Namespace SoftwareProject.Components Classes

<u>App</u>

Routes

TestClass

Calculates the age of a person on a certain date based on the supplied date of birth. Takes account of leap years, using the convention that someone born on 29th February in a leap year is not legally one year older until 1st March of a non-leap year.

<u>Imports</u>

Class App

```
Namespace: <u>SoftwareProject.Components</u>
```

Assembly: SoftwareProject.dll

```
public class App : ComponentBase, IComponent, IHandleEvent, IHandleAfterRender
```

Inheritance

<u>object</u> □ ← <u>ComponentBase</u> □ ← App

Implements

IComponent ☑, IHandleEvent ☑, IHandleAfterRender ☑

Inherited Members

```
ComponentBase.OnInitialized(), ComponentBase.OnInitializedAsync(), ComponentBase.OnParametersSet(), ComponentBase.OnParametersSetAsync(), ComponentBase.ShouldRender(), ComponentBase.ShouldRender(), ComponentBase.OnAfterRender(bool), ComponentBase.OnAfterRenderAsync(bool), ComponentBase.OnAfterRenderAsync(bool), ComponentBase.InvokeAsync(Func < Task > ), ComponentBase.InvokeAsync(Func < Task > ), ComponentBase.DispatchExceptionAsync(Exception), ComponentBase.Icomponent.Attach(RenderHandle), ComponentBase.Icomponent.Attach(RenderHandle), ComponentBase.SetParametersAsync(ParameterView), ComponentBase.IHandleEvent.HandleEventAsync(EventCallbackWorkItem, object), ComponentBase.IHandleAfterRender.OnAfterRenderAsync(), ComponentBase.RendererInfo, ComponentBase.Assets, ComponentBase.AssignedRenderMode, object.Equals(object), object.Equals(object), object.GetType(), object.ToString(), object.MemberwiseClone(), object.ReferenceEquals(object, object), object.ToString(), object.ReferenceEquals(object, object), object.ReferenceEquals(
```

Methods

BuildRenderTree(RenderTreeBuilder)

Renders the component to the supplied RenderTreeBuilder.

```
protected override void BuildRenderTree(RenderTreeBuilder builder)
```

Class Routes

Namespace: <u>SoftwareProject.Components</u>

Assembly: SoftwareProject.dll

```
public class Routes : ComponentBase, IComponent, IHandleEvent, IHandleAfterRender
```

Inheritance

<u>object</u> ♂ ← <u>ComponentBase</u> ♂ ← Routes

Implements

<u>IComponent</u> ☑, <u>IHandleEvent</u> ☑, <u>IHandleAfterRender</u> ☑

Inherited Members

```
ComponentBase.OnInitialized(), ComponentBase.OnInitializedAsync(), ComponentBase.OnParametersSet(), ComponentBase.OnParametersSetAsync(), ComponentBase.StateHasChanged(), ComponentBase.ShouldRender(), ComponentBase.ShouldRender(), ComponentBase.OnAfterRender(bool), ComponentBase.OnAfterRenderAsync(bool), ComponentBase.InvokeAsync(bool), ComponentBase.InvokeAsync(Func < Task > ), ComponentBase.InvokeAsync(Euception), ComponentBase.InvokeAsync(Euception), ComponentBase.Icomponent.Attach(RenderHandle), ComponentBase.SetParametersAsync(ParameterView), ComponentBase.IHandleEvent.HandleEventAsync(EventCallbackWorkItem, object), ComponentBase.IHandleAfterRender.OnAfterRenderAsync(), ComponentBase.RendererInfo, ComponentBase.Assets, ComponentBase.AssignedRenderMode, object.Equals(object), object.Equals(object), object.GetType(), object.ToString(), object.MemberwiseClone(), object.ReferenceEquals(object, object), object.ToString(), object.ReferenceEquals(object, object), object.ReferenceEqua
```

Methods

BuildRenderTree(RenderTreeBuilder)

Renders the component to the supplied RenderTreeBuilder.

```
protected override void BuildRenderTree(RenderTreeBuilder __builder)
```

Class TestClass

Namespace: <u>SoftwareProject.Components</u>

Assembly: SoftwareProject.dll

Calculates the age of a person on a certain date based on the supplied date of birth. Takes account of leap years, using the convention that someone born on 29th February in a leap year is not legally one year older until 1st March of a non-leap year.

```
public class TestClass
```

Inheritance

<u>object</u>

✓ TestClass

Inherited Members

<u>object.Equals(object)</u> , <u>object.Equals(object, object)</u> , <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

Remarks

This code is not guaranteed to be correct for non-UK locales, as some countries have skipped certain dates within living memory.

