UseCaseAnalyser.GraphVisualiser

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Kapitel 1

Verzeichnis der Namensbereiche

1.1 Pakete

Hier folgen die Pakete mit einer Kurzbeschreibung (wenn verfügbar):

UseCaseAnalyser 9
UseCaseAnalyser.GraphVisualiser 9
UseCaseAnalyser.GraphVisualiser.DrawingElements 9

Kapitel 2

Hierarchie-Verzeichnis

2.1 Klassenhierarchie

Die Liste der Ableitungen ist -mit Einschränkungen- alphabetisch sortiert:

FrameworkElement
- UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine 11

UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement 16
- UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge 17
- UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode 23

UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser 21

Kapitel 3

Klassen-Verzeichnis

3.1 Auflistung der Klassen

Hier folgt die Aufzählung aller Klassen, Strukturen, Varianten und Schnittstellen mit einer Kurzbeschreibung:

UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine
: Class for displaying a capped line. Sources from http://blogs.msdn.com/b/mrochon/archive/2011/01/ aspx . . . 11

UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement
: An interface for classes that contain a GraphElement and should be selectable via the visualisation. . . . 16

UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge
: Class for displaying a edge as a Bezier curve within a UseCaseGraph. On selection line color changes. It contains the edge to display as a reference. . . . 17

UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser
: Class for displaying a UseCaseGraph element. It offers possibilities to select a single GraphElement while setting a dependency property GraphElement. Furthermore the user has the option to move all nodes. . . . 21

UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode
: Class for displaying a node as rectangule within a UseCaseGraph. On selection border color changes. It contains the node to display as a reference. . . . 23

Kapitel 4

Datei-Verzeichnis

4.1 Auflistung der Dateien

Hier folgt die Aufzählung aller Dateien mit einer Kurzbeschreibung:

UseCaseGraphVisualiser.xaml.cs 30
DrawingElements/CappedLine.cs 29
DrawingElements/ISelectableGraphElement.cs 29
DrawingElements/UseCaseEdge.xaml.cs 29
DrawingElements/UseCaseNode.xaml.cs 30
Properties/AssemblyInfo.cs 30

Kapitel 5

Dokumentation der Namensbereiche

5.1 Paket UseCaseAnalyser

Namensbereiche

- package GraphVisualiser

5.2 Paket UseCaseAnalyser.GraphVisualiser

Namensbereiche

- package DrawingElements

Klassen

- class UseCaseGraphVisualiser

  Class for displaying a UseCaseGraph element. It offers possibilities to select a single GraphElement while setting a dependency property GraphElement. Furthermore the user has the option to move all nodes.

5.3 Paket UseCaseAnalyser.GraphVisualiser.DrawingElements

Klassen

- class CappedLine

  Class for displaying a capped line. Sources from http://blogs.msdn.com/b/mrochon/archive/2011/01/10/custom-l aspx
- interface ISelectableGraphElement

  An interface for classes that contain a GraphElement and should be selectable via the visualisation.
- class UseCaseEdge

  Class for displaying a edge as a Bezier curve within a UseCaseGraph. On selection line color changes. It contains the edge to display as a reference.
- class UseCaseNode

  Class for displaying a node as rectangule within a UseCaseGraph. On selection border color changes. It contains the node to display as a reference.

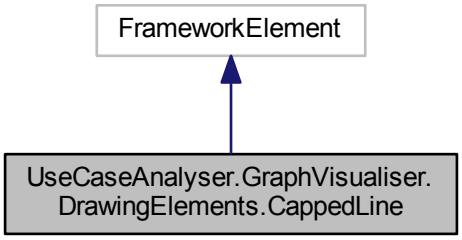
Kapitel 6

Klassen-Dokumentation

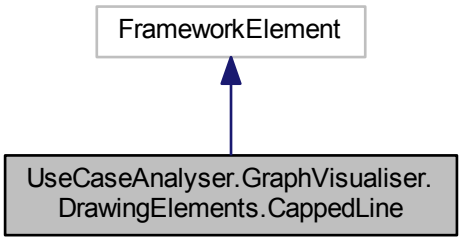
6.1 UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine Klassenreferenz

