Table of Contents

ActivateMonoJSRuntime

BrowserServiceProvider

Microsoft.AspNetCore.Blazor
DataTransfer
ElementRef
HttpClientJsonExtensions
JsonUtil
MarkupString
RenderFragment
ServerSideBlazorOptions
UIChangeEventArgs
UIClipboardEventArgs
UIDataTransferItem
UIDragEventArgs
UIErrorEventArgs
UIEventArgs
UIEventArgsRenderTreeBuilderExtensions
UIFocusEventArgs
UIKeyboardEventArgs
UIMouseEventArgs
UIPointerEventArgs
UIProgressEventArgs
UITouchEventArgs
UITouchPoint
UIWheelEventArgs
Microsoft.AspNetCore.Blazor.Browser.Http
BrowserHttpMessageHandler
FetchCredentialsOption
Microsoft. AspNetCore. Blazor. Browser. Rendering
BrowserRenderer
BrowserRendererEventDispatcher
Browser Renderer Event Dispatcher. Browser Event Descriptor and the property of the property
Microsoft AspNetCore Blazor Browser Services

BrowserUriHelper
Microsoft.AspNetCore.Blazor.Builder
Blazor Application Builder Extensions
IBlazorApplicationBuilder
${\bf Microsoft. AspNet Core. Blazor. Components}$
BindAttributes
BindElementAttribute
BindInputElementAttribute
BindMethods
BlazorComponent
EventHandlerAttribute
EventHandlerInvoker
EventHandlers
lComponent
IHandleAfterRender
IHandleEvent
InjectAttribute
Parameter
ParameterAttribute
ParameterCollection
ParameterCollectionExtensions
ParameterEnumerator
RenderHandle
RouteAttribute
RuntimeHelpers
Microsoft.AspNetCore.Blazor.Hosting
BlazorWebAssemblyHost
IWebAssemblyHost
IWebAssemblyHostBuilder
WebAssemblyHostBuilderContext
Web Assembly Host Builder Extensions
WebAssemblyHostExtensions
Microsoft.AspNetCore.Blazor.Layouts
BlazorLayoutComponent
LayoutAttribute
LayoutDisplay
Microsoft.AspNetCore.Blazor.Rendering

RenderBatch Renderer RendererRegistry Microsoft.AspNetCore.Blazor.RenderTree ArrayRange < T > RenderTreeBuilder RenderTreeDiff RenderTreeEdit RenderTreeEditType RenderTreeFrame RenderTreeFrameType Microsoft.AspNetCore.Blazor.Routing **NavLink NavLinkMatch** Router Microsoft.AspNetCore.Blazor.Server WasmMediaTypeNames WasmMediaTypeNames.Application Microsoft.AspNetCore.Blazor.Server.Circuits Circuit RemoteUriHelper Microsoft.AspNetCore.Blazor.Services **IUriHelper** UriHelperBase Microsoft.AspNetCore.Builder BlazorApplicationBuilderExtensions **BlazorOptions** ServerSideBlazorApplicationBuilderExtensions Microsoft.Extensions.DependencyInjection ServerSideBlazorServiceCollectionExtensions Microsoft.JSInterop DotNetDispatcher DotNetObjectRef **IJSInProcessRuntime IJSRuntime JSException JSInProcessRuntimeBase**

JSInvokableAttribute

Json

JSRuntime

JSRuntimeBase

Microsoft.JSInterop.Internal

ICustomArgSerializer

JSAsyncCallResult

Namespace Microsoft.AspNetCore.Blazor

Classes

DataTransfer

The DataTransfer object is used to hold the data that is being dragged during a drag and drop operation. It may hold one or more UIDataTransferItem, each of one or more data types. For more information about drag and drop, see HTML Drag and Drop API.

ElementRef

Represents a reference to a rendered element.

HttpClientJsonExtensions

Extension methods for working with JSON APIs.

JsonUtil

Provides mechanisms for converting between .NET objects and JSON strings.

MarkupString

A string value that can be rendered as markup such as HTML.

RenderFragment

Represents a segment of UI content, implemented as a delegate that writes the content to a RenderTreeBuilder.

ServerSideBlazorOptions

Options for Server-Side Blazor.

UIChangeEventArgs

Supplies information about an input change event that is being raised.

UIClipboardEventArgs

Supplies information about an clipboard event that is being raised.

${\tt UIDataTransferItem}$

The UIDataTransferItem object represents one drag data item. During a drag operation, each drag event has a dataTransfer property which contains a list of drag data items. Each item in the list is a UIDataTransferItem object.

UIDragEventArgs

Supplies information about an drag event that is being raised.

UIErrorEventArgs

Supplies information about an error event that is being raised.

UIEventArgs

Supplies information about an event that is being raised.

${\tt UIEventArgsRenderTreeBuilderExtensions}$

Extensions methods on RenderTreeBuilder for event handlers.

UIFocusEventArgs

Supplies information about a focus event that is being raised.

${\sf UIKeyboardEventArgs}$

Supplies information about a keyboard event that is being raised.

UIMouseEventArgs

Supplies information about a mouse event that is being raised.

UIPointerEventArgs

Supplies information about a mouse event that is being raised.

UIProgressEventArgs

Supplies information about a progress event that is being raised.

UITouchEventArgs

Supplies information about a touch event that is being raised.

UITouchPoint

Represents a single contact point on a touch-sensitive device. The contact point is commonly a finger or stylus and the device may be a touchscreen or trackpad.

UIWheelEventArgs

Supplies information about a mouse wheel event that is being raised.

Class DataTransfer

The DataTransfer object is used to hold the data that is being dragged during a drag and drop operation. It may hold one or more UIDataTransferItem, each of one or more data types. For more information about drag and drop, see HTML Drag and Drop API.

Inheritance

System.Object

DataTransfer

Namespace: Microsoft.AspNetCore.Blazor Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public class DataTransfer : Object

Constructors

DataTransfer()

Declaration

public DataTransfer()

Properties

DropEffect

Gets the type of drag-and-drop operation currently selected or sets the operation to a new type. The value must be none, copy, link or move.

Declaration

public string DropEffect { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

EffectAllowed

Provides all of the types of operations that are possible. Must be one of none, copy, copyLink, copyMove, link, linkMove, move, all or uninitialized.

Declaration

public string EffectAllowed { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.String	

Files

Contains a list of all the local files available on the data transfer. If the drag operation doesn't involve dragging files, this property is an empty list.

Declaration

<pre>public string[] Files { get; set; }</pre>
--

Property Value

ТҮРЕ	DESCRIPTION
System.String[]	

Items

Gives a UIDataTransferItem array which is a list of all of the drag data.

Declaration

```
public UIDataTransferItem[] Items { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
UIDataTransferItem[]	

Types

An array of System. String giving the formats that were set in the dragstart event.

Declaration

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

ТҮРЕ	DESCRIPTION
System.String[]	

Class ElementRef

Represents a reference to a rendered element.

Inheritance

System.Object

ElementRef

Implements

ICustomArgSerializer

Namespace: Microsoft.AspNetCore.Blazor Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

 $\verb"public sealed class ElementRef": ValueType, ICustomArgSerializer"$

Explicit Interface Implementations

ICustom Arg Serializer. To Js on Primitive ()

Declaration

object ICustomArgSerializer.ToJsonPrimitive()

Returns

ТҮРЕ	DESCRIPTION
System.Object	

Implements

ICustomArgSerializer

Class HttpClientJsonExtensions

Extension methods for working with JSON APIs.

Inheritance

System.Object

HttpClientJsonExtensions

Namespace: Microsoft.AspNetCore.Blazor
Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public static class HttpClientJsonExtensions : Object

Methods

GetJsonAsync<T>(HttpClient, String)

Sends a GET request to the specified URI, and parses the JSON response body to create an object of the generic type.

Declaration

public static Task<T> GetJsonAsync<T>(this HttpClient httpClient, string requestUri)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Net.Http.HttpClient	httpClient	The System.Net.Http.HttpClient.
System.String	requestUri	The URI that the request will be sent to.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <t></t>	The response parsed as an object of the generic type.

Type Parameters

NAME	DESCRIPTION
Т	A type into which the response body can be JSON-deserialized.

PostJsonAsync(HttpClient, String, Object)

Sends a POST request to the specified URI, including the specified content in JSON-encoded format, and parses the JSON response body to create an object of the generic type.

Declaration

public static Task PostJsonAsync(this HttpClient httpClient, string requestUri, object content)

ТУРЕ	NAME	DESCRIPTION
System.Net.Http.HttpClient	httpClient	The System.Net.Http.HttpClient.
System.String	requestUri	The URI that the request will be sent to.
System.Object	content	Content for the request body. This will be JSON-encoded and sent as a string.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	The response parsed as an object of the generic type.

PostJsonAsync<T>(HttpClient, String, Object)

Sends a POST request to the specified URI, including the specified content in JSON-encoded format, and parses the JSON response body to create an object of the generic type.

Declaration

public static Task<T> PostJsonAsync<T>(this HttpClient httpClient, string requestUri, object content)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Net.Http.HttpClient	httpClient	The System.Net.Http.HttpClient.
System.String	requestUri	The URI that the request will be sent to.
System.Object	content	Content for the request body. This will be JSON-encoded and sent as a string.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <t></t>	The response parsed as an object of the generic type.

Type Parameters

NAME	DESCRIPTION
Т	A type into which the response body can be JSON-deserialized.

Sends a PUT request to the specified URI, including the specified content in JSON-encoded format.

Declaration

public static Task PutJsonAsync(this HttpClient httpClient, string requestUri, object content)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Net.Http.HttpClient	httpClient	The System.Net.Http.HttpClient.
System.String	requestUri	The URI that the request will be sent to.
System.Object	content	Content for the request body. This will be JSON-encoded and sent as a string.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

PutJsonAsync<T>(HttpClient, String, Object)

Sends a PUT request to the specified URI, including the specified content in JSON-encoded format, and parses the JSON response body to create an object of the generic type.

Declaration

public static Task<T> PutJsonAsync<T>(this HttpClient httpClient, string requestUri, object content)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Net.Http.HttpClient	httpClient	The System.Net.Http.HttpClient.
System.String	requestUri	The URI that the request will be sent to.
System.Object	content	Content for the request body. This will be JSON-encoded and sent as a string.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < T >	The response parsed as an object of the generic type.

Type Parameters

NAME	DESCRIPTION
Т	A type into which the response body can be JSON-deserialized.

SendJsonAsync(HttpClient, HttpMethod, String, Object)

Sends an HTTP request to the specified URI, including the specified content in JSON-encoded format.

Declaration

public static Task SendJsonAsync(this HttpClient httpClient, HttpMethod method, string requestUri, object content)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Net.Http.HttpClient	httpClient	The System.Net.Http.HttpClient.
System.Net.Http.HttpMethod	method	The HTTP method.
System.String	requestUri	The URI that the request will be sent to.
System.Object	content	Content for the request body. This will be JSON-encoded and sent as a string.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

SendJsonAsync<T>(HttpClient, HttpMethod, String, Object)

Sends an HTTP request to the specified URI, including the specified content in JSON-encoded format, and parses the JSON response body to create an object of the generic type.

Declaration

public static Task<T> SendJsonAsync<T>(this HttpClient httpClient, HttpMethod method, string requestUri,
object content)

ТҮРЕ	NAME	DESCRIPTION
System.Net.Http.HttpClient	httpClient	The System.Net.Http.HttpClient.
System.Net.Http.HttpMethod	method	The HTTP method.

ТҮРЕ	NAME	DESCRIPTION
System.String	requestUri	The URI that the request will be sent to.
System.Object	content	Content for the request body. This will be JSON-encoded and sent as a string.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < T >	The response parsed as an object of the generic type.

Type Parameters

NAME	DESCRIPTION
Т	A type into which the response body can be JSON-deserialized.

Class JsonUtil

Provides mechanisms for converting between .NET objects and JSON strings.

Inheritance

System.Object

JsonUtil

Namespace: Microsoft.AspNetCore.Blazor
Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public static class JsonUtil : Object

Methods

Deserialize<T>(String)

Deserializes the JSON string, creating an object of the specified generic type.

Declaration

public static T Deserialize<T>(string json)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	json	The JSON string.

Returns

ТУРЕ	DESCRIPTION
Т	An object of the specified type.

Type Parameters

NAME	DESCRIPTION
Т	The type of object to create.

Serialize(Object)

Serializes the value as a JSON string.

Declaration

public static string Serialize(object value)

ТҮРЕ	NAME	DESCRIPTION
System.Object	value	The value to serialize.

Returns

ТУРЕ	DESCRIPTION
System.String	The JSON string.

Class MarkupString

A string value that can be rendered as markup such as HTML.

Inheritance

System.Object

MarkupString

Namespace: Microsoft.AspNetCore.Blazor Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public sealed class MarkupString : ValueType

Constructors

MarkupString(String)

Constructs an instance of MarkupString.

Declaration

public MarkupString(string value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	value	The value for the new instance.

Properties

Value

Gets the value of the MarkupString.

Declaration

public string Value { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Methods

ToString()

Declaration

public override string ToString()

Returns

ТҮРЕ	DESCRIPTION
System.String	

Operators

Explicit(String to MarkupString)

Casts a System.String to a MarkupString.

Declaration

public static explicit operator MarkupString(string value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	value	The System.String value.

Returns

ТҮРЕ	DESCRIPTION
MarkupString	

Class RenderFragment

Represents a segment of UI content, implemented as a delegate that writes the content to a RenderTreeBuilder.

Inheritance

System.Object

RenderFragment

Namespace: Microsoft.AspNetCore.Blazor Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public sealed class RenderFragment : MulticastDelegate

Constructors

RenderFragment(Object, IntPtr)

Declaration

public RenderFragment(object object, IntPtr method)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Object	object	
System.IntPtr	method	

Methods

BeginInvoke(RenderTreeBuilder, AsyncCallback, Object)

Declaration

public virtual IAsyncResult BeginInvoke(RenderTreeBuilder builder, AsyncCallback callback, object object)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	
System. Async Callback	callback	
System.Object	object	

Returns

ТҮРЕ	DESCRIPTION
System.IAsyncResult	

EndInvoke(IAsyncResult)

Declaration

public virtual void EndInvoke(IAsyncResult result)

ТҮРЕ	NAME	DESCRIPTION
System.IAsyncResult	result	

Invoke(RenderTreeBuilder)

Declaration

public virtual void Invoke(RenderTreeBuilder builder)

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	

Class ServerSideBlazorOptions

Options for Server-Side Blazor.

Inheritance

System.Object

Server Side Blazor Options

Namespace: Microsoft.AspNetCore.Blazor

 $Assembly: \ Microsoft. Asp NetCore. Blazor. Server. dll$

Syntax

public class ServerSideBlazorOptions : Object

Constructors

ServerSideBlazorOptions()

Declaration

public ServerSideBlazorOptions()

Class UIChangeEventArgs

Supplies information about an input change event that is being raised.

Inheritance

System.Object

UIEventArgs

UIChangeEventArgs

Inherited Members

UIEventArgs.Type

 $Name space: {\bf Microsoft. AspNetCore. Blazor} \\ Assembly: {\bf Microsoft. AspNetCore. Blazor. dll} \\$

Syntax

public class UIChangeEventArgs : UIEventArgs

Constructors

UIChangeEventArgs()

Declaration

public UIChangeEventArgs()

Properties

Value

Gets or sets the new value of the input. This may be a System.String or a System.Boolean.

Declaration

public object Value { get; set; }

ТҮРЕ	DESCRIPTION
System.Object	

Class UIClipboardEventArgs

Supplies information about an clipboard event that is being raised.

Inheritance

System.Object

UIEventArgs

UIClipboardEventArgs

Inherited Members

UIEventArgs.Type

Namespace: Microsoft.AspNetCore.Blazor Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public class UIClipboardEventArgs : UIEventArgs

Constructors

UIClipboardEventArgs()

Declaration

public UIClipboardEventArgs()

Class UIDataTransferItem

The UIDataTransferItem object represents one drag data item. During a drag operation, each drag event has a dataTransfer property which contains a list of drag data items. Each item in the list is a UIDataTransferItem object.

Inheritance

System.Object

UIDataTransferItem

Namespace: Microsoft.AspNetCore.Blazor Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public class UIDataTransferItem : Object

Constructors

UIDataTransferItem()

Declaration

public UIDataTransferItem()

Properties

Kind

The kind of drag data item, string or file

Declaration

public string Kind { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Type

The drag data item's type, typically a MIME type

Declaration

public string Type { get; set; }

ТҮРЕ	DESCRIPTION
System.String	

Class UIDragEventArgs

Supplies information about an drag event that is being raised.

Inheritance

System.Object

UIEventArgs

UIDragEventArgs

Inherited Members

UIEventArgs.Type

 $Name space: {\bf Microsoft. AspNetCore. Blazor} \\ Assembly: {\bf Microsoft. AspNetCore. Blazor. dll} \\$

Syntax

public class UIDragEventArgs : UIEventArgs

Constructors

UIDragEventArgs()

Declaration

public UIDragEventArgs()

Properties

AltKey

true if the alt key was down when the event was fired. false otherwise.

Declaration

public bool AltKey { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

Button

The button number that was pressed when the mouse event was fired: Left button=0, middle button=1 (if present), right button=2. For mice configured for left handed use in which the button actions are reversed the values are instead read from right to left.

Declaration

public long Button { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

Buttons

The buttons being pressed when the mouse event was fired: Left button=1, Right button=2, Middle (wheel) button=4, 4th button

(typically, "Browser Back" button)=8, 5th button (typically, "Browser Forward" button)=16. If two or more buttons are pressed, returns the logical sum of the values. E.g., if Left button and Right button are pressed, returns 3 (=1 \mid 2).

Declaration

|--|

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

ClientX

The X coordinate of the mouse pointer in local (DOM content) coordinates.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

ClientY

The Y coordinate of the mouse pointer in local (DOM content) coordinates.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

CtrlKey

true if the control key was down when the event was fired. false otherwise.

Declaration

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

Property Value

,	
ТҮРЕ	DESCRIPTION
System.Boolean	

DataTransfer

The data that underlies a drag-and-drop operation, known as the drag data store. See DataTransfer.

Declaration

; }	
-----	--

Property Value

ТҮРЕ	DESCRIPTION
DataTransfer	

Detail

A count of consecutive clicks that happened in a short amount of time, incremented by one.

Declaration

```
public float Detail { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Single	

MetaKey

true if the meta key was down when the event was fired. false otherwise.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

ScreenX

The X coordinate of the mouse pointer in global (screen) coordinates.

Declaration

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

Property Value

ТУРЕ	DESCRIPTION
System.Int64	

ScreenY

The Y coordinate of the mouse pointer in global (screen) coordinates.

Declaration

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

ТҮРЕ	DESCRIPTION
System.Int64	

ShiftKey

true if the shift key was down when the event was fired. false otherwise.

Declaration

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

ТҮРЕ	DESCRIPTION
System.Boolean	

Class UlErrorEventArgs

Supplies information about an error event that is being raised.