Properties

TestProperty

Calculates the age of a person on a certain date based on the supplied date of birth. Takes account of leap years, using the convention that someone born on 29th February in a leap year is not legally one year older until 1st March of a non-leap year.

```
private int TestProperty { get; set; }
```

Property Value

int♂

Age of the individual in years (as an integer).

Remarks

This code is not guaranteed to be correct for non-UK locales, as some countries have skipped certain dates within living memory.

Methods

TestMethod(DateTime, DateTime)

Calculates the age of a person on a certain date based on the supplied date of birth. Takes account of leap years, using the convention that someone born on 29th February in a leap year is not legally one year older until 1st March of a non-leap year.

public void TestMethod(DateTime dateOfBirth, DateTime date)

Parameters

dateOfBirth <u>DateTime</u> ☑

Individual's date of birth.

date <u>DateTime</u>

☑

Date at which to evaluate age at.

Remarks

This code is not guaranteed to be correct for non-UK locales, as some countries have skipped certain dates within living memory.

Class Imports

```
Namespace: <u>SoftwareProject.Components</u>
```

Assembly: SoftwareProject.dll

```
public class _Imports : ComponentBase, IComponent, IHandleEvent, IHandleAfterRender
```

Inheritance

<u>object</u> ✓ ← <u>ComponentBase</u> ✓ ← <u>Imports</u>

Implements

<u>IComponent</u>

☑, <u>IHandleEvent</u>

☑, <u>IHandleAfterRender</u>

☑

Inherited Members

```
ComponentBase.OnInitialized() , ComponentBase.OnInitializedAsync() , ComponentBase.OnParametersSetAsync() , ComponentBase.OnParametersSetAsync() , ComponentBase.ShouldRender() , ComponentBase.ShouldRender() , ComponentBase.OnAfterRender(bool) , ComponentBase.OnAfterRenderAsync(bool) , ComponentBase.InvokeAsync(bool) , ComponentBase.InvokeAsync(Func < Task > ) , ComponentBase.InvokeAsync(Func < Task > ) , ComponentBase.DispatchExceptionAsync(Exception) , ComponentBase.Icomponent.Attach(RenderHandle) , ComponentBase.SetParametersAsync(ParameterView) , ComponentBase.IHandleEvent.HandleEventAsync(EventCallbackWorkItem, object) , ComponentBase.IHandleAfterRender.OnAfterRenderAsync() , ComponentBase.RendererInfo , ComponentBase.Assets , ComponentBase.AssignedRenderMode , object.Equals(object) , object.Equals(object) , object.GetType() , object.ToString() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString() ,
```

Methods

BuildRenderTree(RenderTreeBuilder)

Renders the component to the supplied RenderTreeBuilder.

```
protected override void BuildRenderTree(RenderTreeBuilder __builder)
```

Namespace SoftwareProject.Components. Layout

Classes

MainLayout

<u>NavMenu</u>

Class MainLayout

Namespace: SoftwareProject.Components.Layout

Assembly: SoftwareProject.dll

```
public class MainLayout : LayoutComponentBase, IComponent, IHandleEvent, IHandleAfterRender
```

Inheritance

<u>object</u> ♂ ← <u>ComponentBase</u> ♂ ← <u>LayoutComponentBase</u> ♂ ← <u>MainLayout</u>

