

Classes

HaversineFormula

SphericalLawOfCosines

Class HaversineFormula

Namespace: Pelias.NET.Model.Objects.Pelias.GeographicInformationSystems.Measurements.Distances.Sphere

Assembly: Pelias.NET.dll

```
public class HaversineFormula : IDistance<Coordinates, Angle, Length>, IMeasurement, IEntity
```

Inheritance

object ← HaversineFormula

Implements

IDistance<Coordinates, Angle, Length>, IMeasurement, IEntity

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Extension Methods

IDistanceExtensions.Compute<T>(T, params Coordinates[])

Methods

Compute(Coordinates, Coordinates)

Returns the geographical distance as the great-circle distance between two points using the haversine formula

```
public Length Compute(Coordinates source, Coordinates target)
```

Parameters

`source` Coordinates

`target` Coordinates

Returns

Length

Class SphericalLawOfCosines

Namespace: Pelias.NET.Model.Objects.Pelias.GeographicInformationSystems.Measurements.Distances.Sphere

Assembly: Pelias.NET.dll

```
public class SphericalLawOfCosines : IDistance<Coordinates, Angle, Length>,
IMeasurement, IEntity
```

Inheritance

object ← SphericalLawOfCosines

Implements

IDistance<Coordinates, Angle, Length>, IMeasurement, IEntity

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Extension Methods

IDistanceExtensions.Compute<T>(T, params Coordinates[])

Methods

Compute(Coordinates, Coordinates)

Returns the geographical distance between two points using the great-circle formula

```
public Length Compute(Coordinates source, Coordinates target)
```

Parameters

`source` Coordinates

`target` Coordinates

Returns

Length

Namespace Pelias.NET.Model.Objects.Pelias.GeographicInformationSystems.Measurements.Measures

Classes

Angle

Length

Class Angle

Namespace: Pelias.NET.Model.Objects.Pelias.GeographicInformationSystems.Measurements.Measures

Assembly: Pelias.NET.dll

```
public class Angle : IAngle, IMeasure, IEntity
```

Inheritance

object ← Angle

Implements

IAngle, IMeasure, IEntity

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

Angle(double)

```
public Angle(double degrees)
```

Parameters

`degrees` double

Fields

RADIAN

Radian in degree

```
public const double RADIAN = 57.29577951308232
```

Field Value

double

Properties

Degrees

Gets the angle value in degrees.

```
public double Degrees { get; set; }
```

Property Value

double

Radians

```
public double Radians { get; set; }
```

Property Value

double

Class Length

Namespace: Pelias.NET.Model.Objects.Pelias.GeographicInformationSystems.Measurements.Measures

Assembly: Pelias.NET.dll

```
public class Length : ILength, IMeasure, IEntity
```

Inheritance

object ← Length

Implements

ILength, IMeasure, IEntity

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

Length(double)

```
public Length(double meters)
```

Parameters

`meters` double

Properties

Meters

Gets the length value in meters.

```
public double Meters { get; set; }
```

Property Value

double

Miles

Gets the length value in miles, calculated based on the conversion factor.

```
public double Miles { get; set; }
```

Property Value

double

Namespace Pelias.NET.Model.Objects.Pelias.Protocols.Http.Requests.Queries

Classes

QueryBase

Class QueryBase

Namespace: Pelias.NET.Model.Objects.Pelias.Protocols.Http.Requests.Queries

Assembly: Pelias.NET.dll

```
public abstract class QueryBase : IQuery
```

Inheritance

object ← QueryBase

Implements

IQuery

Derived

GeocodingBase

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Methods

ToNameValueCollection()

Creates a collection of parameters with their respective values for URL encoding.

```
public NameValueCollection ToNameValueCollection()
```

Returns

NameValueCollection

Namespace Pelias.NET.Model.Objects.Pelias.Protocols.Http.Requests.Queries.Geocoding

Classes

GeocodingBase

ReverseParameters

SearchParameters

StructuredSearchParameters

Class GeocodingBase

Namespace: Pelias.NET.Model.Objects.Pelias.Protocols.Http.Requests.Queries.Geocoding

Assembly: Pelias.NET.dll

```
public abstract class GeocodingBase : QueryBase, IQuery
```