Inheritance

System.Object

UIEventArgs

UIErrorEventArgs

Inherited Members

UIEventArgs.Type

 $Name space: {\bf Microsoft. AspNetCore. Blazor} \\ Assembly: {\bf Microsoft. AspNetCore. Blazor. dll} \\$

Syntax

```
public class UIErrorEventArgs : UIEventArgs
```

Constructors

UIErrorEventArgs()

Declaration

```
public UIErrorEventArgs()
```

Properties

Colno

Gets the column number of the script file on which the error occurred.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.Int32	

Filename

Gets the name of the script file in which the error occurred.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Lineno

Gets the line number of the script file on which the error occurred.

Declaration

}	
---	--

Property Value

ТҮРЕ	DESCRIPTION
System.Int32	

Message

Gets a a human-readable error message describing the problem.

Declaration

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

ТҮРЕ	DESCRIPTION
System.String	

Class UIEventArgs

Supplies information about an event that is being raised.

Inheritance

System.Object

UIEventArgs

UIChangeEventArgs

UIClipboardEventArgs

UIDragEventArgs

UlErrorEventArgs

UIFocusEventArgs

UIKeyboardEventArgs

UIMouseEventArgs

UIProgressEventArgs

UITouchEventArgs

Namespace: Microsoft.AspNetCore.Blazor Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public class UIEventArgs : Object

Constructors

UIEventArgs()

Declaration

public UIEventArgs()

Properties

Type

Gets or sets the type of the event.

Declaration

public string Type { get; set; }

ТҮРЕ	DESCRIPTION
System.String	

Class UIEventArgsRenderTreeBuilderExtensions

Extensions methods on RenderTreeBuilder for event handlers.

Inheritance

System.Object

UIEventArgsRenderTreeBuilderExtensions

Namespace: Microsoft.AspNetCore.Blazor Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public static class UIEventArgsRenderTreeBuilderExtensions : Object

Remarks

These methods enable method-group to delegate conversion for delegates and methods that accept types derived from UIEventArgs.

This enhances the programming experience for using event handlers with the render tree builder in components written in pure C#. These extension methods make it possible to write code like:

```
builder.AddAttribute(0, "onkeypress", MyKeyPressHandler);
```

Where void MyKeyPressHandler(UIKeyboardEventArgs e) is a method defined in the same class. In this example, the author knows that the onclick event is associated with the UIKeyboardEventArgs event args type. The component author is responsible for providing a delegate that matches the expected event args type, an error will result in a failure at runtime.

When a component is authored in Razor (.cshtml), the Razor code generator will maintain a mapping between event names and event arg types that can be used to generate more strongly typed code. Generated code for the same case will look like:

builder.AddAttribute(0, "onkeypress", BindMethods.GetEventHandlerValue<UIKeyboardEventArgs>
 (MyKeyPressHandler));

Methods

AddAttribute(RenderTreeBuilder, Int32, String, Action < UIChangeEventArgs >)

Appends a frame representing an System. Action <>-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Action<UIChangeEventArgs> value)

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.

ТҮРЕ	NAME	DESCRIPTION
System.String	name	The name of the attribute.
System.Action < UIChangeEventArgs >	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Action<UIClipboardEventArgs>)

Appends a frame representing an System.Action <>-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Action<UIClipboardEventArgs> value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Action < UIClipboardEventArgs >	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Action<UIDragEventArgs>)

Appends a frame representing an System.Action <>-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Action<UIDragEventArgs> value)

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Action < UIDragEventArgs >	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Action < UIErrorEventArgs >)

Appends a frame representing an System.Action <>-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Action<UIErrorEventArgs> value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Action < UIErrorEventArgs >	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Action<UIFocusEventArgs>)

Appends a frame representing an System.Action <>-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Action<UIFocusEventArgs> value)

ТҮРЕ	NAME	DESCRIPTION

ТУРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Action < UIFocusEventArgs >	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Action<UIKeyboardEventArgs>)

Appends a frame representing an System. Action <> -valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Action<UIKeyboardEventArgs> value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Action < UIKeyboardEventArgs >	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Action<UIMouseEventArgs>)

Appends a frame representing an System.Action <>-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Action<UIMouseEventArgs> value)

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Action < UIMouseEventArgs >	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Action < UIPointerEventArgs >)

Appends a frame representing an System.Action<>-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Action<UIPointerEventArgs> value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Action < UIPointerEventArgs >	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Action < UIProgressEventArgs >)

Appends a frame representing an System. Action <> -valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Action<UIProgressEventArgs> value)

ТУРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Action < UIProgressEventArgs >	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Action < UITouchEventArgs >)

Appends a frame representing an System.Action<>-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Action<UITouchEventArgs> value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Action < UITouchEventArgs >	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Action < UIWheelEventArgs >)

Appends a frame representing an System. Action <>-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Action<UIWheelEventArgs> value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Action < UIWheelEventArgs >	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Func<UIChangeEventArgs, Task>)

Appends a frame representing an System.Func<, >-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Func<UIChangeEventArgs, Task> value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Func <uichangeeventargs, system.threading.tasks.task=""></uichangeeventargs,>	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Func<UIClipboardEventArgs, Task>)

Appends a frame representing an System.Func<, >-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Func<UIClipboardEventArgs, Task> value)

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System. Func < UIClipboard Event Args, System. Threading. Tasks. Task >	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Func<UIDragEventArgs, Task>)

Appends a frame representing an System.Func<, >-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Func<UIDragEventArgs, Task> value)

Parameters

ТҮРЕ	NAME	DESCRIPTION	
RenderTreeBuilder	builder	The RenderTreeBuilder.	
System.Int32	sequence	An integer that represents the position of the instruction in the source code.	
System.String	name	The name of the attribute.	
System.Func < UIDragEventArgs, System.Threading.Tasks.Task >	value	The value of the attribute.	

AddAttribute(RenderTreeBuilder, Int32, String, Func<UIErrorEventArgs, Task>)

Appends a frame representing an System.Func<, >-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Func<UIErrorEventArgs, Task> value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Func < UIError Event Args, System. Threading. Tasks. Task >	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Func<UIFocusEventArgs, Task>)

Appends a frame representing an System.Func<, >-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Func<UIFocusEventArgs, Task> value)

Parameters

a daille te 15			
ТҮРЕ	NAME	DESCRIPTION	
RenderTreeBuilder	builder	The RenderTreeBuilder.	
System.Int32	sequence	An integer that represents the position of the instruction in the source code.	
System.String	name	The name of the attribute.	
System.Func < UIFocus Event Args, System. Threading. Tasks. Task >	value	The value of the attribute.	

AddAttribute(RenderTreeBuilder, Int32, String, Func<UIKeyboardEventArgs, Task>)

Appends a frame representing an System.Func<, >-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Func<UIKeyboardEventArgs, Task> value)

Parameters

ТУРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Func < UIKeyboard Event Args, System. Threading. Tasks. Task >	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Func<UIMouseEventArgs, Task>)

Appends a frame representing an System.Func<, >-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Func<UIMouseEventArgs, Task> value)

Parameters

raiameters			
ТҮРЕ	NAME	DESCRIPTION	
RenderTreeBuilder	builder	The RenderTreeBuilder.	
System.Int32	sequence	An integer that represents the position of the instruction in the source code.	
System.String	name	The name of the attribute.	
System.Func < UIMouse Event Args, System. Threading. Tasks. Task >	value	The value of the attribute.	

AddAttribute(RenderTreeBuilder, Int32, String, Func<UIPointerEventArgs, Task>)

Appends a frame representing an System.Func<, >-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Func<UIPointerEventArgs, Task> value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Func <uipointereventargs, system.threading.tasks.task=""></uipointereventargs,>	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Func<UIProgressEventArgs, Task>)

Appends a frame representing an System.Func<, >-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Func<UIProgressEventArgs, Task> value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Func <uiprogresseventargs, system.threading.tasks.task=""></uiprogresseventargs,>	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Func<UITouchEventArgs, Task>)

Appends a frame representing an System.Func<, >-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Func<UITouchEventArgs, Task> value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Func <uitoucheventargs, system.threading.tasks.task=""></uitoucheventargs,>	value	The value of the attribute.

AddAttribute(RenderTreeBuilder, Int32, String, Func<UIWheelEventArgs, Task>)

Appends a frame representing an System.Func<, >-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public static void AddAttribute(this RenderTreeBuilder builder, int sequence, string name, Func<UIWheelEventArgs, Task> value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	The RenderTreeBuilder.
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Func <uiwheeleventargs, system.threading.tasks.task=""></uiwheeleventargs,>	value	The value of the attribute.

Class UIFocusEventArgs

Supplies information about a focus event that is being raised.

Inheritance

System.Object

UIEventArgs

UIFocusEventArgs

Inherited Members

UIEventArgs.Type

Namespace: Microsoft.AspNetCore.Blazor Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public class UIFocusEventArgs : UIEventArgs

Constructors

UIFocusEventArgs()

Declaration

public UIFocusEventArgs()

Class UIKeyboardEventArgs

Supplies information about a keyboard event that is being raised.

Inheritance

System.Object

UIEventArgs

UIKeyboardEventArgs

Inherited Members

UIEventArgs.Type

Namespace: Microsoft.AspNetCore.Blazor Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public class UIKeyboardEventArgs : UIEventArgs

Constructors

UIKeyboardEventArgs()

Declaration

public UIKeyboardEventArgs()

Properties

AltKey

true if the alt key was down when the event was fired. false otherwise.

Declaration

public bool AltKey { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

Code

Holds a string that identifies the physical key being pressed. The value is not affected by the current keyboard layout or modifier state, so a particular key will always return the same value.

Declaration

public string Code { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

CtrlKey

true if the control key was down when the event was fired. false otherwise.

<pre>public bool CtrlKey { get; set; }</pre>

ТҮРЕ	DESCRIPTION
System.Boolean	

Key

The key value of the key represented by the event. If the value has a printed representation, this attribute's value is the same as the char attribute. Otherwise, it's one of the key value strings specified in 'Key values'. If the key can't be identified, this is the string "Unidentified"

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Location

The location of the key on the device.

Declaration

```
public float Location { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Single	

MetaKey

true if the meta key was down when the event was fired. false otherwise.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

Repeat

true if a key has been depressed long enough to trigger key repetition, otherwise false.

Declaration

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

ТҮРЕ	DESCRIPTION
System.Boolean	

ShiftKey

true if the shift key was down when the event was fired. false otherwise.

Declaration

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

ТҮРЕ	DESCRIPTION
System.Boolean	

Class UlMouseEventArgs

Supplies information about a mouse event that is being raised.

Inheritance

System.Object

UIEventArgs

UIMouseEventArgs

UIPointerEventArgs

UIWheelEventArgs

Inherited Members

UIEventArgs.Type

Namespace: Microsoft.AspNetCore.Blazor Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public class UIMouseEventArgs : UIEventArgs

Constructors

UIMouseEventArgs()

Declaration

public UIMouseEventArgs()

Properties

AltKey

true if the alt key was down when the event was fired. false otherwise.

Declaration

public bool AltKey { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

Button

The button number that was pressed when the mouse event was fired: Left button=0, middle button=1 (if present), right button=2. For mice configured for left handed use in which the button actions are reversed the values are instead read from right to left.

Declaration

public long Button { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

Buttons

The buttons being pressed when the mouse event was fired: Left button=1, Right button=2, Middle (wheel) button=4, 4th button (typically, "Browser Back" button)=8, 5th button (typically, "Browser Forward" button)=16. If two or more buttons are pressed, returns the logical sum of the values. E.g., if Left button and Right button are pressed, returns 3 (=1 | 2).

Declaration

: long Buttons { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

ClientX

The X coordinate of the mouse pointer in local (DOM content) coordinates.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

ClientY

The Y coordinate of the mouse pointer in local (DOM content) coordinates.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

CtrlKey

true if the control key was down when the event was fired. false otherwise.

Declaration

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

Property Value

alter A leaves	
ТУРЕ	DESCRIPTION
System.Boolean	

Detail

A count of consecutive clicks that happened in a short amount of time, incremented by one.

; }		
-----	--	--

ТҮРЕ	DESCRIPTION
System.Single	

MetaKey

true if the meta key was down when the event was fired. false otherwise.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

ScreenX

The X coordinate of the mouse pointer in global (screen) coordinates.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

ScreenY

The Y coordinate of the mouse pointer in global (screen) coordinates.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

ShiftKey

true if the shift key was down when the event was fired. false otherwise.

Declaration

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

ТҮРЕ	DESCRIPTION
System.Boolean	

Class UIPointerEventArgs

Supplies information about a mouse event that is being raised.

Inheritance

System.Object

UIEventArgs

UIMouseEventArgs

UIPointerEventArgs

Inherited Members

UIMouseEventArgs.Detail

UIMouseEventArgs.ScreenX

UIMouseEventArgs.ScreenY

UIMouseEventArgs.ClientX

 ${\color{blue} \mathsf{UIMouse Event Args. Client Y}}$

UIMouseEventArgs.Button

 ${\color{blue} \mathsf{UIMouse}} \\ \textbf{EventArgs}. \\ \textbf{Buttons}$

 ${\color{blue} {\sf UIMouse Event Args. Ctrl Key}}$

UIMouseEventArgs.ShiftKey

UIMouseEventArgs.AltKey

UIMouseEventArgs.MetaKey

UIEventArgs.Type

Namespace: Microsoft.AspNetCore.Blazor Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public class UIPointerEventArgs : UIMouseEventArgs

Constructors

UIPointerEventArgs()

Declaration

public UIPointerEventArgs()

Properties

Height

The height (magnitude on the Y axis), in CSS pixels, of the contact geometry of the pointer.

Declaration

public float Height { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.Single	

IsPrimary

Indicates if the pointer represents the primary pointer of this pointer type.

|--|--|

ТҮРЕ	DESCRIPTION
System.Boolean	

PointerId

A unique identifier for the pointer causing the event.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.String	

PointerType

Indicates the device type that caused the event. Must be one of the strings mouse, pen or touch, or an empty string.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Pressure

The normalized pressure of the pointer input in the range of 0 to 1, where 0 and 1 represent the minimum and maximum pressure the hardware is capable of detecting, respectively.

Declaration

```
public float Pressure { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Single	

TiltX

The plane angle (in degrees, in the range of -90 to 90) between the Y-Z plane and the plane containing both the transducer (e.g. pen stylus) axis and the Y axis.

```
public float TiltX { get; set; }
```

ТҮРЕ	DESCRIPTION
System.Single	

TiltY

The plane angle (in degrees, in the range of -90 to 90) between the X-Z plane and the plane containing both the transducer (e.g. pen stylus) axis and the X axis.

Declaration

TiltY { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Single	

Width

The width (magnitude on the X axis), in CSS pixels, of the contact geometry of the pointer.

Declaration

```
public float Width { get; set; }
```

ТҮРЕ	DESCRIPTION
System.Single	

Class UIProgressEventArgs

Supplies information about a progress event that is being raised.

Inheritance

System.Object

UIEventArgs

UIProgressEventArgs

Inherited Members

UIEventArgs.Type

Namespace: Microsoft.AspNetCore.Blazor Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public class UIProgressEventArgs : UIEventArgs

Constructors

UIProgressEventArgs()

Declaration

public UIProgressEventArgs()

Properties

LengthComputable

Whether or not the total size of the transfer is known.

Declaration

public bool LengthComputable { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

Loaded

The number of bytes transferred since the beginning of the operation. This doesn't include headers and other overhead, but only the content itself.

Declaration

public long Loaded { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

Total

The total number of bytes of content that will be transferred during the operation. If the total size is unknown, this value is zero.

|--|--|

ТҮРЕ	DESCRIPTION
System.Int64	

Class UITouchEventArgs

Supplies information about a touch event that is being raised.

Inheritance

System.Object

UIEventArgs

UITouchEventArgs

Inherited Members

UIEventArgs.Type

 $Name space: {\bf Microsoft. AspNetCore. Blazor} \\ Assembly: {\bf Microsoft. AspNetCore. Blazor. dll} \\$

Syntax

```
public class UITouchEventArgs : UIEventArgs
```

Constructors

UITouchEventArgs()

Declaration

```
public UITouchEventArgs()
```

Properties

AltKey

true if the alt key was down when the event was fired. false otherwise.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

ChangedTouches

A list of Touches for every point of contact which contributed to the event. For the touchstart event this must be a list of the touch points that just became active with the current event. For the touchmove event this must be a list of the touch points that have moved since the last event. For the touchend and touchcancel events this must be a list of the touch points that have just been removed from the surface.

Declaration

```
public UITouchPoint[] ChangedTouches { get; set; }
```

ТҮРЕ	DESCRIPTION
UITouchPoint[]	

true if the control key was down when the event was fired. false otherwise.

Declaration

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

Property Value

ТУРЕ	DESCRIPTION
System.Boolean	

Detail

A count of consecutive clicks that happened in a short amount of time, incremented by one.