Implements

Inherited Members

Fields

_darkPalette

private readonly PaletteDark _darkPalette

Field Value

PaletteDark

_drawerOpen

```
private bool _drawerOpen
```

Field Value

<u>bool</u> ☑

_isDarkMode

```
private bool _isDarkMode
```

Field Value

<u>bool</u> ♂

_lightPalette

```
private readonly PaletteLight _lightPalette
```

Field Value

PaletteLight

_theme

```
private MudTheme? _theme
```

Field Value

MudTheme

Properties

DarkLightModeButtonIcon

```
public string DarkLightModeButtonIcon { get; }
```

Property Value

Methods

BuildRenderTree(RenderTreeBuilder)

Renders the component to the supplied RenderTreeBuilder.

```
protected override void BuildRenderTree(RenderTreeBuilder __builder)
```

Parameters

builder <u>RenderTreeBuilder</u>♂

DarkModeToggle()

```
private void DarkModeToggle()
```

DrawerToggle()

```
private void DrawerToggle()
```

OnInitialized()

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

protected override void OnInitialized()

Class NavMenu

Namespace: SoftwareProject.Components.Layout

Assembly: SoftwareProject.dll

```
public class NavMenu : ComponentBase, IComponent, IHandleEvent, IHandleAfterRender
```

Inheritance

<u>object</u> ♂ ← <u>ComponentBase</u> ♂ ← NavMenu

Implements

<u>IComponent</u>

☑, <u>IHandleEvent</u>

☑, <u>IHandleAfterRender</u>

☑

Inherited Members

```
ComponentBase.OnInitialized(), ComponentBase.OnInitializedAsync(), ComponentBase.OnParametersSet(), ComponentBase.OnParametersSetAsync(), ComponentBase.StateHasChanged(), ComponentBase.ShouldRender(), ComponentBase.ShouldRender(), ComponentBase.OnAfterRender(bool), ComponentBase.OnAfterRenderAsync(bool), ComponentBase.InvokeAsync(bool), ComponentBase.InvokeAsync(Func < Task > ), ComponentBase.InvokeAsync(Func < Task > ), ComponentBase.DispatchExceptionAsync(Exception), ComponentBase.Icomponent.Attach(RenderHandle), ComponentBase.Icomponent.Attach(RenderHandle), ComponentBase.SetParametersAsync(ParameterView), ComponentBase.IHandleEvent.HandleEventAsync(EventCallbackWorkItem, object), ComponentBase.IHandleAfterRender.OnAfterRenderAsync(), ComponentBase.RendererInfo, ComponentBase.Assets, ComponentBase.AssignedRenderMode, object.Equals(object), object.Equals(object), object.GetType(), object.ToString(), object.MemberwiseClone(), object.ReferenceEquals(object, object), object.ToString(), object.ReferenceEquals(object, object), object.ReferenceEquals(object, object
```

Methods

BuildRenderTree(RenderTreeBuilder)

Renders the component to the supplied RenderTreeBuilder.

```
protected override void BuildRenderTree(RenderTreeBuilder builder)
```

Namespace SoftwareProject.Components. Pages

Classes

Counter

Error

Home

Weather

Weather.WeatherForecast

Class Counter

```
Namespace: SoftwareProject.Components.Pages
Assembly: SoftwareProject.dll
 [Route("/counter")]
 public class Counter : ComponentBase, IComponent, IHandleEvent, IHandleAfterRender
Inheritance
object  

← ComponentBase  

← Counter
Implements
IComponent ☑, IHandleEvent ☑, IHandleAfterRender ☑
Inherited Members
ComponentBase.OnInitialized() □ , ComponentBase.OnInitializedAsync() □ ,
<u>ComponentBase.OnParametersSet()</u> □ , <u>ComponentBase.OnParametersSetAsync()</u> □ ,
ComponentBase.StateHasChanged() □ , ComponentBase.ShouldRender() □ ,
ComponentBase.InvokeAsync(Action) ♂, ComponentBase.InvokeAsync(Func<Task>) ♂,
ComponentBase.DispatchExceptionAsync(Exception) ≥ ,
ComponentBase.IComponent.Attach(RenderHandle) ♂,
ComponentBase.SetParametersAsync(ParameterView) □,
ComponentBase.IHandleEvent.HandleEventAsync(EventCallbackWorkItem, object) ,
<u>ComponentBase.IHandleAfterRender.OnAfterRenderAsync()</u> ✓ , <u>ComponentBase.RendererInfo</u> ✓ ,
ComponentBase.Assets ☑, ComponentBase.AssignedRenderMode ☑, object.Equals(object) ☑,
object.Equals(object, object) □ , object.GetHashCode() □ , object.GetType() □ ,
```