Class for displaying a capped line. Sources from http://blogs.msdn.com/b/mrochon/archive/2011/01/10/custo
aspx

Klassendiagramm für UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine:



Zusammengehörigkeiten von UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine:



Öffentliche Methoden

- virtual void OnLinePathChanged (PathGeometry value)

  Property changed evented handler for LinePath property.
- virtual void OnBeginCapChanged (Geometry value)

  Property changed evented handler for capped line property at the beginning of the LinePath.
- virtual void OnEndCapChanged (Geometry value)

  Property changed evented handler for capped line property at the end of the LinePath.

Statische öffentliche Attribute

- static readonly DependencyProperty StrokeProperty = Shape.StrokeProperty.AddOwner(typeof (CappedLine))

  Binding configuration for a dependecy property which is setting StrokeProperty
- static readonly DependencyProperty StrokeThicknessProperty

  Binding configuration for a dependecy property which is setting StrokeThicknessProperty
- static readonly DependencyProperty LinePathProperty

  Binding configuration for a dependecy property which is setting LinePathProperty
- static readonly DependencyProperty BeginCapProperty

  Binding configuration for a dependecy property which is setting BeginCapProperty
- static readonly DependencyProperty EndCapProperty

  Binding configuration for a dependecy property which is setting EndCapProperty

Geschützte Methoden

- override void OnRender (DrawingContext dc)

  Logic for rendering a capped line
- override Size MeasureOverride (Size availableSize)

  Overrides how size is measured

Propertys

- Brush Stroke `[get, set]`

  Property for setting and getting Stroke
- double StrokeThickness `[get, set]`

  Property for setting and getting StrokeThickness
- PathGeometry LinePath `[get, set]`

  Property for setting and getting LinePath
- Geometry BeginCap `[get, set]`

  Property for setting and getting cap at the start of the LinePath
- Geometry EndCap `[get, set]`

  Property for setting and getting cap at the end of the LinePath

6.1.1 Ausführliche Beschreibung

Class for displaying a capped line. Sources from http://blogs.msdn.com/b/mrochon/archive/2011/01/10/custo
aspx

6.1.2 Dokumentation der Elementfunktionen

6.1.2.1 override Size UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.MeasureOverride (Size *availableSize*) [protected]

Overrides how size is measured

Parameter

availableSize	Size that is available

Rückgabe

New measured size

6.1.2.2 virtual void UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.OnBeginCapChanged (Geometry *value*) [virtual]

Property changed evented handler for capped line property at the beginning of the LinePath.

Parameter

value	new Geometry value

6.1.2.3 virtual void UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.OnEndCapChanged (Geometry *value*) [virtual]

Property changed evented handler for capped line property at the end of the LinePath.

Parameter

value	new Geometry value

6.1.2.4 virtual void UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.OnLinePathChanged (PathGeometry *value*) [virtual]

Property changed evented handler for LinePath property.

Parameter

value	new PathGeometry value

6.1.2.5 override void UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.OnRender (DrawingContext *dc*) [protected]

Logic for rendering a capped line

Parameter

dc	DrawingContex of the rendering capped line

6.1.3 Dokumentation der Datenelemente

6.1.3.1 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.BeginCapProperty [static]

Initialisierung:

```
=
            DependencyProperty.Register("BeginCap", typeof (Geometry), typeof (CappedLine),
                new FrameworkPropertyMetadata(
                    null,
                    FrameworkPropertyMetadataOptions.AffectsRender,
                    BeginCapChangedCallback))
```

Binding configuration for a dependecy property which is setting BeginCapProperty

6.1.3.2 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.EndCapProperty [static]