Declaration

```
public float Detail { get; set; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.Single	

MetaKey

true if the meta key was down when the event was fired. false otherwise.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

ShiftKey

true if the shift key was down when the event was fired. false otherwise.

Declaration

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

Property Value

ТУРЕ	DESCRIPTION
System.Boolean	

TargetTouches

A list of UITouchPoint for every point of contact that is touching the surface and started on the element that is the target of the current event.

lic UITouchPoint[] TargetTouches { get; set; }
<pre>ouchPoint[] TargetTouches { get; set;</pre>

ТҮРЕ	DESCRIPTION
UITouchPoint[]	

Touches

A list of UITouchPoint for every point of contact currently touching the surface.

Declaration

```
public UITouchPoint[] Touches { get; set; }
```

ТҮРЕ	DESCRIPTION
UITouchPoint[]	

Class UlTouchPoint

Represents a single contact point on a touch-sensitive device. The contact point is commonly a finger or stylus and the device may be a touchscreen or trackpad.

Inheritance

System.Object

UITouchPoint

 $Name space: {\bf Microsoft. AspNetCore. Blazor} \\ Assembly: {\bf Microsoft. AspNetCore. Blazor. dll} \\$

Syntax

public class UITouchPoint : Object

Constructors

UITouchPoint()

Declaration

public UITouchPoint()

Properties

ClientX

The X coordinate of the touch point relative to the left edge of the browser viewport, not including any scroll offset.

Declaration

public long ClientX { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.Int64	

ClientY

The Y coordinate of the touch point relative to the top edge of the browser viewport, not including any scroll offset.

Declaration

public long ClientY { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

Identifier

A unique identifier for this Touch object. A given touch point (say, by a finger) will have the same identifier for the duration of its movement around the surface. This lets you ensure that you're tracking the same touch all the time.

Declaration

public long Identifier { get; set; }

ТҮРЕ	DESCRIPTION
System.Int64	

PageX

The X coordinate of the touch point relative to the left edge of the document. Unlike ClientX, this value includes the horizontal scroll offset, if any.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

PageY

The Y coordinate of the touch point relative to the top of the document. Unlike ClientY, this value includes the vertical scroll offset, if any.

Declaration

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

Property Value

•	
ТҮРЕ	DESCRIPTION
System.Int64	

ScreenX

The X coordinate of the touch point relative to the left edge of the screen.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.Int64	

ScreenY

The Y coordinate of the touch point relative to the top edge of the screen.

Declaration

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

ТҮРЕ	DESCRIPTION
System.Int64	

Class UIWheelEventArgs

Supplies information about a mouse wheel event that is being raised.

Inheritance

System.Object

UIEventArgs

UIMouseEventArgs

UIWheelEventArgs

Inherited Members

UIMouseEventArgs.Detail

UIMouseEventArgs.ScreenX

UIMouseEventArgs.ScreenY

UIMouseEventArgs.ClientX

UIMouseEventArgs.ClientY

UIMouseEventArgs.Button

UIMouseEventArgs.Buttons

UIMouseEventArgs.CtrlKey

UIMouseEventArgs.ShiftKey

UIMouseEventArgs.AltKey

UIMouseEventArgs.MetaKey

UIEventArgs.Type

Namespace: Microsoft.AspNetCore.Blazor Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public class UIWheelEventArgs : UIMouseEventArgs

Constructors

UIWheelEventArgs()

Declaration

public UIWheelEventArgs()

Properties

DeltaMode

The unit of the delta values scroll amount.

Declaration

public long DeltaMode { get; set; }

Property Value

ТУРЕ	DESCRIPTION
System.Int64	

DeltaX

The horizontal scroll amount.

blic double DeltaX { get; set; }

ТУРЕ	DESCRIPTION
System.Double	

DeltaY

The vertical scroll amount.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.Double	

DeltaZ

The scroll amount for the z-axis.

Declaration

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

ТҮРЕ	DESCRIPTION
System.Double	

Namespace Microsoft.AspNetCore.Blazor.Browser.Http

Classes

Browser Http Message Handler

Fetch Credentials Option

Specifies a value for the 'credentials' option on outbound HTTP requests.

Class BrowserHttpMessageHandler

A browser-compatible implementation of System.Net.Http.HttpMessageHandler

Inheritance

System.Object

BrowserHttpMessageHandler

Name space: Microsoft. AspNetCore. Blazor. Browser. Http

Assembly: Microsoft.AspNetCore.Blazor.Browser.dll

Syntax

public class BrowserHttpMessageHandler : HttpMessageHandler

Constructors

BrowserHttpMessageHandler()

Declaration

public BrowserHttpMessageHandler()

Fields

FetchArgs

The name of a well-known property that can be added to System.Net.Http.HttpRequestMessage.Properties to control the arguments passed to the underlying JavaScript

fetch

API.

Declaration

public const string FetchArgs = "BrowserHttpMessageHandler.FetchArgs"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Properties

DefaultCredentials

Gets or sets the default value of the 'credentials' option on outbound HTTP requests. Defaults to SameOrigin.

Declaration

public static FetchCredentialsOption DefaultCredentials { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
FetchCredentialsOption	

Methods

${\sf SendAsync}({\sf HttpRequestMessage},\ {\sf CancellationToken})$

Declaration

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

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Net.Http.HttpRequestMessage	request	
System.Threading.CancellationToken	cancellationToken	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < System. Net. Http. Http Response Message >	

Class FetchCredentialsOption

Specifies a value for the 'credentials' option on outbound HTTP requests.

Inheritance

System.Object

Fetch Credentials Option

Namespace: Microsoft.AspNetCore.Blazor.Browser.Http
Assembly: Microsoft.AspNetCore.Blazor.Browser.dll

Syntax

public sealed class FetchCredentialsOption : Enum

Fields

Include

Advises the browser to send credentials (such as cookies or HTTP auth headers) even for cross-origin requests.

Declaration

public const FetchCredentialsOption Include

Field Value

ТҮРЕ	DESCRIPTION
FetchCredentialsOption	

Omit

Advises the browser never to send credentials (such as cookies or HTTP auth headers).

Declaration

public const FetchCredentialsOption Omit

Field Value

ТҮРЕ	DESCRIPTION
FetchCredentialsOption	

SameOrigin

Advises the browser to send credentials (such as cookies or HTTP auth headers) only if the target URL is on the same origin as the calling application.

Declaration

public const FetchCredentialsOption SameOrigin

Field Value

ТҮРЕ	DESCRIPTION
FetchCredentialsOption	

Declaration

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

Namespace Microsoft.AspNetCore.Blazor.Browser.Rendering

Classes

BrowserRenderer

Provides mechanisms for rendering IComponent instances in a web browser, dispatching events to them, and refreshing the UI as required.

Browser Renderer Event Dispatcher

Provides mechanisms for dispatching events to components in a BrowserRenderer. This is marked 'internal' because it only gets invoked from JS code.

Browser Renderer Event Dispatcher. Browser Event Descriptor

For framework use only.

Class BrowserRenderer

Provides mechanisms for rendering IComponent instances in a web browser, dispatching events to them, and refreshing the UI as required.

Inheritance

System.Object

Renderer

BrowserRenderer

Implements

System.IDisposable

Inherited Members

Renderer.InstantiateComponent(Type)

Renderer.AssignComponentld(IComponent)

Renderer.DispatchEvent(Int32, Int32, UIEventArgs)

Name space: Microsoft. AspNetCore. Blazor. Browser. Rendering

 $Assembly: \ Microsoft. AspNetCore. Blazor. Browser. dll$

Syntax

public class BrowserRenderer : Renderer, IDisposable

Constructors

BrowserRenderer()

Constructs an instance of BrowserRenderer.

Declaration

public BrowserRenderer()

BrowserRenderer(IServiceProvider)

Constructs an instance of BrowserRenderer.

Declaration

public BrowserRenderer(IServiceProvider serviceProvider)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.IServiceProvider	serviceProvider	The System.IServiceProvider to use when initializing components.

Methods

AddComponent(Type, String)

Associates the IComponent with the BrowserRenderer, causing it to be displayed in the specified DOM element.

Declaration

public void AddComponent(Type componentType, string domElementSelector)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Type	componentType	The type of the component.
System.String	domElementSelector	A CSS selector that uniquely identifies a DOM element.

AddComponent < TComponent > (String)

Attaches a new root component to the renderer, causing it to be displayed in the specified DOM element.

Declaration

public void AddComponent<TComponent>(string domElementSelector)
 where TComponent : IComponent

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	domElementSelector	A CSS selector that uniquely identifies a DOM element.

Type Parameters

NAME	DESCRIPTION
TComponent	The type of the component.

Dispose()

Disposes the instance.

Declaration

public void Dispose()

UpdateDisplay(RenderBatch)

Updates the visible UI.

Declaration

protected override void UpdateDisplay(in RenderBatch batch)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderBatch	batch	

Overrides

Renderer. Update Display (Render Batch)

Implements

System.IDisposable

Class BrowserRendererEventDispatcher

Provides mechanisms for dispatching events to components in a BrowserRenderer. This is marked 'internal' because it only gets invoked from JS code.

Inheritance

System.Object

Browser Renderer Event Dispatcher

Name space: M icrosoft. AspNetCore. Blazor. Browser. Rendering

 $Assembly: \ Microsoft. AspNetCore. Blazor. Browser. dll$

Syntax

public static class BrowserRendererEventDispatcher : Object

Methods

 $Dispatch Event (Browser Renderer Event Dispatcher. Browser Event Descriptor, \ String)$

For framework use only.

Declaration

[JSInvokable("DispatchEvent")]

public static void DispatchEvent(BrowserRendererEventDispatcher.BrowserEventDescriptor eventDescriptor, string eventArgsJson)

Parameters

ТҮРЕ	NAME	DESCRIPTION
BrowserRenderer Event Dispatcher. Browser Event Descriptor	eventDescriptor	
System.String	eventArgsJson	

Class

Browser Renderer Event Dispatcher. Browser Event Descriptor

For framework use only.

Inheritance

System.Object

Browser Renderer Event Dispatcher. Browser Event Descriptor

Name space: Microsoft. AspNetCore. Blazor. Browser. Rendering

Assembly: Microsoft.AspNetCore.Blazor.Browser.dll

Syntax

public class BrowserEventDescriptor : Object

Constructors

BrowserEventDescriptor()

Declaration

public BrowserEventDescriptor()

Properties

BrowserRendererId

For framework use only.

Declaration

public int BrowserRendererId { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Int32	

ComponentId

For framework use only.

Declaration

public int ComponentId { get; set; }

Property Value

ТҮРЕ	DESCRIPTION	
System.Int32		

EventArgsType

For framework use only.

Declaration

public string EventArgsType { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

EventHandlerId

For framework use only.

Declaration

<pre>public int EventHandlerId { get; set; }</pre>	
--	--

ТҮРЕ	DESCRIPTION
System.Int32	

Namespace Microsoft.AspNetCore.Blazor.Browser.Services

Classes

ActivateMonoJSRuntime

Temporary mechanism for registering the Mono JS runtime. Developers do not need to use this directly, and it will be removed shortly.

BrowserServiceProvider

An implementation of System.IServiceProvider configured with default services suitable for use in a browser environment.

BrowserUriHelper

Default browser implementation of IUriHelper.

Class ActivateMonoJSRuntime

Temporary mechanism for registering the Mono JS runtime. Developers do not need to use this directly, and it will be removed shortly.

Inheritance

System.Object

ActivateMonoJSRuntime

Name space: Microsoft. AspNetCore. Blazor. Browser. Services

 $Assembly: \ Microsoft. AspNetCore. Blazor. Browser. dll$

Syntax

public class ActivateMonoJSRuntime : Object

Constructors

ActivateMonoJSRuntime()

Declaration

public ActivateMonoJSRuntime()

Methods

EnsureActivated()

Temporary mechanism for registering the Mono JS runtime. Developers do not need to use this directly, and it will be removed shortly. The return value is intended to be used with GC.KeepAlive purely as a way of ensuring the invocation doesn't get stripped out by the linker (if it's smart enough to do so).

Declaration

public static object EnsureActivated()

Returns

ТҮРЕ	DESCRIPTION
System.Object	

Class BrowserServiceProvider

An implementation of System.IServiceProvider configured with default services suitable for use in a browser environment.

Inheritance

System.Object

BrowserServiceProvider

Implements

System.IServiceProvider

Name space: Microsoft. AspNetCore. Blazor. Browser. Services

Assembly: Microsoft.AspNetCore.Blazor.Browser.dll

Syntax

public class BrowserServiceProvider : Object, IServiceProvider

Constructors

BrowserServiceProvider()

Constructs an instance of BrowserServiceProvider.

Declaration

public BrowserServiceProvider()

BrowserServiceProvider(Action<IServiceCollection>)

Constructs an instance of BrowserServiceProvider.

Declaration

public BrowserServiceProvider(Action<IServiceCollection> configure)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Action < Microsoft.Extensions.DependencyInjection.IServiceCollection >	configure	A callback that can be used to configure the Microsoft.Extensions.DependencyInjection.IServiceCollection.

Methods

GetService(Type)

Declaration

public object GetService(Type serviceType)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Type	serviceType	

Returns

ТҮРЕ	DESCRIPTION
System.Object	

Implements

System.IServiceProvider

Class BrowserUriHelper

Default browser implementation of IUriHelper.

Inheritance

System.Object

UriHelperBase

BrowserUriHelper

Implements

IUriHelper

Inherited Members

UriHelperBase.NavigateTo(String)

UriHelperBase.GetAbsoluteUri()

UriHelperBase.GetBaseUri()

UriHelperBase.ToAbsoluteUri(String)

UriHelperBase.ToBaseRelativePath(String, String)

UriHelperBase.SetAbsoluteUri(String)

UriHelperBase.SetAbsoluteBaseUri(String)

UriHelperBase.TriggerOnLocationChanged()

UriHelperBase.OnLocationChanged

Name space: Microsoft. AspNetCore. Blazor. Browser. Services

Assembly: Microsoft. AspNetCore. Blazor. Browser. dll

Syntax

public class BrowserUriHelper: UriHelperBase, IUriHelper

Fields

Instance

Gets the instance of BrowserUriHelper.

Declaration

public static readonly BrowserUriHelper Instance

Field Value

ТҮРЕ	DESCRIPTION
BrowserUriHelper	

Methods

InitializeState()

Called to initialize BaseURI and current URI before those values the first time. Override this method to dynamically calculate the those values.

Declaration

protected override void InitializeState()

Overrides

UriHelperBase.InitializeState()

NavigateToCore(String)

Navigates to the specified URI.

Declaration

protected override void NavigateToCore(string uri)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	uri	The destination URI. This can be absolute, or relative to the base URI (as returned by GetBaseUri()).

Overrides

UriHelperBase. Navigate To Core (String)

NotifyLocationChanged(String)

For framework use only.

Declaration

[JSInvokable("NotifyLocationChanged")]
public static void NotifyLocationChanged(string newAbsoluteUri)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	newAbsoluteUri	

Implements

IUriHelper

Namespace Microsoft.AspNetCore.Blazor.Builder

Classes

Blazor Application Builder Extensions

Provides extension methods for IBlazorApplicationBuilder.

Interfaces

IB lazor Application Builder

A builder for constructing a Blazor application.

Class BlazorApplicationBuilderExtensions

Provides extension methods for IBlazorApplicationBuilder.

Inheritance

System.Object

BlazorApplicationBuilderExtensions

 $Name space: {\bf Microsoft. AspNetCore. Blazor. Builder} \\ Assembly: {\bf Microsoft. AspNetCore. Blazor. Browser. dll} \\$

Syntax

public static class BlazorApplicationBuilderExtensions : Object

Methods

AddComponent < TComponent > (IBlazorApplicationBuilder, String)

Associates the component type with the application, causing it to be displayed in the specified DOM element.

Declaration

public static void AddComponent<TComponent>(this IBlazorApplicationBuilder app, string domElementSelector)
 where TComponent : IComponent

Parameters

ТҮРЕ	NAME	DESCRIPTION
IBlazorApplicationBuilder	арр	The IBlazorApplicationBuilder.
System.String	domElementSelector	A CSS selector that uniquely identifies a DOM element.

Type Parameters

NAME	DESCRIPTION
TComponent	The type of the component.

Interface IBlazorApplicationBuilder

A builder for constructing a Blazor application.

Namespace: Microsoft.AspNetCore.Blazor.Builder
Assembly: Microsoft.AspNetCore.Blazor.Browser.dll

Syntax

public interface IBlazorApplicationBuilder

Properties

Services

Gets the application services.

Declaration

IServiceProvider Services { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.IServiceProvider	

Methods

AddComponent(Type, String)

Associates the IComponent with the application, causing it to be displayed in the specified DOM element.

Declaration

void AddComponent(Type componentType, string domElementSelector)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Type	componentType	The type of the component.
System.String	domElementSelector	A CSS selector that uniquely identifies a DOM element.

Extension Methods

Blazor Application Builder Extensions. Add Component < TComponent > (IBlazor Application Builder, String)

Namespace Microsoft.AspNetCore.Blazor.Components

Classes

BindAttributes

Infrastructure for the discovery of bind attributes for markup elements.

BindElementAttribute

Configures options for binding specific element types.

BindInputElementAttribute

Configures options for binding subtypes of an HTML

input

element.

BindMethods

Methods used internally by @bind syntax. Not intended to be used directly.

BlazorComponent

Optional base class for Blazor components. Alternatively, Blazor components may implement IComponent directly.

EventHandlerAttribute

Associates an event argument type with an event attribute name.

EventHandlerInvoker

A bound event handler delegate.

EventHandlers

Holds System. Event Handler attributes to configure the mappings between event names and event argument types.

InjectAttribute

Indicates that the associated property should have a value injected from the service provider during initialization.

Parameter

Represents a single parameter supplied to an IComponent by its parent in the render tree.

Parameter Attribute

Denotes the target member as a component parameter.

ParameterCollection

Represents a collection of parameters supplied to an IComponent by its parent in the render tree.

ParameterCollectionExtensions

Extension methods for the ParameterCollection type.

ParameterEnumerator

An enumerator that iterates through a ParameterCollection.

RenderHandle

Allows a component to notify the renderer that it should be rendered.

RouteAttribute

Indicates that the associated component should match the specified route template pattern.

RuntimeHelpers

Used by generated code produced by the Blazor code generator. Not intended or supported for use in application code.

Interfaces

IComponent

Represents a UI component.

IHandleAfterRender

Interface implemented by components that receive notification that they have been rendered.

IHandleEvent

Interface implemented by components that receive notification of their events.

Class BindAttributes

Infrastructure for the discovery of bind attributes for markup elements.

Inheritance

System.Object

BindAttributes

Name space: Microsoft. AspNetCore. Blazor. Components

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

```
[BindInputElement(null, null, "value", "onchange")]
[BindInputElement("checkbox", null, "checked", "onchange")]
[BindInputElement("text", null, "value", "onchange")]
[BindElement("select", null, "value", "onchange")]
[BindElement("textarea", null, "value", "onchange")]
public static class BindAttributes : Object
```

Remarks

To extend the set of bind attributes, define a public class named BindAttributes and annotate it with the appropriate attributes.

Class BindElementAttribute

Configures options for binding specific element types.

Inheritance

System.Object

Bind Element Attribute

Name space: Microsoft. AspNetCore. Blazor. Components

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public sealed class BindElementAttribute : Attribute

Constructors

BindElementAttribute(String, String, String, String)

Constructs an instance of BindElementAttribute.

Declaration

public BindElementAttribute(string element, string suffix, string valueAttribute, string changeAttribute)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	element	The tag name of the element.
System.String	suffix	The suffix value. For example, set this to value for bind-value , or set this to null for bind .
System.String	valueAttribute	The name of the value attribute to be bound.
System.String	changeAttribute	The name of an attribute that will register an associated change event.

Properties

ChangeAttribute

Gets the name of an attribute that will register an associated change event. Declaration public string ChangeAttribute { get; } Property Value DESCRIPTION TYPE System.String Element Gets the tag name of the element. Declaration public string Element { get; } Property Value TYPE DESCRIPTION System.String Suffix Gets the suffix value. For example, this will be value to mean bind-value , or null to mean

bind

.

Declaration

public string Suffix { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

ValueAttribute

Gets the name of the value attribute to be bound.

Declaration

public string ValueAttribute { get; }

ТҮРЕ	DESCRIPTION
System.String	

Class BindInputElementAttribute

Configures options for binding subtypes of an HTML

input

element.

Inheritance

System.Object

BindInputElementAttribute

Name space: M icrosoft. AspNetCore. Blazor. Components

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public sealed class BindInputElementAttribute : Attribute

Constructors

BindInputElementAttribute(String, String, String, String)

Constructs an instance of BindInputElementAttribute.

Declaration

public BindInputElementAttribute(string type, string suffix, string valueAttribute, string changeAttribute)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	type	The value of the element's type attribute.
System.String	suffix	The suffix value.
System.String	value Attribute	The name of the value attribute to be bound.
System.String	change Attribute	The name of an attribute that will register an associated change event.

Properties

ChangeAttribute

Gets the name of an attribute that will register an associated change event.

Declaration

public string ChangeAttribute { get; }

ТҮРЕ	DESCRIPTION
System.String	

Suffix

Gets the suffix value.

Declaration

```
public string Suffix { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Туре

Gets the value of the element's

type

attribute.

Declaration

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

Property Value

ТҮРЕ	DESCRIPTION
System.String	

ValueAttribute

Gets the name of the value attribute to be bound.