Fields

currentCount

private int currentCount

Field Value

Methods

BuildRenderTree(RenderTreeBuilder)

Renders the component to the supplied $\underline{RenderTreeBuilder}$.

protected override void BuildRenderTree(RenderTreeBuilder __builder)

Parameters

__builder <u>RenderTreeBuilder</u>♂

IncrementCount()

private void IncrementCount()

Class Error

```
Namespace: SoftwareProject.Components.Pages
Assembly: SoftwareProject.dll
 [Route("/Error")]
 public class Error : ComponentBase, IComponent, IHandleEvent, IHandleAfterRender
Inheritance
object  

← ComponentBase  
← Error
Implements
IComponent ☑, IHandleEvent ☑, IHandleAfterRender ☑
Inherited Members
ComponentBase.OnInitializedAsync() ☑, ComponentBase.OnParametersSet() ☑,
ComponentBase.OnParametersSetAsync() □ , ComponentBase.StateHasChanged() □ ,
ComponentBase.ShouldRender() □ , ComponentBase.OnAfterRender(bool) □ ,
ComponentBase.OnAfterRenderAsync(bool)  

∠ , ComponentBase.InvokeAsync(Action)  

∠ ,
ComponentBase.InvokeAsync(Func<Task>) ☑, ComponentBase.DispatchExceptionAsync(Exception) ☑,
ComponentBase.IComponent.Attach(RenderHandle) □ ,
ComponentBase.SetParametersAsync(ParameterView) □,
ComponentBase.IHandleEvent.HandleEventAsync(EventCallbackWorkItem, object) ,
<u>ComponentBase.IHandleAfterRender.OnAfterRenderAsync()</u> ✓ , <u>ComponentBase.RendererInfo</u> ✓ ,
ComponentBase.Assets ☑, ComponentBase.AssignedRenderMode ☑, object.Equals(object) ☑,
object.Equals(object, object) □ , object.GetHashCode() □ , object.GetType() □ ,
```

object.MemberwiseClone() ♂, object.ReferenceEquals(object, object) ♂, object.ToString() ♂

Properties

HttpContext

```
[CascadingParameter]
private HttpContext? HttpContext { get; set; }
```

Property Value

<u>HttpContext</u> ☑

RequestId

```
private string? RequestId { get; set; }
Property Value
string♂
```

ShowRequestId

```
private bool ShowRequestId { get; }
```

Property Value

bool♂

Methods

BuildRenderTree(RenderTreeBuilder)

Renders the component to the supplied RenderTreeBuilder.

```
protected override void BuildRenderTree(RenderTreeBuilder __builder)
```

Parameters

builder RenderTreeBuilder♂

OnInitialized()

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

protected override void OnInitialized()

Class Home

```
Namespace: SoftwareProject.Components.Pages
Assembly: SoftwareProject.dll
 [Route("/")]
 public class Home: ComponentBase, IComponent, IHandleEvent, IHandleAfterRender
Inheritance
object  

← ComponentBase  

← Home
Implements
IComponent ☑, IHandleEvent ☑, IHandleAfterRender ☑
Inherited Members
ComponentBase.OnInitialized() □ , ComponentBase.OnInitializedAsync() □ ,
<u>ComponentBase.OnParametersSet()</u> □ , <u>ComponentBase.OnParametersSetAsync()</u> □ ,
ComponentBase.StateHasChanged() □ , ComponentBase.ShouldRender() □ ,
ComponentBase.InvokeAsync(Action) ☑, ComponentBase.InvokeAsync(Func<Task>) ☑,
ComponentBase.DispatchExceptionAsync(Exception) □ ,
ComponentBase.IComponent.Attach(RenderHandle) ♂,
ComponentBase.SetParametersAsync(ParameterView) □,
ComponentBase.IHandleEvent.HandleEventAsync(EventCallbackWorkItem, object) ,
ComponentBase.IHandleAfterRender.OnAfterRenderAsync()  

☐ , ComponentBase.RendererInfo  

☐ ,
ComponentBase.Assets ☑, ComponentBase.AssignedRenderMode ☑, object.Equals(object) ☑,
object.Equals(object, object) □ , object.GetHashCode() □ , object.GetType() □ ,
```