Initialisierung:

```
=
            DependencyProperty.Register("EndCap", typeof (Geometry), typeof (CappedLine),
                new FrameworkPropertyMetadata(
                    null,
                    FrameworkPropertyMetadataOptions.AffectsRender,
                    EndCapChangedCallback))
```

Binding configuration for a dependecy property which is setting EndCapProperty

6.1.3.3 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.LinePathProperty [static]

Initialisierung:

```
=
            DependencyProperty.Register("LinePath", typeof (PathGeometry), typeof (CappedLine),
                new FrameworkPropertyMetadata(
                    null,
                    FrameworkPropertyMetadataOptions.AffectsRender,
                    LinePathChangedCallback))
```

Binding configuration for a dependecy property which is setting LinePathProperty

6.1.3.4 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.StrokeProperty = Shape.StrokeProperty.AddOwner(typeof (CappedLine)) [static]

Binding configuration for a dependecy property which is setting StrokeProperty

6.1.3.5 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.StrokeThickness↩ Property [static]

Initialisierung:

```
=
            Shape.StrokeThicknessProperty.AddOwner(typeof (CappedLine))
```

Binding configuration for a dependecy property which is setting StrokeThicknessProperty

6.1.4 Dokumentation der Propertys

6.1.4.1 Geometry UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.BeginCap [get], [set]

Property for setting and getting cap at the start of the LinePath

6.1.4.2 Geometry UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.EndCap [get], [set]

Property for setting and getting cap at the end of the LinePath

6.1.4.3 PathGeometry UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.LinePath [get],[set]

Property for setting and getting LinePath

6.1.4.4 Brush UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.Stroke [get],[set]

Property for setting and getting Stroke

6.1.4.5 double UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.StrokeThickness [get],[set]

Property for setting and getting StrokeThickness

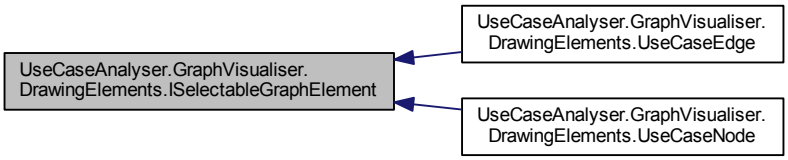
Die Dokumentation für diese Klasse wurde erzeugt aufgrund der Datei:

- DrawingElements/CappedLine.cs

6.2 UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement Schnittstellenreferenz

An interface for classes that contain a GraphElement and should be selectable via the visualisation.

Klassendiagramm für UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement:



Öffentliche Methoden

- void Select ()

  Change selection state to selected
- void Unselect ()

  Reset selection state
- void ChangeSelection ()

  Toggle selection state

Propertys

- bool Selected [get]

  Check if object is selected
- IGraphElement CurrentElement [get]

  Get reference to IGraphElement if selected

6.2.1 Ausführliche Beschreibung

An interface for classes that contain a GraphElement and should be selectable via the visualisation.

6.2.2 Dokumentation der Elementfunktionen

6.2.2.1 void UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.ChangeSelection ( )

Toggle selection state

Implementiert in UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge und UseCaseAnalyser.↩ GraphVisualiser.DrawingElements.UseCaseNode.

6.2.2.2 void UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.Select ( )

Change selection state to selected

Implementiert in UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge und UseCaseAnalyser.↩ GraphVisualiser.DrawingElements.UseCaseNode.

6.2.2.3 void UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.Unselect ( )

Reset selection state

Implementiert in UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge und UseCaseAnalyser.↩ GraphVisualiser.DrawingElements.UseCaseNode.