Declaration

```
public string ValueAttribute { get; }
```

ТҮРЕ	DESCRIPTION
System.String	

Class BindMethods

Methods used internally by @bind syntax. Not intended to be used directly.

Inheritance

System.Object

BindMethods

Name space: M icrosoft. Asp N et Core. B lazor. Components

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public static class BindMethods : Object

Methods

GetEventHandlerValue<T>(Action)

Not intended to be used directly.

Declaration

public static MulticastDelegate GetEventHandlerValue<T>(Action value)
 where T : UIEventArgs

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Action	value	

Returns

ТҮРЕ	DESCRIPTION
System. Multicast Delegate	

Type Parameters

NAME	DESCRIPTION
Т	

GetEventHandlerValue<T>(Action<T>)

Not intended to be used directly.

Declaration

public static MulticastDelegate GetEventHandlerValue<T>(Action<T> value)
 where T : UIEventArgs

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Action < T >	value	

Returns

ТҮРЕ	DESCRIPTION
System. Multicast Delegate	

Type Parameters

NAME	DESCRIPTION
Т	

GetEventHandlerValue<T>(Func<T, Task>)

Not intended to be used directly.

Declaration

public static MulticastDelegate GetEventHandlerValue<T>(Func<T, Task> value)
 where T : UIEventArgs

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Func <t, system.threading.tasks.task=""></t,>	value	

Returns

ТҮРЕ	DESCRIPTION
System. Multicast Delegate	

Type Parameters

NAME	DESCRIPTION
Т	

GetEventHandlerValue<T>(Func<Task>)

Not intended to be used directly.

Declaration

public static MulticastDelegate GetEventHandlerValue<T>(Func<Task> value)
 where T : UIEventArgs

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Func < System.Threading.Tasks.Task >	value	

Returns

ТҮРЕ	DESCRIPTION
System. Multicast Delegate	

NAME	DESCRIPTION
Т	

GetEventHandlerValue<T>(String)

Not intended to be used directly.

Declaration

public static string GetEventHandlerValue<T>(string value)
 where T : UIEventArgs

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	value	

Returns

ТҮРЕ	DESCRIPTION
System.String	

Type Parameters

NAME	DESCRIPTION
Т	

GetValue(DateTime, String)

Not intended to be used directly.

Declaration

public static string GetValue(DateTime value, string format)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.DateTime	value	
System.String	format	

Returns

ТҮРЕ	DESCRIPTION
System.String	

GetValue<T>(T)

Not intended to be used directly.

Declaration

public static T GetValue<T>(T value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Т	value	

Returns

ТҮРЕ	DESCRIPTION
Т	

Type Parameters

NAME	DESCRIPTION
Т	

SetValueHandler(Action < Boolean > , Boolean)

Not intended to be used directly.

Declaration

public static Action<UIEventArgs> SetValueHandler(Action<bool> setter, bool existingValue)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Action < System.Boolean >	setter	
System.Boolean	existingValue	

Returns

ТҮРЕ		DESCRIPTION
System.Act	ion < UIEventArgs >	

SetValueHandler(Action < DateTime >, DateTime)

Not intended to be used directly.

Declaration

public static Action<UIEventArgs> SetValueHandler(Action<DateTime> setter, DateTime existingValue)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Action < System.DateTime >	setter	
System.DateTime	existing Value	

Returns

ТҮРЕ	DESCRIPTION
System.Action < UIEventArgs >	

SetValueHandler(Action < DateTime > , DateTime, String)

Not intended to be used directly.

Declaration

public static Action<UIEventArgs> SetValueHandler(Action<DateTime> setter, DateTime existingValue, string format)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Action < System.DateTime >	setter	
System.DateTime	existing Value	
System.String	format	

Returns

ТҮРЕ	DESCRIPTION
System.Action < UIEventArgs >	

SetValueHandler(Action < Decimal > , Decimal)

Not intended to be used directly.

Declaration

public static Action<UIEventArgs> SetValueHandler(Action<Decimal> setter, Decimal existingValue)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Action < System.Decimal >	setter	
System.Decimal	existingValue	

Returns

ТҮРЕ	DESCRIPTION
System.Action < UIEventArgs >	

SetValueHandler(Action < Double > , Double)

Not intended to be used directly.

Declaration

public static Action<UIEventArgs> SetValueHandler(Action<double> setter, double existingValue)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Action < System.Double >	setter	
System.Double	existing Value	

Returns

ТҮРЕ	DESCRIPTION
System.Action < UIEventArgs >	

SetValueHandler(Action<Int32>, Int32)

Not intended to be used directly.

Declaration

public static Action<UIEventArgs> SetValueHandler(Action<int> setter, int existingValue)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Action < System.Int32 >	setter	
System.Int32	existingValue	

Returns

ТҮРЕ	DESCRIPTION
System.Action < UIEventArgs >	

SetValueHandler(Action<Int64>, Int64)

Not intended to be used directly.

Declaration

public static Action<UIEventArgs> SetValueHandler(Action<long> setter, long existingValue)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Action < System.Int64>	setter	
System.Int64	existingValue	

Returns

ТҮРЕ	DESCRIPTION
System.Action < UIEventArgs >	

SetValueHandler(Action < Single >, Single)

Not intended to be used directly.

Declaration

public static Action<UIEventArgs> SetValueHandler(Action<float> setter, float existingValue)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Action < System.Single>	setter	
System.Single	existingValue	

Returns

ТҮРЕ	DESCRIPTION
System.Action < UIEventArgs >	

SetValueHandler(Action < String >, String)

Not intended to be used directly.

Declaration

public static Action<UIEventArgs> SetValueHandler(Action<string> setter, string existingValue)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Action < System.String >	setter	
System.String	existingValue	

Returns

ТҮРЕ	DESCRIPTION
System.Action < UIEventArgs >	

SetValueHandler<T>(Action<T>, T)

Not intended to be used directly.

Declaration

public static Action<UIEventArgs> SetValueHandler<T>(Action<T> setter, T existingValue)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Action < T >	setter	
Т	existing Value	

Returns

ТҮРЕ	DESCRIPTION
System.Action < UIEventArgs >	

Type Parameters

NAME	DESCRIPTION
Т	

Class BlazorComponent

Optional base class for Blazor components. Alternatively, Blazor components may implement IComponent directly.

Inheritance

System.Object

BlazorComponent

BlazorLayoutComponent

Implements

IComponent

IHandleEvent

IHandleAfterRender

 $Name space: \ Microsoft. AspNetCore. Blazor. Components$

Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public abstract class BlazorComponent : Object, IComponent, IHandleEvent, IHandleAfterRender

Constructors

BlazorComponent()

Constructs an instance of BlazorComponent.

Declaration

public BlazorComponent()

Fields

BuildRenderTreeMethodName

Specifies the name of the Microsoft.AspNetCore.Blazor.RenderTree-building method.

Declaration

public const string BuildRenderTreeMethodName = "BuildRenderTree"

Field Value

ТҮРЕ		DESCRIPTION
System.S	tring	

Methods

BuildRenderTree(RenderTreeBuilder)

Renders the component to the supplied RenderTreeBuilder.

Declaration

protected virtual void BuildRenderTree(RenderTreeBuilder builder)

Parameters

ТҮРЕ	NAME	DESCRIPTION

ТУРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	A RenderTreeBuilder that will receive the render output.

OnAfterRender()

Method invoked after each time the component has been rendered.

Declaration

protected virtual void OnAfterRender()

On After Render Async()

Method invoked after each time the component has been rendered. Note that the component does not automatically re-render after the completion of any returned System. Threading. Tasks. Task, because that would cause an infinite render loop.

Declaration

protected virtual Task OnAfterRenderAsync()

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task	A System.Threading.Tasks.Task representing any asynchronous operation, or null.

OnInit()

Method invoked when the component is ready to start, having received its initial parameters from its parent in the render tree.

Declaration

protected virtual void OnInit()

OnInitAsync()

Method invoked when the component is ready to start, having received its initial parameters from its parent in the render tree.

Override this method if you will perform an asynchronous operation and want the component to refresh when that operation is completed.

Declaration

protected virtual Task OnInitAsync()

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task	A System.Threading.Tasks.Task representing any asynchronous operation, or null.

OnParametersSet()

Method invoked when the component has received parameters from its parent in the render tree, and the incoming values have been assigned to properties.

Declaration

protected virtual void OnParametersSet()

OnParametersSetAsync()

Method invoked when the component has received parameters from its parent in the render tree, and the incoming values have been assigned to properties.

Declaration

protected virtual Task OnParametersSetAsync()

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	A System.Threading.Tasks.Task representing any asynchronous operation, or null.

SetParameters(ParameterCollection)

Method invoked to apply initial or updated parameters to the component.

Declaration

public virtual void SetParameters(ParameterCollection parameters)

Parameters

ТУРЕ	NAME	DESCRIPTION
ParameterCollection	parameters	The parameters to apply.

ShouldRender()

Returns a flag to indicate whether the component should render.

Declaration

protected virtual bool ShouldRender()

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

StateHasChanged()

Notifies the component that its state has changed. When applicable, this will cause the component to be re-rendered.

Declaration

protected void StateHasChanged()

Explicit Interface Implementations

IComponent.Init(RenderHandle)

Declaration

		/- · · · · · · ·	
void	IComponent.Init	(RenderHandle	renderHandle)
4 O T C	T COMPONENCE THE	(Ittelliaer Hallare	1 Chaci hanarc)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderHandle	renderHandle	

IHandleAfterRender.OnAfterRender()

Declaration

void IHandleAfterRender.OnAfterRender()

$IH and le Event. Hand le Event (Event Handler Invoker, \ UIEvent Args)$

Declaration

void IHandleEvent.HandleEvent(EventHandlerInvoker binding, UIEventArgs args)

Parameters

ТҮРЕ	NAME	DESCRIPTION
EventHandlerInvoker	binding	
UIEventArgs	args	

Implements

IComponent

IHandleEvent

IHandleAfterRender

Class EventHandlerAttribute

Associates an event argument type with an event attribute name.

Inheritance

System.Object

EventHandlerAttribute

Name space: Microsoft. AspNetCore. Blazor. Components

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public sealed class EventHandlerAttribute : Attribute

Constructors

EventHandlerAttribute(String, Type)

Constructs an instance of EventHandlerAttribute.

Declaration

public EventHandlerAttribute(string attributeName, Type eventArgsType)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	attributeName	
System.Type	eventArgsType	

Properties

AttributeName

Gets the attribute name.

Declaration

public string AttributeName { get; }

Property Value

TY	PE	DESCRIPTION
Sys	stem.String	

EventArgsType

Gets the event argument type.

Declaration

public Type EventArgsType { get; }

ТҮРЕ	DESCRIPTION

ТҮРЕ	DESCRIPTION
System.Type	

Class EventHandlerInvoker

A bound event handler delegate.

Inheritance

System.Object

EventHandlerInvoker

Name space: Microsoft. AspNetCore. Blazor. Components

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public sealed class EventHandlerInvoker : ValueType

Constructors

EventHandlerInvoker(MulticastDelegate)

Creates the new EventHandlerInvoker.

Declaration

public EventHandlerInvoker(MulticastDelegate delegate)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System. Multicast Delegate	delegate	The delegate to bind.

Methods

Invoke(UIEventArgs)

Invokes the delegate associated with this binding.

Declaration

public Task Invoke(UIEventArgs e)

Parameters

ТУРЕ	NAME	DESCRIPTION
UIEventArgs	е	The UIEventArgs.

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

Class EventHandlers

Holds System. Event Handler attributes to configure the mappings between event names and event argument types.

Inheritance

System.Object

EventHandlers

 $Name space: {\bf Microsoft.} Asp {\bf NetCore.} Blazor. Components$

 $Assembly: \ Microsoft. AspNetCore. Blazor. dll$

Syntax

[EventHandler]			
[EventHandler]			
-			
[EventHandler]			

[EventHandler]
[EventHandler]
public static class EventHandlers : Object

Interface IComponent

Represents a UI component.

 $Name space: {\bf Microsoft.} Asp {\bf NetCore.} Blazor. Components$

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public interface IComponent

Methods

Init(RenderHandle)

Initializes the component.

Declaration

void Init(RenderHandle renderHandle)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderHandle	renderHandle	A RenderHandle that allows the component to be rendered.

SetParameters(ParameterCollection)

Sets parameters supplied by the component's parent in the render tree.

Declaration

void SetParameters(ParameterCollection parameters)

ТҮРЕ	NAME	DESCRIPTION
ParameterCollection	parameters	The parameters.

Interface IHandleAfterRender

Interface implemented by components that receive notification that they have been rendered.

 $Name space: {\bf Microsoft.} Asp {\bf NetCore.} Blazor. Components$

 $Assembly: \ Microsoft. AspNetCore. Blazor. dll$

Syntax

public interface IHandleAfterRender

Methods

OnAfterRender()

Notifies the component that it has been rendered.

Declaration

void OnAfterRender()

Interface IHandleEvent

Interface implemented by components that receive notification of their events.

 $Name space: {\bf Microsoft.} Asp {\bf NetCore.} Blazor. Components$

 $Assembly: \ Microsoft. AspNetCore. Blazor. dll$

Syntax

public interface IHandleEvent

Methods

 $Handle Event (Event Handler Invoker,\ UIEvent Args)$

Notifies the component that one of its event handlers has been triggered.

Declaration

void HandleEvent(EventHandlerInvoker binding, UIEventArgs args)

ТҮРЕ	NAME	DESCRIPTION
EventHandlerInvoker	binding	The event binding.
UIEventArgs	args	Arguments for the event handler.

Class InjectAttribute

Indicates that the associated property should have a value injected from the service provider during initialization.

Inheritance

System.Object

InjectAttribute

Name space: M icrosoft. AspNetCore. Blazor. Components

 $Assembly: \ Microsoft. AspNetCore. Blazor. d II$

Syntax

public class InjectAttribute : Attribute

Constructors

InjectAttribute()

Declaration

public InjectAttribute()

Class Parameter

Represents a single parameter supplied to an IComponent by its parent in the render tree.

Inheritance

System.Object

Parameter

 $Name space: {\bf Microsoft.} Asp {\bf NetCore.} Blazor. Components$

 $Assembly: \ Microsoft. AspNetCore. Blazor. d II$

Syntax

public sealed class Parameter : ValueType

Properties

Name

Gets the name of the parameter.

Declaration

public string Name { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Value

Gets the value of the parameter.

Declaration

public object Value { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Object	

Class ParameterAttribute

Denotes the target member as a component parameter.

Inheritance

System.Object

ParameterAttribute

 $Name space: {\bf Microsoft.} Asp {\bf NetCore.} Blazor. Components$

 $Assembly: \ Microsoft. AspNetCore. Blazor. d II$

Syntax

public sealed class ParameterAttribute : Attribute

Constructors

ParameterAttribute()

Declaration

public ParameterAttribute()

Class ParameterCollection

Represents a collection of parameters supplied to an IComponent by its parent in the render tree.

Inheritance

System.Object

ParameterCollection

 $Name space: {\bf Microsoft.} Asp {\bf NetCore.} Blazor. Components$

Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public sealed class ParameterCollection : ValueType

Properties

Empty

Gets an empty ParameterCollection.

Declaration

public static ParameterCollection Empty { get; }

Property Value

ТҮРЕ	DESCRIPTION
ParameterCollection	

Methods

GetEnumerator()

Returns an enumerator that iterates through the ParameterCollection.

Declaration

public ParameterEnumerator GetEnumerator()

Returns

ТҮРЕ	DESCRIPTION
ParameterEnumerator	The enumerator.

GetValueOrDefault<T>(String)

Gets the value of the parameter with the specified name, or a default value if no such parameter exists in the collection.

Declaration

public T GetValueOrDefault<T>(string parameterName)

ТҮРЕ	NAME	DESCRIPTION

ТҮРЕ	NAME	DESCRIPTION
System.String	parameterName	The name of the parameter.

Returns

ТҮРЕ	DESCRIPTION
Т	The parameter value if found; otherwise the default value for the specified type.

Type Parameters

NAME	DESCRIPTION
Т	The type of the value.

GetValueOrDefault<T>(String, T)

Gets the value of the parameter with the specified name, or a specified default value if no such parameter exists in the collection.

Declaration

public T GetValueOrDefault<T>(string parameterName, T defaultValue)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	parameterName	The name of the parameter.
Т	defaultValue	The default value to return if no such parameter exists in the collection.

Returns

ТҮРЕ	DESCRIPTION
Т	The parameter value if found; otherwise defaultValue.

Type Parameters

NAME	DESCRIPTION
Т	The type of the value.

ToDictionary()

Returns a dictionary populated with the contents of the ParameterCollection.

Declaration

public IReadOnlyDictionary<string, object> ToDictionary()

Returns

ТҮРЕ	DESCRIPTION
System.Collections.Generic.IReadOnlyDictionary < System.String, System.Object >	A dictionary populated with the contents of the ParameterCollection.

TryGetValue<T>(String, out T)

Gets the value of the parameter with the specified name.

Declaration

public bool TryGetValue<T>(string parameterName, out T result)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	parameterName	The name of the parameter.
Т	result	Receives the result, if any.

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	True if a matching parameter was found; false otherwise.

Type Parameters

NAME	DESCRIPTION
Т	The type of the value.

Extension Methods

Parameter Collection Extensions. Assign To Properties (Parameter Collection, Object)

Class ParameterCollectionExtensions

Extension methods for the ParameterCollection type.

Inheritance

System.Object

Parameter Collection Extensions

Name space: Microsoft. AspNetCore. Blazor. Components

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public static class ParameterCollectionExtensions : Object

Methods

AssignToProperties(ParameterCollection, Object)

Iterates through the ParameterCollection, assigning each parameter to a property of the same name on target.

Declaration

public static void AssignToProperties(this in ParameterCollection parameterCollection, object target)

ТҮРЕ	NAME	DESCRIPTION
ParameterCollection	parameterCollection	The ParameterCollection.
System.Object	target	An object that has a public writable property matching each parameter's name and type.

Class ParameterEnumerator

An enumerator that iterates through a ParameterCollection.

Inheritance

System.Object

ParameterEnumerator

 $Name space: \ Microsoft. AspNetCore. Blazor. Components$

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public sealed class ParameterEnumerator : ValueType

Properties

Current

Gets the current value of the enumerator.

Declaration

public Parameter Current { get; }

Property Value

ТҮРЕ	DESCRIPTION
Parameter	

Methods

MoveNext()

Instructs the enumerator to move to the next value in the sequence.

Declaration

public bool MoveNext()

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

Class RenderHandle

Allows a component to notify the renderer that it should be rendered.

Inheritance

System.Object

RenderHandle

Name space: Microsoft. AspNetCore. Blazor. Components

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public sealed class RenderHandle : ValueType

Properties

IsInitialized

Gets a value that indicates whether the RenderHandle has been initialised and is ready to use.

Declaration

public bool IsInitialized { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Boolean	

Methods

Render(RenderFragment)

Notifies the renderer that the component should be rendered.

Declaration

public void Render(RenderFragment renderFragment)

ТҮРЕ	NAME	DESCRIPTION
RenderFragment	renderFragment	The content that should be rendered.