Methods

BuildRenderTree(RenderTreeBuilder)

Renders the component to the supplied RenderTreeBuilder.

```
protected override void BuildRenderTree(RenderTreeBuilder __builder)
```

Parameters

__builder <u>RenderTreeBuilder</u>♂

Class Weather

```
Namespace: SoftwareProject.Components.Pages
Assembly: SoftwareProject.dll
 [Route("/weather")]
 public class Weather : ComponentBase, IComponent, IHandleEvent, IHandleAfterRender
Inheritance
object ☑ ← ComponentBase ☑ ← Weather
Implements
IComponent ☑, IHandleEvent ☑, IHandleAfterRender ☑
Inherited Members
ComponentBase.OnInitialized() □ , ComponentBase.OnParametersSet() □ ,
ComponentBase.OnParametersSetAsync() □ , ComponentBase.StateHasChanged() □ ,
ComponentBase.ShouldRender() □ , ComponentBase.OnAfterRender(bool) □ ,
ComponentBase.OnAfterRenderAsync(bool)  

✓ , ComponentBase.InvokeAsync(Action)  

✓ ,
ComponentBase.InvokeAsync(Func<Task>) ☑, ComponentBase.DispatchExceptionAsync(Exception) ☑,
ComponentBase.IComponent.Attach(RenderHandle) □ ,
ComponentBase.SetParametersAsync(ParameterView) □,
ComponentBase.IHandleEvent.HandleEventAsync(EventCallbackWorkItem, object) ,
<u>ComponentBase.IHandleAfterRender.OnAfterRenderAsync()</u> ✓ , <u>ComponentBase.RendererInfo</u> ✓ ,
```

ComponentBase.Assets ☑, ComponentBase.AssignedRenderMode ☑, object.Equals(object) ☑,

object.MemberwiseClone() ♂, object.ReferenceEquals(object, object) ♂, object.ToString() ♂

object.Equals(object, object) □ , object.GetHashCode() □ , object.GetType() □ ,

Fields

forecasts

```
private Weather.WeatherForecast[]? forecasts
```

Field Value

WeatherForecast[]

Methods

BuildRenderTree(RenderTreeBuilder)

Renders the component to the supplied RenderTreeBuilder.

protected override void BuildRenderTree(RenderTreeBuilder __builder)

Parameters

__builder <u>RenderTreeBuilder</u>♂

OnInitializedAsync()

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.

protected override Task OnInitializedAsync()

Returns

Task ☑

A <u>Task</u> representing any asynchronous operation.

Class Weather. Weather Forecast

Namespace: SoftwareProject.Components.Pages

Assembly: SoftwareProject.dll

private class Weather.WeatherForecast

Inheritance

<u>object</u> ♂ ← Weather.WeatherForecast

Inherited Members

 $\underline{object.Equals(object)} \ \ \ \ \ \underline{object.Equals(object, object)} \ \ \ \ \ \ \underline{object.GetHashCode()} \ \ \ \ \ \underline{object.GetType()} \ \ \ \ \ \underline{object.MemberwiseClone()} \ \ \ \ \underline{object.ReferenceEquals(object, object)} \ \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \underline{object.ToString()}$

Properties

Date

```
public DateOnly Date { get; set; }
```

Property Value

Summary

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

Property Value

TemperatureC

```
public int TemperatureC { get; set; }
Property Value
int♂
```

TemperatureF

```
public int TemperatureF { get; }
```

Property Value

<u>int</u>♂

Namespace __Blazor.SoftwareProject. Components.Pages.Weather

<u>TypeInference</u>

Class TypeInference

```
Namespace: <u>Blazor.SoftwareProject.Components.Pages.Weather</u>
```