6.2.3 Dokumentation der Propertys

6.2.3.1 IGraphElement UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.CurrentElement [get]

Get reference to IGraphElement if selected

6.2.3.2 bool UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.Selected [get]

Check if object is selected

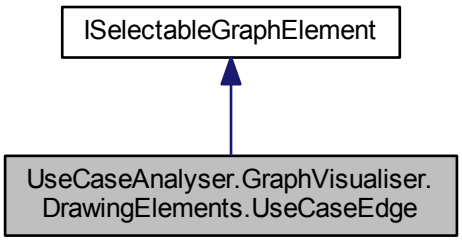
Die Dokumentation für diese Schnittstelle wurde erzeugt aufgrund der Datei:

- DrawingElements/ISelectableGraphElement.cs

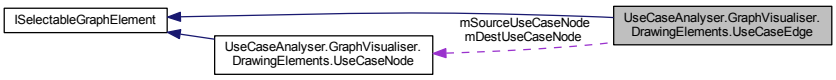
6.3 UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge Klassenreferenz

Class for displaying a edge as a Bezier curve within a UseCaseGraph. On selection line color changes. It contains the edge to display as a reference.

Klassendiagramm für UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge:



Zusammengehörigkeiten von UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge:



Öffentliche Typen

- enum DockedStatus { DockedStatus.Top, DockedStatus.Bottom, DockedStatus.Left, DockedStatus.Right }

  Docked status of CappedLine on UseCaseNode
- enum EdgeProcessType { EdgeProcessType.ForwardEdge, EdgeProcessType.BackwardEdge }

  Type of UseCaseEdge which will be displayed

Öffentliche Methoden

- UseCaseEdge (UseCaseNode source, UseCaseNode dest, IEdge edge)

  Creates a new instance of an visual presenter of an UseCaseEdge
- void RecalcBezier ()

  Recaclulation of the Bezier curve and redraw the Edge
- void SetDrawingBrush (Brush newBrush)

  Set new brush color to this Edge
- void Select ()

  Select this element
- void Unselect ()

  Unselect this element
- void ChangeSelection ()

  Switch selection status of this element

Öffentliche Attribute

- readonly UseCaseNode mDestUseCaseNode

Reference of destination visual UseCaseNode

- readonly UseCaseNode mSourceUseCaseNode

  Reference of source visual UseCaseNode

Propertys

- IEdge Edge `[get]`

  Reference to the Edge in the UseCaseGraph
- bool Selected `[get]`

  Selected status of the element
- DockedStatus DockPosSourceElement `[get, set]`

  Dock position of CappedLine on the source Element
- DockedStatus DockPosDestElement `[get, set]`

  Dock Position Capped Line on the Destination Element
- EdgeProcessType ProcessType `[get, set]`

  Process type of Edge which will be displayed
- IGraphElement CurrentElement `[get]`

  Reference to the element in the UseCaseGraph

6.3.1 Ausführliche Beschreibung

Class for displaying a edge as a Bezier curve within a UseCaseGraph. On selection line color changes. It contains the edge to display as a reference.

6.3.2 Dokumentation der Aufzählungstypen

6.3.2.1 enum UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.DockedStatus

Docked status of CappedLine on UseCaseNode

Aufzählungswerte

Top UseCaseEdge is visualised on top of UseCaseNode

Bottom UseCaseEdge is visualised on bottom of UseCaseNode

Left UseCaseEdge is visualised on the left of UseCaseNode

Right UseCaseEdge is visualised on the right of UseCaseNode

6.3.2.2 enum UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.EdgeProcessType

Type of UseCaseEdge which will be displayed

Aufzählungswerte

ForwardEdge UseCaseEdge is a forwarding edge

BackwardEdge UseCaseEdge is a backwarding edge (UseCaseNode with type JumpNode as source)

6.3.3 Beschreibung der Konstruktoren und Destruktoren

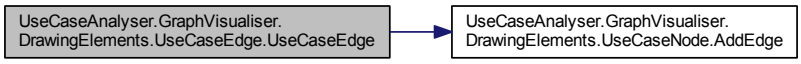
6.3.3.1 UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.UseCaseEdge (UseCaseNode *source*, UseCaseNode *dest*, IEdge *edge*)