Class RouteAttribute

Indicates that the associated component should match the specified route template pattern.

Inheritance

System.Object

RouteAttribute

Name space: Microsoft. AspNetCore. Blazor. Components

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public class RouteAttribute : Attribute

Constructors

RouteAttribute(String)

Constructs an instance of RouteAttribute.

Declaration

public RouteAttribute(string template)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	template	The route template.

Properties

Template

Gets the route template.

Declaration

public string Template { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Class RuntimeHelpers

Used by generated code produced by the Blazor code generator. Not intended or supported for use in application code.

Inheritance

System.Object

RuntimeHelpers

Name space: Microsoft. AspNetCore. Blazor. Components

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public static class RuntimeHelpers : Object

Methods

TypeCheck<T>(T)

Not intended for use by application code.

Declaration

public static T TypeCheck<T>(T value)

Parameters

ТУРЕ	NAME	DESCRIPTION
Т	value	

Returns

ТҮРЕ	DESCRIPTION
Т	

Type Parameters

NAME	DESCRIPTION
Т	

Namespace Microsoft.AspNetCore.Blazor.Hosting

Classes

Blazor Web Assembly Host

Used to to create instances a Blazor host builder for a Browser application.

Web Assembly Host Builder Context

Context containing the common services on the IWebAssemblyHost. Some properties may be null until set by the IWebAssemblyHost.

Web Assembly Host Builder Extensions

Provides Blazor-specific support for IWebAssemblyHost.

Web Assembly Host Extensions

Extension methods for IWebAssemblyHost.

Interfaces

IWeb Assembly Host

A program abstraction.

IWeb Assembly Host Builder

Abstraction for configuring a Blazor browser-based application.

Class BlazorWebAssemblyHost

Used to to create instances a Blazor host builder for a Browser application.

Inheritance

System.Object

Blazor Web Assembly Host

Namespace: Microsoft.AspNetCore.Blazor.Hosting
Assembly: Microsoft.AspNetCore.Blazor.Browser.dll

Syntax

public static class BlazorWebAssemblyHost : Object

Methods

CreateDefaultBuilder()

Creates a an instance of IWebAssemblyHostBuilder.

Declaration

public static IWebAssemblyHostBuilder CreateDefaultBuilder()

Returns

ТҮРЕ	DESCRIPTION
IWebAssemblyHostBuilder	The IWebAssemblyHostBuilder.

Interface IWebAssemblyHost

A program abstraction.

Namespace: Microsoft.AspNetCore.Blazor.Hosting
Assembly: Microsoft.AspNetCore.Blazor.Browser.dll

Syntax

public interface IWebAssemblyHost : IDisposable

Properties

Services

The programs configured services.

Declaration

IServiceProvider Services { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.IServiceProvider	

Methods

StartAsync(CancellationToken)

Start the program.

Declaration

Task StartAsync(CancellationToken cancellationToken = null)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System. Threading. Cancellation Token	cancellationToken	Used to abort program start.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task	

StopAsync(CancellationToken)

Attempts to gracefully stop the program.

Declaration

Task StopAsync(CancellationToken cancellationToken = null)

ТҮРЕ	NAME	DESCRIPTION
System. Threading. Cancellation Token	cancellationToken	Used to indicate when stop should no longer be graceful.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task	

Extension Methods

Web Assembly Host Extensions. Run (IWeb Assembly Host)

Interface IWebAssemblyHostBuilder

Abstraction for configuring a Blazor browser-based application.

 $Name space: {\bf Microsoft. AspNetCore. Blazor. Hosting} \\ Assembly: {\bf Microsoft. AspNetCore. Blazor. Browser. dll} \\$

Syntax

public interface IWebAssemblyHostBuilder

Properties

Properties

A central location for sharing state between components during the host building process.

Declaration

IDictionary<object, object> Properties { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Collections.Generic.IDictionary < System.Object, System.Object >	

Methods

Build()

Run the given actions to initialize the host. This can only be called once.

Declaration

IWebAssemblyHost Build()

Returns

ТҮРЕ		DESCRIPTION
IWebAssembl	yHost	An initialized IWebAssemblyHost

ConfigureServices(Action < WebAssemblyHostBuilderContext, IServiceCollection >)

Adds services to the container. This can be called multiple times and the results will be additive.

Declaration

IWebAssemblyHostBuilder ConfigureServices(Action<WebAssemblyHostBuilderContext, IServiceCollection>
configureDelegate)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Action < WebAssemblyHostBuilderContext, Microsoft.Extensions.DependencyInjection.IServiceCollection >	configureDelegate	The delegate for configuring the Microsoft.Extensions.DependencyInjection.IServiceCollection that will be used to construct the System.IServiceProvider.

Returns

ТҮРЕ	DESCRIPTION
IWebAssemblyHostBuilder	The same instance of the IWebAssemblyHostBuilder for chaining.

Extension Methods

WebAssemblyHostBuilderExtensions.ConfigureServices(IWebAssemblyHostBuilder, Action < IServiceCollection >)
WebAssemblyHostBuilderExtensions.UseBlazorStartup(IWebAssemblyHostBuilder, Type)
WebAssemblyHostBuilderExtensions.UseBlazorStartup < TStartup > (IWebAssemblyHostBuilder)

Class WebAssemblyHostBuilderContext

Context containing the common services on the IWebAssemblyHost. Some properties may be null until set by the IWebAssemblyHost.

Inheritance

System.Object

Web Assembly Host Builder Context

 $Name space: {\bf Microsoft. AspNetCore. Blazor. Hosting} \\ Assembly: {\bf Microsoft. AspNetCore. Blazor. Browser. dll} \\$

Syntax

public sealed class WebAssemblyHostBuilderContext : Object

Constructors

 $We b Assembly Host Builder Context (IDictionary < Object,\ Object>)$

Creates a new WebAssemblyHostBuilderContext.

Declaration

public WebAssemblyHostBuilderContext(IDictionary<object, object> properties)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Collections.Generic.IDictionary < System.Object, System.Object >	properties	The property collection.

Properties

Properties

A central location for sharing state between components during the host building process.

Declaration

public IDictionary<object, object> Properties { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Collections.Generic.IDictionary < System.Object, System.Object >	

Class WebAssemblyHostBuilderExtensions

Provides Blazor-specific support for IWebAssemblyHost.

Inheritance

System.Object

WebAssemblyHostBuilderExtensions

Namespace: Microsoft.AspNetCore.Blazor.Hosting
Assembly: Microsoft.AspNetCore.Blazor.Browser.dll

Syntax

public static class WebAssemblyHostBuilderExtensions : Object

Methods

ConfigureServices(IWebAssemblyHostBuilder, Action<IServiceCollection>)

Adds services to the container. This can be called multiple times and the results will be additive.

Declaration

public static IWebAssemblyHostBuilder ConfigureServices(this IWebAssemblyHostBuilder hostBuilder, Action<IServiceCollection> configureDelegate)

Parameters

ТҮРЕ	NAME	DESCRIPTION
IWebAssemblyHostBuilder	hostBuilder	The IWebAssemblyHostBuilder to configure.
System.Action < Microsoft.Extensions.DependencyInjection.IServiceCollection >	configure Delegate	

Returns

ТҮРЕ	DESCRIPTION
IWeb Assembly Host Builder	The same instance of the IWebAssemblyHostBuilder for chaining.

UseBlazorStartup(IWebAssemblyHostBuilder, Type)

Configures the IWebAssemblyHostBuilder to use the provided startup class.

Declaration

public static IWebAssemblyHostBuilder UseBlazorStartup(this IWebAssemblyHostBuilder builder, Type startupType)

ТҮРЕ	NAME	DESCRIPTION
IWebAssemblyHostBuilder	builder	The IWebAssemblyHostBuilder.

ТУРЕ	NAME	DESCRIPTION
System.Type	startupType	A type that configures a Blazor application.

Returns

ТҮРЕ	DESCRIPTION
IWebAssemblyHostBuilder	The IWebAssemblyHostBuilder.

UseBlazorStartup < TStartup > (IWebAssemblyHostBuilder)

Configures the IWebAssemblyHostBuilder to use the provided startup class.

Declaration

public static IWebAssemblyHostBuilder UseBlazorStartup<TStartup>(this IWebAssemblyHostBuilder builder)

Parameters

ТҮРЕ	NAME	DESCRIPTION
IWebAssemblyHostBuilder	builder	The IWebAssemblyHostBuilder.

Returns

ТҮРЕ	DESCRIPTION
IWebAssemblyHostBuilder	The IWebAssemblyHostBuilder.

Type Parameters

NAME	DESCRIPTION
TStartup	A type that configures a Blazor application.

Class WebAssemblyHostExtensions

Extension methods for IWebAssemblyHost.

Inheritance

System.Object

WebAssemblyHostExtensions

Namespace: Microsoft.AspNetCore.Blazor.Hosting
Assembly: Microsoft.AspNetCore.Blazor.Browser.dll

Syntax

public static class WebAssemblyHostExtensions : Object

Methods

Run(IWebAssemblyHost)

Runs the application.

Declaration

public static void Run(this IWebAssemblyHost host)

Parameters

ТҮРЕ	NAME	DESCRIPTION
IWebAssemblyHost	host	The IWebAssemblyHost to run.

Remarks

Currently, Blazor applications running in the browser don't have a lifecycle - the application does not get a chance to gracefully shut down. For now, Run(IWebAssemblyHost) simply starts the host and allows execution to continue.

$Name space\ Microsoft. AspNet Core. Blazor. Layouts$

Classes

Blazor Layout Component

Optional base class for components that represent a layout. Alternatively, Blazor components may implement IComponent directly and declare their own parameter named Body.

LayoutAttribute

Indicates that the associated component type uses a specified layout.

LayoutDisplay

Displays the specified page component, rendering it inside its layout and any further nested layouts.

Class BlazorLayoutComponent

Optional base class for components that represent a layout. Alternatively, Blazor components may implement IComponent directly and declare their own parameter named Body.

Inheritance

System.Object

BlazorComponent

BlazorLayoutComponent

Implements

IComponent

IHandleEvent

IHandleAfterRender

Inherited Members

Blazor Component. Build Render Tree Method Name

BlazorComponent.BuildRenderTree(RenderTreeBuilder)

BlazorComponent.OnInit()

BlazorComponent.OnInitAsync()

BlazorComponent.OnParametersSet()

BlazorComponent.OnParametersSetAsync()

BlazorComponent.StateHasChanged()

BlazorComponent.ShouldRender()

BlazorComponent.OnAfterRender()

BlazorComponent.OnAfterRenderAsync()

BlazorComponent.IComponent.Init(RenderHandle)

BlazorComponent.SetParameters(ParameterCollection)

BlazorComponent.IHandleEvent.HandleEvent(EventHandlerInvoker, UIEventArgs)

Blazor Component. I Handle After Render. On After Render()

Name space: Microsoft. AspNet Core. Blazor. Layouts

Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public abstract class BlazorLayoutComponent : BlazorComponent, IComponent, IHandleEvent, IHandleAfterRender

Constructors

BlazorLayoutComponent()

Declaration

protected BlazorLayoutComponent()

Properties

Body

Gets the content to be rendered inside the layout.

Declaration

[Parameter]
protected RenderFragment Body { get; }

Property Value

ТҮРЕ	DESCRIPTION
RenderFragment	

Implements

IComponent IHandleEvent

IHandleAfterRender

Class LayoutAttribute

Indicates that the associated component type uses a specified layout.

Inheritance

System.Object

LayoutAttribute

 $Name space: {\bf Microsoft.} Asp {\bf NetCore.} Blazor. Layouts$

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public class LayoutAttribute : Attribute

Constructors

LayoutAttribute(Type)

Constructs an instance of LayoutAttribute.

Declaration

public LayoutAttribute(Type layoutType)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Type	layoutType	The type of the layout.

Properties

LayoutType

The type of the layout. The type myst implement IComponent and must accept a parameter with the name 'Body'.

Declaration

public Type LayoutType { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Type	

Class LayoutDisplay

Displays the specified page component, rendering it inside its layout and any further nested layouts.

Inheritance

System.Object

LayoutDisplay

Implements

IComponent

Namespace: Microsoft.AspNetCore.Blazor.Layouts
Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public class LayoutDisplay : Object, IComponent

Constructors

LayoutDisplay()

Declaration

public LayoutDisplay()

Methods

Init(RenderHandle)

Initializes the component.

Declaration

public void Init(RenderHandle renderHandle)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderHandle	renderHandle	A RenderHandle that allows the component to be rendered.

SetParameters(ParameterCollection)

Sets parameters supplied by the component's parent in the render tree.

Declaration

public void SetParameters(ParameterCollection parameters)

Parameters

ТУРЕ	NAME	DESCRIPTION
ParameterCollection	parameters	The parameters.

Implements

IComponent

Namespace Microsoft.AspNetCore.Blazor.Rendering

Classes

RenderBatch

Describes a set of UI changes.

Renderer

Provides mechanisms for rendering hierarchies of IComponent instances, dispatching events to them, and notifying when the user interface is being updated.

Renderer Registry

Framework infrastructure, not intended to be used by application code.

Class RenderBatch

Describes a set of UI changes.

Inheritance

System.Object

RenderBatch

 $Name space: {\bf Microsoft.} Asp {\bf NetCore.} Blazor. Rendering$

Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public sealed class RenderBatch : ValueType

Properties

${\sf DisposedComponentIDs}$

Gets the IDs of the components that were disposed.

Declaration

public ArrayRange<int> DisposedComponentIDs { get; }

Property Value

ТҮРЕ	DESCRIPTION
ArrayRange < System.Int32 >	

Disposed Event Handler IDs

Gets the IDs of the event handlers that were disposed.

Declaration

public ArrayRange<int> DisposedEventHandlerIDs { get; }

Property Value

ТҮРЕ	DESCRIPTION
ArrayRange < System.Int32 >	

ReferenceFrames

Gets render frames that may be referenced by entries in UpdatedComponents. For example, edit entries of type PrependFrame will point to an entry in this array to specify the subtree to be prepended.

Declaration

public ArrayRange<RenderTreeFrame> ReferenceFrames { get; }

Property Value

ТҮРЕ	DESCRIPTION
ArrayRange < RenderTreeFrame >	

UpdatedComponents

Gets the changes to components that were added or updated.

Declaration

public ArrayRange<RenderTreeDiff> UpdatedComponents { get; }

Property Value

ТҮРЕ	DESCRIPTION
ArrayRange < RenderTreeDiff >	

Class Renderer

Provides mechanisms for rendering hierarchies of IComponent instances, dispatching events to them, and notifying when the user interface is being updated.

Inheritance

System.Object

Renderer

BrowserRenderer

Namespace: Microsoft.AspNetCore.Blazor.Rendering

Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public abstract class Renderer : Object

Constructors

Renderer(IServiceProvider)

Constructs an instance of Renderer.

Declaration

public Renderer(IServiceProvider serviceProvider)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IServiceProvider	serviceProvider	The System.IServiceProvider to be used when initialising components.

Methods

AssignComponentId(IComponent)

Associates the IComponent with the Renderer, assigning an identifier that is unique within the scope of the Renderer.

Declaration

protected int AssignComponentId(IComponent component)

Parameters

ТҮРЕ	NAME	DESCRIPTION
IComponent	component	The component.

Returns

ТҮРЕ	DESCRIPTION
System.Int32	The component's assigned identifier.

DispatchEvent(Int32, Int32, UIEventArgs)

Notifies the specified component that an event has occurred.

public void DispatchEvent(int componentId, int eventHandlerId, UIEventArgs eventArgs)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	componentId	The unique identifier for the component within the scope of this Renderer.
System.Int32	eventHandlerId	The AttributeEventHandlerId value from the original event attribute.
UIEventArgs	eventArgs	Arguments to be passed to the event handler.

InstantiateComponent(Type)

Constructs a new component of the specified type.

Declaration

protected IComponent InstantiateComponent(Type componentType)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Type	componentType	The type of the component to instantiate.

Returns

ТҮРЕ	DESCRIPTION
IComponent	The component instance.

UpdateDisplay(RenderBatch)

Updates the visible UI.

Declaration

protected abstract void UpdateDisplay(in RenderBatch renderBatch)

ТУРЕ	NAME	DESCRIPTION
RenderBatch	renderBatch	The changes to the UI since the previous call.

Class RendererRegistry

Framework infrastructure, not intended to be used by application code.

Inheritance

System.Object

RendererRegistry

 $Name space: {\bf Microsoft.} Asp {\bf NetCore.} Blazor. Rendering \\ Assembly: {\bf Microsoft.} Asp {\bf NetCore.} Blazor. Browser. d II$

Syntax

public class RendererRegistry : Object

Constructors

RendererRegistry()

Declaration

public RendererRegistry()

Properties

Current

Framework infrastructure, not intended to be used by application code.

Declaration

public static RendererRegistry Current { get; }

Property Value

ТҮРЕ	DESCRIPTION
RendererRegistry	

Methods

Add(Renderer)

Framework infrastructure, not intended by used by application code.

Declaration

public int Add(Renderer renderer)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Renderer	renderer	

Returns

ТҮРЕ	DESCRIPTION
System.Int32	

Find(Int32)

Framework infrastructure, not intended by used by application code.

Declaration

public Renderer Find(int browserRendererId)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	browserRendererId	

Returns

ТҮРЕ	DESCRIPTION
Renderer	

Set Current Renderer Registry (Renderer Registry)

Framework infrastructure, not intended by used by application code.

Declaration

public static void SetCurrentRendererRegistry(RendererRegistry registry)

Parameters

ТУРЕ	NAME	DESCRIPTION
RendererRegistry	registry	

TryRemove(Int32)

Framework infrastructure, not intended by used by application code.

Declaration

public bool TryRemove(int browserRendererId)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	browserRendererId	

Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

$Name space\ Microsoft. AspNetCore. Blazor. Render Tree$

Classes

ArrayRange<T>

Represents a range of elements in an array that are in use.

RenderTreeBuilder

Provides methods for building a collection of RenderTreeFrame entries.

RenderTreeDiff

Describes changes to a component's render tree between successive renders.

RenderTreeEdit

Represents a single edit operation on a component's render tree.

Render Tree Edit Type

Describes the type of a render tree edit operation.

RenderTreeFrame

Represents an entry in a tree of user interface (UI) items.

Render Tree Frame Type

Describes the type of a RenderTreeFrame.

Class ArrayRange<T>

Represents a range of elements in an array that are in use.

Inheritance

System.Object

ArrayRange<T>

Implements

System. Collections. I Enumerable

System.Collections.Generic.IEnumerable<T>

Name space: Microsoft. AspNetCore. Blazor. Render Tree

 $Assembly: \ Microsoft. AspNetCore. Blazor. dll$

Syntax

public sealed class ArrayRange<T> : ValueType, IEnumerable, IEnumerable<T>

Type Parameters

NAME	DESCRIPTION	
Т	The array item type.	

Constructors

ArrayRange(T[], Int32)

Constructs an instance of ArrayRange<T>.

Declaration

public ArrayRange(T[] array, int count)

Parameters

ТҮРЕ	NAME	DESCRIPTION
тп	array	The array.
System.Int32	count	The number of items in the array that are in use.