Inheritance

object ← QueryBase ← GeocodingBase

Implements

IQuery

Derived

ReverseParameters, SearchParameters, StructuredSearchParameters

Inherited Members

QueryBase.ToNameValueCollection() , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Size

```
[JsonPropertyName("size")]
public int Size { get; set; }
```

Property Value

int

Class ReverseParameters

Namespace: Pelias.NET.Model.Objects.Pelias.Protocols.Http.Requests.Queries.Geocoding

Assembly: Pelias.NET.dll

```
public class ReverseParameters : GeocodingBase, IQuery
```

Inheritance

object ← QueryBase ← GeocodingBase ← ReverseParameters

Implements

IQuery

Inherited Members

GeocodingBase.Size , QueryBase.ToNameValueCollection() , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Latitude

```
[JsonRequired]
[JsonConverter(typeof(AngleConverter))]
[JsonPropertyName("point.lat")]
public required Angle Latitude { get; set; }
```

Property Value

Angle

Longitude

```
[JsonRequired]
[JsonConverter(typeof(AngleConverter))]
```

```
[JsonPropertyName("point.lon")]
public required Angle Longitude { get; set; }
```

Property Value

Angle

Class SearchParameters

Namespace: Pelias.NET.Model.Objects.Pelias.Protocols.Http.Requests.Queries.Geocoding

Assembly: Pelias.NET.dll

```
public class SearchParameters : GeocodingBase, IQuery
```

Inheritance

object ← QueryBase ← GeocodingBase ← SearchParameters

Implements

IQuery

Inherited Members

GeocodingBase.Size , QueryBase.ToNameValueCollection() , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Text

```
[JsonRequired]
[JsonPropertyName("text")]
public required string Text { get; set; }
```

Property Value

string

Class StructuredSearchParameters

Namespace: Pelias.NET.Model.Objects.Pelias.Protocols.Http.Requests.Queries.Geocoding

Assembly: Pelias.NET.dll

```
public class StructuredSearchParameters : GeocodingBase, IQuery
```

Inheritance

object ← QueryBase ← GeocodingBase ← StructuredSearchParameters

Implements

IQuery

Inherited Members

GeocodingBase.Size , QueryBase.ToNameValueCollection() , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Address

```
[JsonRequired]
[JsonPropertyName("address")]
public required string Address { get; set; }
```

Property Value

string

Borough

```
[JsonPropertyName("borough")]
public string? Borough { get; set; }
```

Property Value

string

Country

```
[JsonPropertyName("country")]
public string? Country { get; set; }
```

Property Value

string

County

```
[JsonPropertyName("county")]
public string? County { get; set; }
```

Property Value

string

Locality

```
[JsonPropertyName("locality")]
public string? Locality { get; set; }
```

Property Value

string

Neighbourhood

```
[JsonPropertyName("neighbourhood")]
public string? Neighbourhood { get; set; }
```

Property Value

string

Postalcode

```
[JsonPropertyName("postalcode")]
public string? Postalcode { get; set; }
```

Property Value

string

Region

```
[JsonPropertyName("region")]
public string? Region { get; set; }
```

Property Value

string

Namespace Pelias.NET.Model.Objects.Pelias.Protocols.Http.Responses

Classes

Response

Class Response

Namespace: Pelias.NET.Model.Objects.Pelias.Protocols.Http.Responses

Assembly: Pelias.NET.dll

```
public class Response : IResponse<Geocoding, Feature, Properties, Geometry, BoundingBox,
Coordinates, Angle>, IEntity
```

Inheritance

object ← Response

Implements

IResponse<Geocoding, Feature, Properties, Geometry, BoundingBox, Coordinates, Angle>, IEntity

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

BoundingBox

Gets or sets the bounding box of the response.

```
[JsonRequired]
[JsonConverter(typeof(BoundingBoxConverter))]
[JsonPropertyName("bbox")]
public required BoundingBox BoundingBox { get; set; }
```

Property Value

BoundingBox

Features

Gets a list of features in the response.

```
[JsonRequired]
[JsonPropertyName("features")]
public required IList<Feature> Features { get; set; }
```

Property Value

IList <Feature>

Geocoding

Gets the geocoding information of the response.

```
[JsonRequired]
[JsonPropertyName("geocoding")]
public required Geocoding Geocoding { get; set; }
```

Property Value

Geocoding

Type

Gets the type of the response.

```
[JsonRequired]
[JsonPropertyName("type")]
public required string Type { get; set; }
```

Property Value

string