Creates a new instance of an visual presenter of an UseCaseEdge

Parameter

source	Source UseCaseNode
dest	Destination UseCaseNode
edge	Reference to the Edge in the Graph

Hier ist ein Graph, der zeigt, was diese Funktion aufruft:



6.3.4 Dokumentation der Elementfunktionen

6.3.4.1 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.ChangeSelection ( )

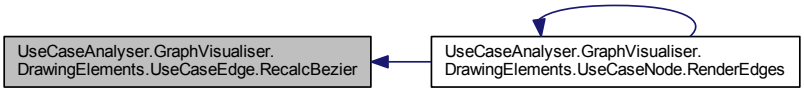
Switch selection status of this element

Implementiert UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.

6.3.4.2 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.RecalcBezier ( )

Recaclulation of the Bezier curve and redraw the Edge

Hier ist ein Graph der zeigt, wo diese Funktion aufgerufen wird:



6.3.4.3 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.Select ( )

Select this element

Implementiert UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.

6.3.4.4 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.SetDrawingBrush (Brush *newBrush*)

Set new brush color to this Edge

Parameter

newBrush	future color which will be used for drawing

6.3.4.5 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.Unselect ( )

Unselect this element

Implementiert UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.

6.3.5 Dokumentation der Datenelemente

6.3.5.1 readonly UseCaseNode UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.mDestUseCaseNode

Reference of destination visual UseCaseNode

6.3.5.2 readonly UseCaseNode UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.mSourceUseCaseNode

Reference of source visual UseCaseNode

6.3.6 Dokumentation der Propertys

6.3.6.1 IGraphElement UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.CurrentElement [get]

Reference to the element in the UseCaseGraph

6.3.6.2 DockedStatus UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.DockPosDestElement [get], [set], [package]

Dock Position Capped Line on the Destination Element

6.3.6.3 DockedStatus UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.DockPosSourceElement [get], [set], [package]

Dock position of CappedLine on the source Element

6.3.6.4 IEdge UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.Edge [get]

Reference to the Edge in the UseCaseGraph

6.3.6.5 EdgeProcessType UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.ProcessType [get], [set], [package]

Process type of Edge which will be displayed

6.3.6.6 bool UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.Selected [get]

Selected status of the element

Die Dokumentation für diese Klasse wurde erzeugt aufgrund der Datei:

- DrawingElements/UseCaseEdge.xaml.cs

6.4 UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser Klassenreferenz

Class for displaying a UseCaseGraph element. It offers possibilities to select a single GraphElement while setting a dependency property GraphElement. Furthermore the user has the option to move all nodes.

Öffentliche Methoden

- UseCaseGraphVisualiser ()

  UseCaseGraphVisualiser default constructor
- void RedrawGraph ()

  redraws the current usecasegraph –> nodes + edges are redrawn and the cache positon will be deleted

Statische öffentliche Attribute

- static readonly DependencyProperty UseCaseProperty

  Binding configuration for a dependecy property which is setting UseCaseGraph to display
- static readonly DependencyProperty ScenarioProperty

  Binding configuration for a dependecy property which is setting a scenario graph (which will be highlighted by UseCaseGraphVisualiser)
- static readonly DependencyProperty GraphElementProperty

  Binding configuration for a dependecy property which is setting the currently selected IGraphElement (INode/IEdge/IGraph) in UseCaseGraphVisualiser

Propertys

- IGraph Scenario `[get, set]`

  Dependency property for currently selected scenario graph
- IGraphElement GraphElement `[get, set]`

  Dependency property for currently selected IGraphElement
- UseCaseGraph UseCase `[get, set]`

  Dependency property for use case graph that should be visualised

6.4.1 Ausführliche Beschreibung

Class for displaying a UseCaseGraph element. It offers possibilities to select a single GraphElement while setting a dependency property GraphElement. Furthermore the user has the option to move all nodes.