Fields

Array

Gets the underlying array instance.

Declaration

public readonly T[] Array

ТҮРЕ	DESCRIPTION
ТП	

Count

Gets the number of items in the array that are considered to be in use.

Declaration

oublic readonly int Count			
---------------------------	--	--	--

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

Implements

System.Collections.IEnumerable
System.Collections.Generic.IEnumerable<>

Class RenderTreeBuilder

Provides methods for building a collection of RenderTreeFrame entries.

Inheritance

System.Object

RenderTreeBuilder

 $Name space: {\bf Microsoft.} AspNetCore.Blazor.RenderTree$

Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public class RenderTreeBuilder : Object

Constructors

RenderTreeBuilder(Renderer)

Constructs an instance of RenderTreeBuilder.

Declaration

public RenderTreeBuilder(Renderer renderer)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Renderer	renderer	The associated Renderer.

Fields

ChildContent

The reserved parameter name used for supplying child content.

Declaration

public const string ChildContent = "ChildContent"

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Methods

AddAttribute(Int32, RenderTreeFrame)

Appends a frame representing an attribute.

The attribute is associated with the most recently added element.

Declaration

public void AddAttribute(int sequence, in RenderTreeFrame frame)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
RenderTreeFrame	frame	A RenderTreeFrame holding the name and value of the attribute.

AddAttribute(Int32, String, Action)

Appends a frame representing an System. Action-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public void AddAttribute(int sequence, string name, Action value)

Parameters

ТҮРЕ	NAME	DESCRIPTION	
System.Int32	sequence	An integer that represents the position of the instruction in the source code.	
System.String	name	The name of the attribute.	
System.Action	value	The value of the attribute.	

AddAttribute(Int32, String, Action < UIEventArgs >)

Appends a frame representing an System.Action <>-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public void AddAttribute(int sequence, string name, Action<UIEventArgs> value)

Parameters

_	- diameters				
	ТҮРЕ	NAME	DESCRIPTION		
	System.Int32	sequence	An integer that represents the position of the instruction in the source code.		
	System.String	name	The name of the attribute.		
	System.Action < UIEventArgs >	value	The value of the attribute.		

AddAttribute(Int32, String, Boolean)

Appends a frame representing a bool-valued attribute.

The attribute is associated with the most recently added element. If the value is false and the current element is not a component, the frame will be omitted.

Declaration

public void AddAttribute(int sequence, string name, bool value)

Parameters

ТҮРЕ	NAME	DESCRIPTION	
System.Int32	sequence	An integer that represents the position of the instruction in the source code.	
System.String	name	The name of the attribute.	
System.Boolean	value	The value of the attribute.	

AddAttribute(Int32, String, Func<UIEventArgs, Task>)

Appends a frame representing a System.Func<, >-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public void AddAttribute(int sequence, string name, Func<UIEventArgs, Task> value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Func <uieventargs, system.threading.tasks.task=""></uieventargs,>	value	The value of the attribute.

AddAttribute(Int32, String, Func<Task>)

Appends a frame representing a System.Func<>-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public void AddAttribute(int sequence, string name, Func<Task> value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Func < System.Threading.Tasks.Task >	value	The value of the attribute.

AddAttribute(Int32, String, MulticastDelegate)

Appends a frame representing a delegate-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public void AddAttribute(int sequence, string name, MulticastDelegate value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System. Multicast Delegate	value	The value of the attribute.

Remarks

This method is provided for infrastructure purposes, and is used to be UIEventArgsRenderTreeBuilderExtensions to provide support for delegates of specific types. For a good programming experience when using a custom delegate type, define an extension method similar to AddAttribute(RenderTreeBuilder, Int32, String, Action < UIChangeEventArgs >) that calls this method.

AddAttribute(Int32, String, Object)

Appends a frame representing a string-valued attribute. The attribute is associated with the most recently added element. If the value is null, or the System.Boolean value false and the current element is not a component, the frame will be omitted.

Declaration

public void AddAttribute(int sequence, string name, object value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.Object	value	The value of the attribute.

AddAttribute(Int32, String, String)

Appends a frame representing a string-valued attribute.

The attribute is associated with the most recently added element. If the value is null and the current element is not a component, the frame will be omitted.

Declaration

public void AddAttribute(int sequence, string name, string value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	name	The name of the attribute.
System.String	value	The value of the attribute.

AddComponentReferenceCapture(Int32, Action < Object >)

Appends a frame representing an instruction to capture a reference to the parent component.

Declaration

public void AddComponentReferenceCapture(int sequence, Action<object> componentReferenceCaptureAction)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.Action < System.Object >	componentReferenceCaptureAction	An action to be invoked whenever the reference value changes.

AddContent(Int32, MarkupString)

Appends a frame representing markup content.

Declaration

public void AddContent(int sequence, MarkupString markupContent)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
MarkupString	markupContent	Content for the new markup frame.

AddContent(Int32, RenderFragment)

Appends frames representing an arbitrary fragment of content.

Declaration

public void AddContent(int sequence, RenderFragment fragment)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
RenderFragment	fragment	Content to append.

AddContent(Int32, Object)

Appends a frame representing text content.

Declaration

public void AddContent(int sequence, object textContent)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.Object	textContent	Content for the new text frame.

AddContent(Int32, String)

Appends a frame representing text content.

Declaration

public void AddContent(int sequence, string textContent)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	textContent	Content for the new text frame.

AddElementReferenceCapture(Int32, Action < ElementRef >)

Appends a frame representing an instruction to capture a reference to the parent element.

Declaration

public void AddElementReferenceCapture(int sequence, Action<ElementReferenceCaptureAction)</pre>

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.Action < ElementRef >	elementReferenceCaptureAction	An action to be invoked whenever the reference value changes.

AddMarkupContent(Int32, String)

Appends a frame representing markup content.

Declaration

public void AddMarkupContent(int sequence, string markupContent)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	markupContent	Content for the new markup frame.

Clear()

Clears the builder.

Declaration

public void Clear()

CloseComponent()

Marks a previously appended component frame as closed. Calls to this method must be balanced with calls to

OpenComponent<TComponent>(Int32).

Declaration

public void CloseComponent()

CloseElement()

Marks a previously appended element frame as closed. Calls to this method must be balanced with calls to OpenElement(Int32, String).

Declaration

public void CloseElement()

GetFrames()

Returns the RenderTreeFrame values that have been appended.

Declaration

public ArrayRange<RenderTreeFrame> GetFrames()

Returns

ТҮРЕ	DESCRIPTION
ArrayRange < RenderTreeFrame >	An array range of RenderTreeFrame values.

OpenComponent(Int32, Type)

Appends a frame representing a child component.

Declaration

public void OpenComponent(int sequence, Type componentType)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.Type	componentType	The type of the child component.

OpenComponent<TComponent>(Int32)

Appends a frame representing a child component.

Declaration

public void OpenComponent<TComponent>(int sequence)
 where TComponent : IComponent

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.

Type Parameters

NAME	DESCRIPTION
TComponent	The type of the child component.

OpenElement(Int32, String)

Appends a frame representing an element, i.e., a container for other frames. In order for the RenderTreeBuilder state to be valid, you must also call CloseElement() immediately after appending the new element's child frames.

Declaration

public void OpenElement(int sequence, string elementName)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	sequence	An integer that represents the position of the instruction in the source code.
System.String	elementName	A value representing the type of the element.

Extension Methods

UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Action < UIChangeEventArgs >) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Func<UIChangeEventArgs, Task>) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Action < UIDragEventArgs >) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Func<UIDragEventArgs, Task>) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Action < UIClipboardEventArgs >) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Func<UIClipboardEventArgs, Task>) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Action < UIErrorEventArgs >) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Func<UIErrorEventArgs, Task>) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Action < UIFocusEventArgs >) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Func<UIFocusEventArgs, Task>) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Action < UIKeyboardEventArgs >) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Func<UIKeyboardEventArgs, Task>) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Action < UIMouseEventArgs >) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Func<UIMouseEventArgs, Task>) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Action < UIPointerEventArgs >) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Func<UIPointerEventArgs, Task>) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Action < UIProgressEventArgs >) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Func<UIProgressEventArgs, Task>) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Action < UITouchEventArgs >) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Func<UITouchEventArgs, Task>) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Action < UIWheelEventArgs >) UIEventArgsRenderTreeBuilderExtensions.AddAttribute(RenderTreeBuilder, Int32, String, Func<UIWheelEventArgs, Task>)

Class RenderTreeDiff

Describes changes to a component's render tree between successive renders.

Inheritance

System.Object

RenderTreeDiff

Name space: Microsoft. AspNetCore. Blazor. Render Tree

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public sealed class RenderTreeDiff : ValueType

Fields

ComponentId

Gets the ID of the component.

Declaration

public readonly int ComponentId

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

Edits

Gets the changes to the render tree since a previous state.

Declaration

public readonly ArraySegment<RenderTreeEdit> Edits

ТҮРЕ	DESCRIPTION
System.ArraySegment < RenderTreeEdit >	

Class RenderTreeEdit

Represents a single edit operation on a component's render tree.

Inheritance

System.Object

RenderTreeEdit

Name space: Microsoft. AspNetCore. Blazor. Render Tree

Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public sealed class RenderTreeEdit : ValueType

Fields

ReferenceFrameIndex

Gets the index of related data in an associated render frames array. For example, if the Type value is PrependFrame, gets the index of the new frame data in an associated render tree.

Declaration

public readonly int ReferenceFrameIndex

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

RemovedAttributeName

If the Type value is RemoveAttribute, gets the name of the attribute that is being removed.

Declaration

public readonly string RemovedAttributeName

Field Value

ТҮРЕ	DESCRIPTION
System.String	

SiblingIndex

Gets the index of the sibling frame that the edit relates to.

Declaration

public readonly int SiblingIndex

ТҮРЕ	DESCRIPTION
System.Int32	

Gets the type of the edit operation.

Declaration

public readonly RenderTreeEditType Type	
---	--

ТҮРЕ	DESCRIPTION
RenderTreeEditType	

Class RenderTreeEditType

Describes the type of a render tree edit operation.

Inheritance

System.Object

RenderTreeEditType

 $Name space: {\bf Microsoft.} AspNetCore.Blazor.RenderTree$

Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public sealed class RenderTreeEditType : Enum

Fields

PrependFrame

Indicates that a new frame should be inserted before the specified tree frame.

Declaration

public const RenderTreeEditType PrependFrame

Field Value

ТҮРЕ	DESCRIPTION
RenderTreeEditType	

RemoveAttribute

Indicates that a named attribute should be removed from the specified frame.

Declaration

public const RenderTreeEditType RemoveAttribute

Field Value

ТҮРЕ	DESCRIPTION
RenderTreeEditType	

RemoveFrame

Indicates that the specified tree frame should be removed.

Declaration

public const RenderTreeEditType RemoveFrame

Field Value

7	ГҮРЕ	DESCRIPTION
F	RenderTreeEditType	

SetAttribute

Indicates that an attribute value should be applied to the specified frame. This may be a change to an existing attribute, or the

addition of a new attribute.

Declaration

nuhlic	conct	RenderTreeEditType	Co+A++nihu+o
public	COIISC	Kender II eecuttiype	SetAtti Ibute

Field Value

ТҮРЕ	DESCRIPTION
RenderTreeEditType	

StepIn

Indicates that the edit position should move inside the specified frame.

Declaration

public const RenderTreeEditType StepIn

Field Value

ТҮРЕ	DESCRIPTION
RenderTreeEditType	

StepOut

Indicates that there are no further edit operations on the current frame, and the edit position should move back to the parent frame.

Declaration

public const RenderTreeEditType StepOut

Field Value

ТҮРЕ	DESCRIPTION
RenderTreeEditType	

Update Markup

Indicates that the markup content of the specified frame (which must be a markup frame) should be updated.

Declaration

public const RenderTreeEditType UpdateMarkup

Field Value

ТҮРЕ	DESCRIPTION
RenderTreeEditType	

UpdateText

Indicates that the text content of the specified frame (which must be a text frame) should be updated.

Declaration

рι	ublic const RenderTreeEditType UpdateText	
Fie	ld Value	
1	ГУРЕ	DESCRIPTION

value

Declaration

Render Tree Edit Type

public int value__

ТҮРЕ	DESCRIPTION
System.Int32	

Class RenderTreeFrame

Represents an entry in a tree of user interface (UI) items.

Inheritance

System.Object

RenderTreeFrame

Namespace: Microsoft.AspNetCore.Blazor.RenderTree

Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public sealed class RenderTreeFrame : ValueType

Fields

AttributeEventHandlerId

If the FrameType property equals Attribute gets the ID of the corresponding event handler, if any.

Declaration

public readonly int AttributeEventHandlerId

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

AttributeName

If the FrameType property equals Attribute, gets the attribute name. Otherwise, the value is undefined.

Declaration

public readonly string AttributeName

Field Value

ТҮРЕ	DESCRIPTION
System.String	

AttributeValue

If the FrameType property equals Attribute, gets the attribute value. Otherwise, the value is undefined.

Declaration

public readonly object AttributeValue

Field Value

ТҮРЕ	DESCRIPTION
System.Object	

Component

If the FrameType property equals Component, gets the child component instance. Otherwise, the value is undefined.

Declaration

public readonly IComponent Component

Field Value

ТУРЕ	DESCRIPTION
IComponent	

ComponentId

If the FrameType property equals Component, gets the child component instance identifier.

Declaration

public readonly int ComponentId

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

${\tt ComponentReferenceCaptureAction}$

If the FrameType property equals ComponentReferenceCapture, gets the action that writes the reference to its target. Otherwise, the value is undefined.

Declaration

public readonly Action<object> ComponentReferenceCaptureAction

Field Value

ТҮРЕ	DESCRIPTION
System.Action < System.Object >	

Component Reference Capture Parent Frame Index

If the FrameType property equals ComponentReferenceCapture, gets the index of the parent frame representing the component being captured. Otherwise, the value is undefined. WARNING: This index can only be used in the context of the frame's original render tree. If the frame is copied elsewhere, such as to the ReferenceFrames buffer of a RenderTreeDiff, then the index will not relate to entries in that other buffer. Currently there's no scenario where this matters, but if there was, we could change all of the subtree initialization logic in RenderTreeDiffBuilder to walk the frames hierarchically, then it would know the parent index at the point where it wants to initialize the ComponentReferenceCapture frame.

Declaration

public readonly int ComponentReferenceCaptureParentFrameIndex

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

ComponentSubtreeLength

If the FrameType property equals Component gets the number of frames in the subtree for which this frame is the root. The value is zero if the frame has not yet been closed.

Declaration

public readonly int ComponentSubtreeLength

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

ComponentType

If the FrameType property equals Component, gets the type of the child component.

Declaration

public readonly Type ComponentType

Field Value

ТУРЕ	DESCRIPTION
System.Type	

ElementName

If the FrameType property equals Element, gets a name representing the type of the element. Otherwise, the value is undefined.

Declaration

public readonly string ElementName

Field Value

ТҮРЕ	DESCRIPTION
System.String	

ElementReferenceCaptureAction

If the FrameType property equals ElementReferenceCapture, gets the action that writes the reference to its target. Otherwise, the value is undefined.

Declaration

public readonly Action<ElementRef> ElementReferenceCaptureAction

Field Value

ТҮРЕ	DESCRIPTION
System.Action < ElementRef >	

Element Reference Capture Id

If the FrameType property equals ElementReferenceCapture, gets the ID of the reference capture. Otherwise, the value is undefined.

Declaration

public readonly string ElementReferenceCaptureId

Field Value

ТУРЕ	DESCRIPTION
System.String	

ElementSubtreeLength

If the FrameType property equals Element gets the number of frames in the subtree for which this frame is the root. The value is zero if the frame has not yet been closed.

Declaration

public readonly int ElementSubtreeLength

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

FrameType

Describes the type of this frame.

Declaration

public readonly RenderTreeFrameType FrameType

Field Value

ТҮРЕ	DESCRIPTION
RenderTreeFrameType	

MarkupContent

If the FrameType property equals Markup, gets the content of the markup frame. Otherwise, the value is undefined.

Declaration

public readonly string MarkupContent

Field Value

ТҮРЕ	DESCRIPTION
System.String	

RegionSubtreeLength

If the FrameType property equals Region gets the number of frames in the subtree for which this frame is the root. The value is zero if the frame has not yet been closed.

Declaration

public readonly int RegionSubtreeLength

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

Sequence

Gets the sequence number of the frame. Sequence numbers indicate the relative source positions of the instructions that inserted the frames. Sequence numbers are only comparable within the same sequence (typically, the same source method).

Declaration

public readonly int Sequence

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

TextContent

If the FrameType property equals Text, gets the content of the text frame. Otherwise, the value is undefined.

Declaration

public readonly string TextContent

Field Value

ТҮРЕ	DESCRIPTION
System.String	

Methods

ToString()

Declaration

public override string ToString()

Returns

ТҮРЕ	DESCRIPTION
System.String	

Class RenderTreeFrameType

Describes the type of a RenderTreeFrame.

Inheritance

System.Object

RenderTreeFrameType

Name space: Microsoft. AspNetCore. Blazor. Render Tree

Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public sealed class RenderTreeFrameType : Enum

Fields

Attribute

Represents a key-value pair associated with another RenderTreeFrame.

Declaration

public const RenderTreeFrameType Attribute

Field Value

ТҮРЕ	DESCRIPTION
RenderTreeFrameType	

Component

Represents a child component.

Declaration

public const RenderTreeFrameType Component

Field Value

ТҮРЕ	DESCRIPTION
RenderTreeFrameType	

${\sf Component Reference Capture}$

Represents an instruction to capture or update a reference to the parent component.

Declaration

public const RenderTreeFrameType ComponentReferenceCapture

Field Value

ТҮРЕ	DESCRIPTION
RenderTreeFrameType	

Element

Represents a container for other frames.

Declaration

public const RenderTreeFrameType Element

Field Value

ТҮРЕ	DESCRIPTION
RenderTreeFrameType	

ElementReferenceCapture

Represents an instruction to capture or update a reference to the parent element.

Declaration

public const RenderTreeFrameType ElementReferenceCapture

Field Value

ТҮРЕ	DESCRIPTION
RenderTreeFrameType	

Markup

Represents a block of markup content.

Declaration

public const RenderTreeFrameType Markup

Field Value

ТҮРЕ	DESCRIPTION
RenderTreeFrameType	

Region

Defines the boundary around range of sibling frames that should be treated as an unsplittable group for the purposes of diffing. This is typically used when appending a tree fragment generated by external code, because the sequence numbers in that tree fragment are not comparable to sequence numbers outside it.

Declaration

public const RenderTreeFrameType Region

Field Value

ТҮРЕ	DESCRIPTION
RenderTreeFrameType	

Text

Represents text content.

Declaration

public const RenderTreeFrameType Text

Field Value

ТҮРЕ	DESCRIPTION
RenderTreeFrameType	

value__

Declaration

public int value__

ТҮРЕ	DESCRIPTION
System.Int32	

Namespace Microsoft.AspNetCore.Blazor.Routing

Classes

NavLink

A component that renders an anchor tag, automatically toggling its 'active' class based on whether its 'href' matches the current URI.