Assembly: SoftwareProject.dll

```
internal static class TypeInference
```

Inheritance

Inherited Members

<u>object.Equals(object)</u> dobject.Equals(object, object) dobject.GetHashCode() dobject.GetType() dobject.MemberwiseClone() dobject.ReferenceEquals(object, object) dobject.ToString() dob

Methods

CreateMudTableSortLabel_1<T>(RenderTreeBuilder, int, int, SortDirection, int, Func<T, object>, int, RenderFragment)

```
public static void CreateMudTableSortLabel_1<T>(RenderTreeBuilder __builder, int seq,
int __seq0, SortDirection __arg0, int __seq1, Func<T, object> __arg1, int __seq2,
RenderFragment __arg2)
```

```
__builder RenderTreeBuilder

seq int

__seq0 int

__arg0 SortDirection

__seq1 int

__arg1 Func

seq2 int

__seq2 int

___
```

```
__arg2 RenderFragment 

Type Parameters
```

Τ

CreateMudTableSortLabel_2<T>(RenderTreeBuilder, int, int, Func<T, object>, int, RenderFragment)

```
public static void CreateMudTableSortLabel_2<T>(RenderTreeBuilder __builder, int seq, int __seq0, Func<T, object> __arg0, int __seq1, RenderFragment __arg1)

Parameters
__builder RenderTreeBuilder

seq int

__seq0 int

__arg0 Func

<T, object
>_seq1 int
-_arg1 RenderFragment

Type Parameters

T
```

CreateMudTableSortLabel_3<T>(RenderTreeBuilder, int, int, Func<T, object>, int, RenderFragment)

```
public static void CreateMudTableSortLabel_3<T>(RenderTreeBuilder __builder, int seq, int
__seq0, Func<T, object> __arg0, int __seq1, RenderFragment __arg1)
```

```
builder <u>RenderTreeBuilder</u>♂
seq <u>int</u>♂
__seq0 <u>int</u>♂
__arg0 Funcd<T, objectd>
__seq1 <u>int</u>♂
__arg1 RenderFragment♂
Type Parameters
Τ
CreateMudTableSortLabel_4<T>(RenderTreeBuilder, int, int,
Func<T, object>, int, RenderFragment)
  public static void CreateMudTableSortLabel_4<T>(RenderTreeBuilder __builder, int seq, int
 __seq0, Func<T, object> __arg0, int __seq1, RenderFragment __arg1)
Parameters
builder <u>RenderTreeBuilder</u>♂
seq <u>int</u>♂
__seq0 <u>int</u>♂
arg0 Func♂<T, object♂>
seq1 <u>int</u>♂
__arg1 RenderFragment♂
Type Parameters
Τ
```

CreateMudTable_0<T>(RenderTreeBuilder, int, int, IEnumerable<T>, int, bool, int, string, int, int, int, bool, int, RenderFragment, int, RenderFragment<T>, int, RenderFragment)

```
public static void CreateMudTable_0<T>(RenderTreeBuilder __builder, int seq, int __seq0,
  IEnumerable<T> __arg0, int __seq1, bool __arg1, int __seq2, string __arg2, int __seq3, int
  __arg3, int __seq4, bool __arg4, int __seq5, RenderFragment __arg5, int __seq6,
  RenderFragment<T> __arg6, int __seq7, RenderFragment __arg7)
Parameters
builder <u>RenderTreeBuilder</u>♂
seq <u>int</u>♂
seq0 <u>int</u>♂
__arg0 <u>IEnumerable</u>♂<T>
seq1 <u>int</u>♂
__arg1 bool ♂
seq2 <u>int</u>₫
__arg2 string♂
__seq3 <u>int</u>♂
__arg3 <u>int</u>♂
seq4 <u>int</u>♂
arg4 <u>bool</u>♂
seq5 <u>int</u>₫
arg5 <u>RenderFragment</u>♂
seq6 <u>int</u>₫
```

__arg6 <u>RenderFragment</u> < T>

__seq7 <u>int</u>♂

__arg7 <u>RenderFragment</u>♂

Type Parameters

Т