6.4.2 Beschreibung der Konstruktoren und Destruktoren

6.4.2.1 UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.UseCaseGraphVisualiser ( )

UseCaseGraphVisualiser default constructor

6.4.3 Dokumentation der Elementfunktionen

6.4.3.1 void UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.RedrawGraph ( )

redraws the current usecasegraph –> nodes + edges are redrawn and the cache positon will be deleted

6.4.4 Dokumentation der Datenelemente

6.4.4.1 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.GraphElementProperty `[static]`

Initialisierung:

```
= DependencyProperty.Register("GraphElement",
            typeof (IGraphElement), typeof (UseCaseGraphVisualiser))
```

Binding configuration for a dependecy property which is setting the currently selected IGraphElement (INode/I↩ Edge/IGraph) in UseCaseGraphVisualiser

6.4.4.2 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.ScenarioProperty [static]

Initialisierung:

```
= DependencyProperty.Register("Scenario",
            typeof (IGraph), typeof (UseCaseGraphVisualiser), new PropertyMetadata(
      ScenarioPropertyChanged))
```

Binding configuration for a dependecy property which is setting a scenario graph (which will be highlighted by UseCaseGraphVisualiser)

6.4.4.3 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.UseCaseProperty [static]

Initialisierung:

```
= DependencyProperty.Register("UseCase",
            typeof (UseCaseGraph), typeof (UseCaseGraphVisualiser), new
      PropertyMetadata(UseCasePropertyChanged))
```

Binding configuration for a dependecy property which is setting UseCaseGraph to display

6.4.5 Dokumentation der Propertys

6.4.5.1 IGraphElement UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.GraphElement [get], [set]

Dependency property for currently selected IGraphElement

6.4.5.2 IGraph UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.Scenario [get], [set]

Dependency property for currently selected scenario graph

6.4.5.3 UseCaseGraph UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.UseCase [get], [set]

Dependency property for use case graph that should be visualised

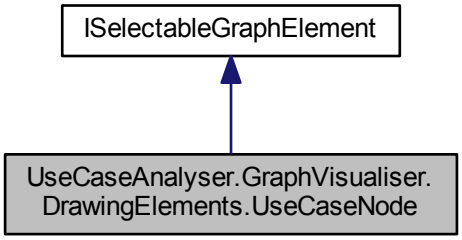
Die Dokumentation für diese Klasse wurde erzeugt aufgrund der Datei:

- UseCaseGraphVisualiser.xaml.cs

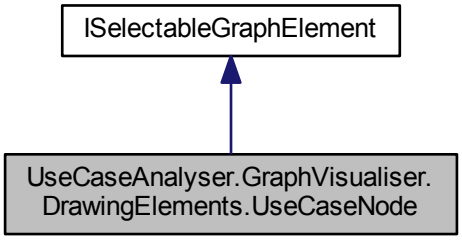
6.5 UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode Klassenreferenz

Class for displaying a node as rectangle within a UseCaseGraph. On selection border color changes. It contains the node to display as a reference.

Klassendiagramm für UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode:



Zusammengehörigkeiten von UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode:



Öffentliche Methoden

- UseCaseNode (INode node)

  Wrapper class for GraphFrameworks's INode which is used to define how a node will be displayed in UseCaseGraphVisualiser.
- void RenderEdges (UseCaseNode notRenderNode=null)

  Recursive function for rendering edges of this node by using RecalcBezier and its neighbours.
- void AddEdge (UseCaseEdge newEdge)

  Add an edge to UseCaseNode if not already contained and nodes is either starting or endpoint of the specified edge.
- int GetEdgeIndex (UseCaseEdge sourceEdge)

  Return index of specified edge corresponding to its DockedStatus.
- int GetCountOfEdges (UseCaseEdge sourceEdge)

  Counts the amount of edges in depending of the docking status
- void SetDrawingBrush (IEnumerable< IEdge > toColorEdges, Brush newBrush)