NavLinkMatch

Modifies the URL matching behavior for a NavLink.

Router

A component that displays whichever other component corresponds to the current navigation location.

Class NavLink

A component that renders an anchor tag, automatically toggling its 'active' class based on whether its 'href' matches the current URI.

Inheritance

System.Object

NavLink

Implements

IComponent

System.IDisposable

 $Name space: {\bf Microsoft.} Asp {\bf NetCore.Blazor.Routing}$

Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public class NavLink : Object, IComponent, IDisposable

Constructors

NavLink()

Declaration

public NavLink()

Methods

Dispose()

Declaration

public void Dispose()

Init(RenderHandle)

Initializes the component.

Declaration

public void Init(RenderHandle renderHandle)

Parameters

ТУРЕ	NAME	DESCRIPTION
RenderHandle	render Handle	A RenderHandle that allows the component to be rendered.

SetParameters(ParameterCollection)

Sets parameters supplied by the component's parent in the render tree.

Declaration

public void SetParameters(ParameterCollection parameters)

Parameters

ТҮРЕ	NAME	DESCRIPTION
ParameterCollection	parameters	The parameters.

Implements

IComponent

System.IDisposable

Class NavLinkMatch

Modifies the URL matching behavior for a NavLink.

Inheritance

System.Object

NavLinkMatch

 $Name space: {\bf Microsoft.} Asp {\bf NetCore.} Blazor. Routing$

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public sealed class NavLinkMatch : Enum

Fields

Αll

Specifies that the NavLink should be active when it matches the entire current URL.

Declaration

public const NavLinkMatch All

Field Value

ТҮРЕ	DESCRIPTION
NavLinkMatch	

Prefix

Specifies that the NavLink should be active when it matches any prefix of the current URL.

Declaration

public const NavLinkMatch Prefix

Field Value

ТҮРЕ	DESCRIPTION
NavLinkMatch	

value__

Declaration

public int value__

ТҮРЕ	DESCRIPTION
System.Int32	

Class Router

A component that displays whichever other component corresponds to the current navigation location.

Inheritance

System.Object

Router

Implements

IComponent

System.IDisposable

Namespace: Microsoft.AspNetCore.Blazor.Routing

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public class Router : Object, IComponent, IDisposable

Constructors

Router()

Declaration

public Router()

Methods

Dispose()

Declaration

public void Dispose()

Init(RenderHandle)

Initializes the component.

Declaration

public void Init(RenderHandle renderHandle)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderHandle	render Handle	A RenderHandle that allows the component to be rendered.

Render(RenderTreeBuilder, Type, IDictionary<String, Object>)

Declaration

protected virtual void Render(RenderTreeBuilder builder, Type handler, IDictionary<string, object> parameters)

Parameters

ТҮРЕ	NAME	DESCRIPTION
RenderTreeBuilder	builder	

ТҮРЕ	NAME	DESCRIPTION
System.Type	handler	
System.Collections.Generic.IDictionary < System.String, System.Object >	parameters	

SetParameters(ParameterCollection)

Sets parameters supplied by the component's parent in the render tree.

Declaration

public void SetParameters(ParameterCollection parameters)

Parameters

ТҮРЕ	NAME	DESCRIPTION
ParameterCollection	parameters	The parameters.

Implements

IComponent

System.IDisposable

$Name space\ Microsoft. AspNet Core. Blazor. Server$

Classes

Wasm Media Type Names

Contains values for WASM-related media types.

Was m Media Type Names. Application

Contains values for WASM-related media types within the "application." namespace

Class WasmMediaTypeNames

Contains values for WASM-related media types.

Inheritance

System.Object

Was m Media Type Names

 $Name space: {\bf Microsoft.} Asp {\bf NetCore.Blazor.Server} \\ Assembly: {\bf Microsoft.} Asp {\bf NetCore.Blazor.Server.dll} \\$

Syntax

public static class WasmMediaTypeNames : Object

Class WasmMediaTypeNames.Application

Contains values for WASM-related media types within the "application." namespace

Inheritance

System.Object

Wasm Media Type Names. Application

 $Name space: {\bf Microsoft.} Asp {\bf NetCore.Blazor.Server} \\ Assembly: {\bf Microsoft.} Asp {\bf NetCore.Blazor.Server.dll} \\$

Syntax

public static class Application : Object

Fields

Wasm

The standard media type name for WebAssembly binary files.

Declaration

public const string Wasm = "application/wasm"

ТҮРЕ	DESCRIPTION
System.String	

$Name space\ Microsoft. AspNetCore. Blazor. Server. Circuits$

Classes

Circuit

Represents an active connection between a Blazor server and a client.

RemoteUriHelper

A Server-Side Blazor implemenation of IUriHelper.

Class Circuit

Represents an active connection between a Blazor server and a client.

Inheritance

System.Object

Circuit

Namespace: Microsoft.AspNetCore.Blazor.Server.Circuits

 $Assembly: \ Microsoft. AspNetCore. Blazor. Server. dll$

Syntax

```
public class Circuit : Object
```

Properties

Current

Gets the current Circuit.

Declaration

```
public static Circuit Current { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
Circuit	

JSRuntime

Gets the **IJSRuntime** associated with this circuit.

Declaration

```
public IJSRuntime { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
IJSRuntime	

Services

Gets the System.IServiceProvider associated with this circuit.

Declaration

```
public IServiceProvider Services { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
System.IServiceProvider	

Class RemoteUriHelper

A Server-Side Blazor implemenation of IUriHelper.

Inheritance

System.Object

UriHelperBase

RemoteUriHelper

Implements

IUriHelper

Inherited Members

UriHelperBase.NavigateTo(String)

UriHelperBase.InitializeState()

UriHelperBase.GetAbsoluteUri()

UriHelperBase.GetBaseUri()

UriHelperBase.ToAbsoluteUri(String)

UriHelperBase.ToBaseRelativePath(String, String)

UriHelperBase.SetAbsoluteUri(String)

UriHelperBase.SetAbsoluteBaseUri(String)

UriHelperBase.TriggerOnLocationChanged()

UriHelperBase.OnLocationChanged

Namespace: Microsoft.AspNetCore.Blazor.Server.Circuits
Assembly: Microsoft.AspNetCore.Blazor.Server.dll

Svntax

public class RemoteUriHelper : UriHelperBase, IUriHelper

Constructors

RemoteUriHelper(IJSRuntime)

Creates a new RemoteUriHelper.

Declaration

public RemoteUriHelper(IJSRuntime jsRuntime)

Parameters

ТҮРЕ	NAME	DESCRIPTION
JJSRuntime	jsRuntime	

Methods

Initialize(String, String)

Initializes the RemoteUriHelper.

Declaration

public void Initialize(string uriAbsolute, string baseUriAbsolute)

ТҮРЕ	NAME	DESCRIPTION
System.String	uriAbsolute	The absolute URI of the current page.
System.String	base Uri Absolute	The absolute base URI of the current page.

NavigateToCore(String)

Navigates to the specified URI.

Declaration

protected override void NavigateToCore(string uri)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	uri	The destination URI. This can be absolute, or relative to the base URI (as returned by GetBaseUri()).

Overrides

UriHelperBase.NavigateToCore(String)

Notify Location Changed (String)

For framework use only.

Declaration

[JSInvokable("NotifyLocationChanged")]
public static void NotifyLocationChanged(string uriAbsolute)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	uriAbsolute	

Implements

IUriHelper

Namespace Microsoft.AspNetCore.Blazor.Services

Classes

UriHelperBase

A base class for IUriHelper implementations.

Interfaces

IUriHelper

Helpers for working with URIs and navigation state.

Interface IUriHelper

Helpers for working with URIs and navigation state.

 $Name space: {\bf Microsoft.} Asp {\bf NetCore.} Blazor. Services$

Assembly: Microsoft. AspNetCore. Blazor. dll

Syntax

public interface IUriHelper

Methods

GetAbsoluteUri()

Gets the current absolute URI.

Declaration

string GetAbsoluteUri()

Returns

ТҮРЕ	DESCRIPTION
System.String	The current absolute URI.

GetBaseUri()

Gets the base URI (with trailing slash) that can be prepended before relative URI paths to produce an absolute URI. Typically this corresponds to the 'href' attribute on the document's
base> element.

Declaration

string GetBaseUri()

Returns

ТУРЕ	DESCRIPTION
System.String	The URI prefix, which has a trailing slash.

NavigateTo(String)

Navigates to the specified URI.

Declaration

void NavigateTo(string uri)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	uri	The destination URI. This can be absolute, or relative to the base URI (as returned by GetBaseUri()).

ToAbsoluteUri(String)

Converts a relative URI into an absolute one (by resolving it relative to the current absolute URI).

Declaration

Uri ToAbsoluteUri(string href)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	href	The relative URI.

Returns

ТҮРЕ	DESCRIPTION
System.Uri	The absolute URI.

ToBaseRelativePath(String, String)

Given a base URI (e.g., one previously returned by GetBaseUri()), converts an absolute URI into one relative to the base URI prefix.

Declaration

string ToBaseRelativePath(string baseUri, string locationAbsolute)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	baseUri	The base URI prefix (e.g., previously returned by GetBaseUri()).
System.String	location Absolute	An absolute URI that is within the space of the base URI.

Returns

ТҮРЕ	DESCRIPTION
System.String	A relative URI path.

Events

On Location Changed

An event that fires when the navigation location has changed.

Declaration

event EventHandler<string> OnLocationChanged

Event Type

ТҮРЕ	DESCRIPTION
System.EventHandler < System.String >	

Class UriHelperBase

A base class for IUriHelper implementations.

Inheritance

System.Object

UriHelperBase

BrowserUriHelper

RemoteUriHelper

Implements

IUriHelper

Namespace: Microsoft.AspNetCore.Blazor.Services

Assembly: Microsoft.AspNetCore.Blazor.dll

Syntax

public abstract class UriHelperBase : Object, IUriHelper

Constructors

UriHelperBase()

Declaration

protected UriHelperBase()

Methods

GetAbsoluteUri()

Gets the current absolute URI.

Declaration

public string GetAbsoluteUri()

Returns

ТҮРЕ	DESCRIPTION
System.String	The current absolute URI.

GetBaseUri()

Gets the base URI (with trailing slash) that can be prepended before relative URI paths to produce an absolute URI. Typically this corresponds to the 'href' attribute on the document's
base> element.

Declaration

public virtual string GetBaseUri()

ТҮРЕ	DESCRIPTION
System.String	The URI prefix, which has a trailing slash.

InitializeState()

Called to initialize BaseURI and current URI before those values the first time. Override this method to dynamically calculate the those values.

Declaration

protected virtual void InitializeState()

NavigateTo(String)

Navigates to the specified URI.

Declaration

public void NavigateTo(string uri)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	uri	The destination URI. This can be absolute, or relative to the base URI (as returned by GetBaseUri()).

Navigate To Core (String)

Navigates to the specified URI.

Declaration

protected abstract void NavigateToCore(string uri)

Parameters

ТҮРЕ	NAME	DESCRIPTION	
System.String	uri	The destination URI. This can be absolute, or relative to the base URI (as returned by GetBaseUri()).	

SetAbsoluteBaseUri(String)

Sets the base URI to the provided value (after normalization).

Declaration

protected void SetAbsoluteBaseUri(string baseUri)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	baseUri	The base URI. Must be an absolute URI.

Remarks

Calling SetAbsoluteBaseUri(String) does not trigger OnLocationChanged.

SetAbsoluteUri(String)

Set the URI to the provided value.

Declaration

protected void SetAbsoluteUri(string uri)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	uri	The URI. Must be an absolute URI.

Remarks

Calling SetAbsoluteUri(String) does not trigger OnLocationChanged.

To Absolute Uri (String)

Converts a relative URI into an absolute one (by resolving it relative to the current absolute URI).

Declaration

public Uri ToAbsoluteUri(string href)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	href	The relative URI.

Returns

ТҮРЕ	DESCRIPTION
System.Uri	The absolute URI.

ToBaseRelativePath(String, String)

Given a base URI (e.g., one previously returned by GetBaseUri()), converts an absolute URI into one relative to the base URI prefix.

Declaration

public string ToBaseRelativePath(string baseUri, string locationAbsolute)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	baseUri	The base URI prefix (e.g., previously returned by GetBaseUri()).
System.String	location Absolute	An absolute URI that is within the space of the base URI.

ТҮРЕ	DESCRIPTION
System.String	A relative URI path.

Trigger On Location Changed ()

 $\label{thm:continuous} \mbox{Triggers the } \mbox{OnLocationChanged event with the current URI value}.$

Declaration

protected void TriggerOnLocationChanged()

Events

On Location Changed

An event that fires when the navigation location has changed.

Declaration

public event EventHandler<string> OnLocationChanged

Event Type

ТУРЕ	DESCRIPTION
System.EventHandler < System.String >	

Implements

IUriHelper

Namespace Microsoft.AspNetCore.Builder

Classes

Blazor Application Builder Extensions

Provides extension methods that add Blazor-related middleware to the ASP.NET pipeline.

BlazorOptions

Provides configuration options to the UseBlazor(IApplicationBuilder, BlazorOptions) middleware.

Server Side Blazor Application Builder Extensions

Extension methods to configure an Microsoft.AspNetCore.Builder.IApplicationBuilder for Server-Side Blazor.

Class BlazorApplicationBuilderExtensions

Provides extension methods that add Blazor-related middleware to the ASP.NET pipeline.

Inheritance

System.Object

BlazorApplicationBuilderExtensions

Namespace: Microsoft.AspNetCore.Builder

 $Assembly: \ Microsoft. AspNetCore. Blazor. Server. d II$

Syntax

public static class BlazorApplicationBuilderExtensions : Object

Methods

UseBlazor(IApplicationBuilder, BlazorOptions)

Configures the middleware pipeline to work with Blazor.

Declaration

public static void UseBlazor(this IApplicationBuilder app, BlazorOptions options)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. AspNetCore. Builder. I Application Builder	арр	
BlazorOptions	options	

UseBlazor<TProgram>(IApplicationBuilder)

Configures the middleware pipeline to work with Blazor.

Declaration

public static void UseBlazor<TProgram>(this IApplicationBuilder app)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. AspNetCore. Builder. I Application Builder	арр	

Type Parameters

NAME	DESCRIPTION
TProgram	Any type from the client app project. This is used to identify the client app assembly.

Class BlazorOptions

Provides configuration options to the UseBlazor(IApplicationBuilder, BlazorOptions) middleware.

Inheritance

System.Object

BlazorOptions

Namespace: Microsoft.AspNetCore.Builder

 $Assembly: \ Microsoft. AspNetCore. Blazor. Server. dll$

Syntax

public class BlazorOptions : Object

Constructors

BlazorOptions()

Declaration

public BlazorOptions()

Properties

${\sf ClientAssemblyPath}$

Full path to the client assembly.

Declaration

public string ClientAssemblyPath { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Class ServerSideBlazorApplicationBuilderExtensions

Extension methods to configure an Microsoft.AspNetCore.Builder.IApplicationBuilder for Server-Side Blazor.

Inheritance

System.Object

Server Side Blazor Application Builder Extensions

Namespace: Microsoft.AspNetCore.Builder

Assembly: Microsoft.AspNetCore.Blazor.Server.dll

Syntax

public static class ServerSideBlazorApplicationBuilderExtensions : Object

Methods

UseServerSideBlazor(IApplicationBuilder, BlazorOptions, Action<IBlazorApplicationBuilder>)

Registers middleware for Server-Side Blazor.

Declaration

public static IApplicationBuilder UseServerSideBlazor(this IApplicationBuilder builder, BlazorOptions options, Action<IBlazorApplicationBuilder> startupAction)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. AspNetCore. Builder. I Application Builder	builder	The Microsoft.AspNetCore.Builder.IApplicationBuilder.
BlazorOptions	options	A BlazorOptions instance used to configure the Blazor file provider.
System.Action < IBlazorApplicationBuilder >	startupAction	A delegate used to configure the renderer.

Returns

ТҮРЕ	DESCRIPTION
Microsoft. AspNetCore. Builder. I Application Builder	The Microsoft.AspNetCore.Builder.IApplicationBuilder.

UseServerSideBlazor(IApplicationBuilder, Type)

Registers Server-Side Blazor in the pipeline.

Declaration

public static IApplicationBuilder UseServerSideBlazor(this IApplicationBuilder builder, Type startupType)

ТҮРЕ	NAME	DESCRIPTION

ТУРЕ	NAME	DESCRIPTION
Microsoft. AspNetCore. Builder. I Application Builder	builder	The Microsoft.AspNetCore.Builder.IApplicationBuilder.
System.Type	startupType	A Blazor startup type.

Returns

ТҮРЕ	DESCRIPTION
Microsoft. AspNetCore. Builder. I Application Builder	The Microsoft.AspNetCore.Builder.IApplicationBuilder.

Use Server Side Blazor < TS tartup > (IApplication Builder)

Registers Server-Side Blazor in the pipeline.

Declaration

public static IApplicationBuilder UseServerSideBlazor<TStartup>(this IApplicationBuilder builder)

Parameters

ТУРЕ	NAME	DESCRIPTION
Microsoft. AspNetCore. Builder. I Application Builder	builder	The Microsoft.AspNetCore.Builder.IApplicationBuilder.

Returns

ТҮРЕ	DESCRIPTION
Microsoft. AspNetCore. Builder. I Application Builder	The Microsoft.AspNetCore.Builder.IApplicationBuilder.

Type Parameters

NAME	DESCRIPTION
TStartup	A Blazor startup type.

Namespace Microsoft. Extensions. Dependency Injection

Classes

Server Side Blazor Service Collection Extensions

Extension methods to configure an Microsoft. Extensions. Dependencylnjection. I Service Collection for Server-Side Blazor.

Class ServerSideBlazorServiceCollectionExtensions

Extension methods to configure an Microsoft. Extensions. Dependency Injection. I Service Collection for Server-Side Blazor.

Inheritance

System.Object

Server Side Blazor Service Collection Extensions

 $Name space: \ Microsoft. Extensions. Dependency Injection$

Assembly: Microsoft.AspNetCore.Blazor.Server.dll

Syntax

public static class ServerSideBlazorServiceCollectionExtensions : Object

Methods

AddServerSideBlazor(IServiceCollection)

Adds Server-Side Blazor services to the service collection.

Declaration

public static IServiceCollection AddServerSideBlazor(this IServiceCollection services)

Parameters

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

Returns

ТҮРЕ	DESCRIPTION
Microsoft. Extensions. Dependency Injection. I Service Collection	The Microsoft.Extensions.DependencyInjection.IServiceCollection.

AddServerSideBlazor(IServiceCollection, Action < ServerSideBlazorOptions >)

Adds Server-Side Blazor services to the service collection.

Declaration

public static IServiceCollection AddServerSideBlazor(this IServiceCollection services, Action<ServerSideBlazorOptions> configure)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Extensions. Dependency Injection. I Service Collection	services	The Microsoft. Extensions. Dependency Injection. I Service Collection.
System.Action < ServerSideBlazorOptions >	configure	A delegate to configure the ServerSideBlazorOptions.

ТҮРЕ	DESCRIPTION
Microsoft. Extensions. Dependency Injection. I Service Collection	The Microsoft.Extensions.DependencyInjection.IServiceCollection.

AddServerSideBlazor(IServiceCollection, Type)

Adds Server-Side Blazor services to the service collection.

Declaration

public static IServiceCollection AddServerSideBlazor(this IServiceCollection services, Type startupType)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Microsoft. Extensions. Dependency Injection. I Service Collection	services	The Microsoft. Extensions. Dependency Injection. I Service Collection.
System.Type	startupType	A Blazor startup type.

Returns

ТҮРЕ	DESCRIPT	ION
Microsoft. Extensions. Dependency Inje	ection.IServiceCollection The Micro	os of t. Extensions. Dependency Injection. I Service Collection.

$Add Server Side Blazor (IService Collection,\ Type,\ Action < Server Side Blazor Options >)$

Adds Server-Side Blazor services to the service collection.

Declaration

public static IServiceCollection AddServerSideBlazor(this IServiceCollection services, Type startupType, Action<ServerSideBlazorOptions> configure)

Parameters

ТУРЕ	NAME	DESCRIPTION
${\it Microsoft.} Extensions. Dependency Injection. IS ervice Collection$	services	The Microsoft. Extensions. Dependency Injection. I Service Collection.
System.Type	startupType	A Blazor startup type.
System.Action < ServerSideBlazorOptions >	configure	A delegate to configure the ServerSideBlazorOptions.

ТҮРЕ	DESCRIPTION
Microsoft. Extensions. Dependency Injection. I Service Collection	The Microsoft.Extensions.DependencyInjection.IServiceCollection.

Add Server Side Blazor < TS tartup > (IService Collection)

Adds Server-Side Blazor services to the service collection.

Declaration

public static IServiceCollection AddServerSideBlazor<TStartup>(this IServiceCollection services)

Parameters

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

Returns

ТҮРЕ	DESCRIPTION
Microsoft. Extensions. Dependency Injection. I Service Collection	The Microsoft.Extensions.DependencyInjection.IServiceCollection.

Type Parameters

NAME	DESCRIPTION
TStartup	A Blazor startup type.

$Add Server Side Blazor < TS tartup > (IService Collection,\ Action < Server Side Blazor Options >)$

Adds Server-Side Blazor services to the service collection.

Declaration

public static IServiceCollection AddServerSideBlazor<TStartup>(this IServiceCollection services, Action<ServerSideBlazorOptions> configure)

Parameters

ТУРЕ	NAME	DESCRIPTION
Microsoft. Extensions. Dependency Injection. I Service Collection	services	The Microsoft. Extensions. Dependency Injection. I Service Collection.
System.Action < ServerSideBlazorOptions >	configure	A delegate to configure the ServerSideBlazorOptions.

ТҮРЕ	DESCRIPTION
Microsoft. Extensions. Dependency Injection. I Service Collection	The Microsoft.Extensions.DependencyInjection.IServiceCollection.

Type Parameters

NAME	DESCRIPTION
TStartup	A Blazor startup type.

Namespace Microsoft. JSInterop

Classes

DotNetDispatcher

Provides methods that receive incoming calls from JS to .NET.

DotNetObjectRef

Wraps a JS interop argument, indicating that the value should not be serialized as JSON but instead should be passed as a reference.

To avoid leaking memory, the reference must later be disposed by JS code or by .NET code.

JSException

Represents errors that occur during an interop call from .NET to JavaScript.

JSInProcessRuntimeBase

Abstract base class for an in-process JavaScript runtime.

JSInvokable Attribute

Identifies a .NET method as allowing invocation from JavaScript code. Any method marked with this attribute may receive arbitrary parameter values from untrusted callers. All inputs should be validated carefully.

Json

Provides mechanisms for converting between .NET objects and JSON strings for use when making calls to JavaScript functions via JJSRuntime.

Warning: This is not intended as a general-purpose JSON library. It is only intended for use when making calls via IJSRuntime. Eventually its implementation will be replaced by something more general-purpose.

JSRuntime

Provides mechanisms for accessing the current IJSRuntime.

JSRuntimeBase

Abstract base class for a JavaScript runtime.

Interfaces

IJSInProcessRuntime

Represents an instance of a JavaScript runtime to which calls may be dispatched.

IJSRuntime

Represents an instance of a JavaScript runtime to which calls may be dispatched.

Class DotNetDispatcher

Provides methods that receive incoming calls from JS to .NET.

Inheritance

System.Object

DotNetDispatcher

Namespace: Microsoft.JSInterop
Assembly: Microsoft.JSInterop.dll

Syntax

public static class DotNetDispatcher : Object

Methods

BeginInvoke(String, String, String, Int64, String)

Receives a call from JS to .NET, locating and invoking the specified method asynchronously.

Declaration

public static void BeginInvoke(string callId, string assemblyName, string methodIdentifier, long dotNetObjectId, string argsJson)

Parameters

ТҮРЕ	NAME	DESCRIPTION	
System.String	callId	A value identifying the asynchronous call that should be passed back with the result, or null if no result notification is required.	
System.String	assemblyName	The assembly containing the method to be invoked.	
System.String	methodIdentifier	The identifier of the method to be invoked. The method must be annotated with a JSInvokableAttribute matching this identifier string.	
System.Int64	dotNetObjectId	For instance method calls, identifies the target object.	
System.String	argsJson	A JSON representation of the parameters.	

EndInvoke(Int64, Boolean, JSAsyncCallResult)

Receives notification that a call from .NET to JS has finished, marking the associated System.Threading.Tasks.Task as completed.

Declaration

[JSInvokable("DotNetDispatcher.EndInvoke")]
public static void EndInvoke(long asyncHandle, bool succeeded, JSAsyncCallResult result)

ТҮРЕ	NAME	DESCRIPTION	
System.Int64	asyncHandle	The identifier for the function invocation. A flag to indicate whether the invocation succeeded.	
System.Boolean	succeeded		
JSAsyncCallResult	result	If succeeded is true, specifies the invocation result. If succeeded is false, gives the System. Exception corresponding to the invocation failure.	

Invoke(String, String, Int64, String)

Receives a call from JS to .NET, locating and invoking the specified method.

Declaration

public static string Invoke(string assemblyName, string methodIdentifier, long dotNetObjectId, string
argsJson)

Parameters

ТҮРЕ	NAME	DESCRIPTION	
System.String	assemblyName	The assembly containing the method to be invoked. The identifier of the method to be invoked. The method must be annotated with a JSInvokableAttribute matching this identifier string. For instance method calls, identifies the target object.	
System.String	methodIdentifier		
System.Int64	dotNetObjectId		
System.String	argsJson	A JSON representation of the parameters.	

Returns

ТҮРЕ	DESCRIPTION
System.String	A JSON representation of the return value, or null.

ReleaseDotNetObject(Int64)

Releases the reference to the specified .NET object. This allows the .NET runtime to garbage collect that object if there are no other references to it.

To avoid leaking memory, the JavaScript side code must call this for every .NET object it obtains a reference to. The exception is if that object is used for the entire lifetime of a given user's session, in which case it is released automatically when the JavaScript runtime is disposed.

Declaration

[JSInvokable("DotNetDispatcher.ReleaseDotNetObject")]
public static void ReleaseDotNetObject(long dotNetObjectId)

ТҮРЕ	NAME	DESCRIPTION
System.Int64	dotNetObjectId	The identifier previously passed to JavaScript code.

Class DotNetObjectRef

Wraps a JS interop argument, indicating that the value should not be serialized as JSON but instead should be passed as a reference.

To avoid leaking memory, the reference must later be disposed by JS code or by .NET code.

Inheritance

System.Object

DotNetObjectRef

Implements

System.IDisposable

Namespace: Microsoft.JSInterop
Assembly: Microsoft.JSInterop.dll

Syntax

public class DotNetObjectRef : Object, IDisposable

Constructors

DotNetObjectRef(Object)

Constructs an instance of DotNetObjectRef.

Declaration

public DotNetObjectRef(object value)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Object	value	The value being wrapped.

Properties

Value

Gets the object instance represented by this wrapper.

Declaration

public object Value { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.Object	

Methods

Dispose()

Stops tracking this object reference, allowing it to be garbage collected (if there are no other references to it). Once the instance is disposed, it can no longer be used in interop calls from JavaScript code.

Declaration

public void Dispose()

EnsureAttachedToJsRuntime(IJSRuntime)

Ensures the DotNetObjectRef is associated with the specified IJSRuntime. Developers do not normally need to invoke this manually, since it is called automatically by framework code.

Declaration

public void EnsureAttachedToJsRuntime(IJSRuntime runtime)

Parameters

ТҮРЕ	NAME	DESCRIPTION
IJSRuntime	runtime	The IJSRuntime.

Implements

System.IDisposable

Interface IJSInProcessRuntime

Represents an instance of a JavaScript runtime to which calls may be dispatched.

Inherited Members

IJSRuntime.InvokeAsync<T>(String, Object[])

IJSRuntime. UntrackObjectRef (DotNetObjectRef)

Namespace: Microsoft.JSInterop
Assembly: Microsoft.JSInterop.dll

Syntax

public interface IJSInProcessRuntime : IJSRuntime

Methods

Invoke<T>(String, Object[])

Invokes the specified JavaScript function synchronously.

Declaration

T Invoke<T>(string identifier, params object[] args)

Parameters

ТҮРЕ	NAME	DESCRIPTION	
System.String	identifier	An identifier for the function to invoke. For example, the value "someScope.someFunction" will invoke the function window.someScope.someFunction .	
System.Object[]	args	JSON-serializable arguments.	

Returns

ТҮРЕ	DESCRIPTION
Т	An instance of T obtained by JSON-deserializing the return value.

Type Parameters

NAME	DESCRIPTION
Т	The JSON-serializable return type.

Interface IJSRuntime

Represents an instance of a JavaScript runtime to which calls may be dispatched.

Namespace: Microsoft.JSInterop
Assembly: Microsoft.JSInterop.dll

Syntax

public interface IJSRuntime

Methods

InvokeAsync<T>(String, Object[])

Invokes the specified JavaScript function asynchronously.

Declaration

Task<T> InvokeAsync<T>(string identifier, params object[] args)

Parameters

ТҮРЕ	NAME	DESCRIPTION	
System.String	identifier	An identifier for the function to invoke. For example, the value "someScope.someFunction" will invoke the function window.someScope.someFunction .	
System.Object[]	args	JSON-serializable arguments.	

Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < T >	An instance of T obtained by JSON-deserializing the return value.

Type Parameters

NAME	DESCRIPTION
Т	The JSON-serializable return type.

UntrackObjectRef(DotNetObjectRef)

Stops tracking the .NET object represented by the DotNetObjectRef. This allows it to be garbage collected (if nothing else holds a reference to it) and means the JS-side code can no longer invoke methods on the instance or pass it as an argument to subsequent calls.

Declaration

void UntrackObjectRef(DotNetObjectRef dotNetObjectRef)

Parameters

ТҮРЕ	NAME	DESCRIPTION
DotNetObjectRef	dotNetObjectRef	The reference to stop tracking.

Remarks

This method is called automaticallly by Dispose().

Class JSException

Represents errors that occur during an interop call from .NET to JavaScript.

Inheritance

System.Object

JSException

Namespace: Microsoft.JSInterop
Assembly: Microsoft.JSInterop.dll

Syntax

public class JSException : Exception

Constructors

JSException(String)

Constructs an instance of JSException.

Declaration

public JSException(string message)

ТҮРЕ	NAME	DESCRIPTION
System.String	message	The exception message.

Class JSInProcessRuntimeBase

Abstract base class for an in-process JavaScript runtime.

Inheritance

System.Object

JSRuntimeBase

JSInProcessRuntimeBase

Implements

IJSInProcessRuntime

IJSRuntime

Inherited Members

JSRuntimeBase.UntrackObjectRef(DotNetObjectRef)

JSRuntimeBase.InvokeAsync<T>(String, Object[])

JSRuntimeBase.BeginInvokeJS(Int64, String, String)

Namespace: Microsoft.JSInterop
Assembly: Microsoft.JSInterop.dll

Syntax

public abstract class JSInProcessRuntimeBase : JSRuntimeBase, IJSInProcessRuntime, IJSRuntime

Constructors

JSInProcessRuntimeBase()

Declaration

protected JSInProcessRuntimeBase()

Methods

Invoke<T>(String, Object[])

Invokes the specified JavaScript function synchronously.

Declaration

public T Invoke<T>(string identifier, params object[] args)

ТҮРЕ	NAME	DESCRIPTION	
System.String	identifier	An identifier for the function to invoke. For example, the value "someScope.someFunction" will invoke the function window.someScope.someFunction .	
System.Object[]	args	JSON-serializable arguments.	

Returns

ТҮРЕ	DESCRIPTION
Т	An instance of T obtained by JSON-deserializing the return value.

Type Parameters

NAME	DESCRIPTION	
Т	The JSON-serializable return type.	

InvokeJS(String, String)

Performs a synchronous function invocation.

Declaration

protected abstract string InvokeJS(string identifier, string argsJson)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	identifier	The identifier for the function to invoke.
System.String	argsJson	A JSON representation of the arguments.

Returns

ТҮРЕ	DESCRIPTION
System.String	A JSON representation of the result.

Implements

IJSInProcessRuntime IJSRuntime

Class JSInvokableAttribute

Identifies a .NET method as allowing invocation from JavaScript code. Any method marked with this attribute may receive arbitrary parameter values from untrusted callers. All inputs should be validated carefully.

Inheritance

System.Object

JSInvokableAttribute

Namespace: Microsoft.JSInterop
Assembly: Microsoft.JSInterop.dll

Syntax

public class JSInvokableAttribute : Attribute

Constructors

JSInvokableAttribute()

Constructs an instance of JSInvokableAttribute without setting an identifier for the method.

Declaration

public JSInvokableAttribute()

JSInvokableAttribute(String)

Constructs an instance of JSInvokableAttribute using the specified identifier.

Declaration

public JSInvokableAttribute(string identifier)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	identifier	An identifier for the method, which must be unique within the scope of the assembly.

Properties

Identifier

Gets the identifier for the method. The identifier must be unique within the scope of an assembly.

If not set, the identifier is taken from the name of the method. In this case the method name must be unique within the assembly.

Declaration

public string Identifier { get; }

Property Value

ТҮРЕ	DESCRIPTION
System.String	

Class Json

Provides mechanisms for converting between .NET objects and JSON strings for use when making calls to JavaScript functions via IJSRuntime.

Warning: This is not intended as a general-purpose JSON library. It is only intended for use when making calls via IJSRuntime. Eventually its implementation will be replaced by something more general-purpose.

Inheritance

System.Object

Json

Namespace: Microsoft.JSInterop
Assembly: Microsoft.JSInterop.dll

Syntax

public static class Json : Object

Methods

Deserialize < T > (String)

Deserializes the JSON string, creating an object of the specified generic type.

Declaration

public static T Deserialize<T>(string json)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	json	The JSON string.

Returns

ТҮРЕ	DESCRIPTION	
Т	An object of the specified type.	

Type Parameters

NAME	DESCRIPTION
Т	The type of object to create.

Serialize(Object)

Serializes the value as a JSON string.

Declaration

public static string Serialize(object value)

ТҮРЕ	NAME	DESCRIPTION
System.Object	value	The value to serialize.

ТҮРЕ	DESCRIPTION
System.String	The JSON string.

Class JSRuntime

Provides mechanisms for accessing the current IJSRuntime.

Inheritance

System.Object

JSRuntime

Namespace: Microsoft.JSInterop
Assembly: Microsoft.JSInterop.dll

Syntax

```
public static class JSRuntime : Object
```

Properties

Current

Gets the current IJSRuntime, if any.

Declaration

```
public static IJSRuntime Current { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
IJSRuntime	

Methods

SetCurrentJSRuntime(IJSRuntime)

Sets the current JS runtime to the supplied instance.

This is intended for framework use. Developers should not normally need to call this method.

Declaration

```
public static void SetCurrentJSRuntime(IJSRuntime instance)
```

ТУРЕ	NAME	DESCRIPTION
IJSRuntime	instance	The new current IJSRuntime.

Class JSRuntimeBase

Abstract base class for a JavaScript runtime.

Inheritance

System.Object

JSRuntimeBase

JSInProcessRuntimeBase

Implements

IJSRuntime

Namespace: Microsoft.JSInterop
Assembly: Microsoft.JSInterop.dll

Syntax

public abstract class JSRuntimeBase : Object, IJSRuntime

Constructors

JSRuntimeBase()

Constructs an instance of JSRuntimeBase.

Declaration

public JSRuntimeBase()

Methods

BeginInvokeJS(Int64, String, String)

Begins an asynchronous function invocation.

Declaration

protected abstract void BeginInvokeJS(long asyncHandle, string identifier, string argsJson)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int64	asyncHandle	The identifier for the function invocation, or zero if no async callback is required.
System.String	identifier	The identifier for the function to invoke.
System.String	argsJson	A JSON representation of the arguments.

InvokeAsync<T>(String, Object[])

Invokes the specified JavaScript function asynchronously.

Declaration

public Task<T> InvokeAsync<T>(string identifier, params object[] args)

ТҮРЕ	NAME	DESCRIPTION
System.String	identifier	An identifier for the function to invoke. For example, the value "someScope.someFunction" will invoke the function window.someScope.someFunction .
System.Object[]	args	JSON-serializable arguments.

Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <t></t>	An instance of T obtained by JSON-deserializing the return value.

Type Parameters

NAME	DESCRIPTION
T	The JSON-serializable return type.

UntrackObjectRef(DotNetObjectRef)

Stops tracking the .NET object represented by the DotNetObjectRef. This allows it to be garbage collected (if nothing else holds a reference to it) and means the JS-side code can no longer invoke methods on the instance or pass it as an argument to subsequent calls.

Declaration

public void UntrackObjectRef(DotNetObjectRef dotNetObjectRef)

Parameters

ТҮРЕ	NAME	DESCRIPTION
DotNetObjectRef	dotNetObjectRef	The reference to stop tracking.

Remarks

This method is called automatically by Dispose().

Implements

IJSRuntime

Namespace Microsoft. JSInterop. Internal

Classes

 ${\sf JSA sync Call Result}$

Intended for framework use only.

Interfaces

ICustom Arg Serializer

Internal. Intended for framework use only.

Interface ICustomArgSerializer

Internal. Intended for framework use only.

Namespace: Microsoft.JSInterop.Internal Assembly: Microsoft.JSInterop.dll

Syntax

public interface ICustomArgSerializer

Methods

ToJsonPrimitive()

Internal. Intended for framework use only.

Declaration

object ToJsonPrimitive()

ТҮРЕ	DESCRIPTION
System.Object	

Class JSAsyncCallResult

Intended for framework use only.

Inheritance

System.Object JSAsyncCallResult

 $Name space: {\bf Microsoft. JSInterop. Internal}$

Assembly: Microsoft. JSInterop. d II

Syntax

public class JSAsyncCallResult : Object