  Color for specific scenario will be set
- void Select ()

  Select this element (visualised by glowing)
- void Unselect ()

  Unselect this element (remove glow effect)

- void ChangeSelection ()

  Switch selection status of this element

Öffentliche Attribute

- readonly List< UseCaseEdge > mEdges = new List<UseCaseEdge>()

  List of UseCaseEdge that either start or end in this UseCaseNode

Propertys

- INode Node `[get]`

  Node property for GraphFrameworks INode element which is wrapped by this class.
- bool Selected `[get]`

  Property to check if UseCaseNode is marked as selected
- IGraphElement CurrentElement `[get]`

  Reference to the element in the Graph

6.5.1 Ausführliche Beschreibung

Class for displaying a node as rectangule within a UseCaseGraph. On selection border color changes. It contains the node to display as a reference.

6.5.2 Beschreibung der Konstruktoren und Destruktoren

6.5.2.1 UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.UseCaseNode (INode *node*)

Wrapper class for GraphFrameworks's INode which is used to define how a node will be displayed in UseCaseGraphVisualiser.

Parameter

node	INode object that will be wrapped by UseCaseNode

6.5.3 Dokumentation der Elementfunktionen

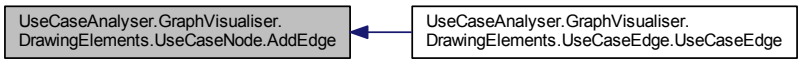
6.5.3.1 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.AddEdge (UseCaseEdge *newEdge*)

Add an edge to UseCaseNode if not already contained and nodes is either starting or endpoint of the specified edge.

Parameter

newEdge	UseCaseEgde that should be added to the UseCaseNode

Hier ist ein Graph der zeigt, wo diese Funktion aufgerufen wird:



6.5.3.2 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.ChangeSelection ( )

Switch selection status of this element

Implementiert UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.

6.5.3.3 int UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.GetCountOfEdges (UseCaseEdge *sourceEdge*)

Counts the amount of edges in depending of the docking status

Parameter

sourceEdge	Elements will be counted by the position of this element

Rückgabe

amount of Edges at the same docking status of this node

6.5.3.4 int UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.GetEdgeIndex (UseCaseEdge *sourceEdge*)

Return index of specified edge corresponding to its DockedStatus.

Parameter

sourceEdge	Edge for determine index.

Rückgabe

Number of index.

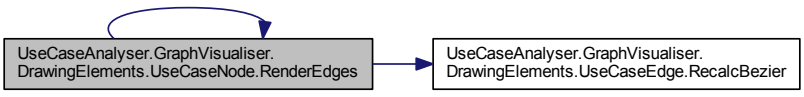
6.5.3.5 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.RenderEdges (UseCaseNode *notRenderNode* = `null`)

Recursive function for rendering edges of this node by using RecalcBezier and its neighbours.

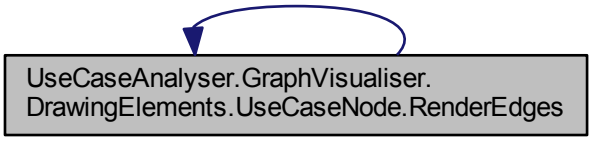
Parameter

notRenderNode	Optional parameter for use case node which prevents rendering of specified node's edges.

Hier ist ein Graph, der zeigt, was diese Funktion aufruft:



Hier ist ein Graph der zeigt, wo diese Funktion aufgerufen wird:



6.5.3.6 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.Select ( )

Select this element (visualised by glowing)

Implementiert UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.

6.5.3.7 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.SetDrawingBrush (IEnumerable< IEdge > *toColorEdges*, Brush *newBrush*)

Color for specific scenario will be set

Parameter

toColorEdges	List of Edges which will be colored
newBrush	Brush which will be used to highlite the specific scenario

6.5.3.8 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.Unselect ( )

Unselect this element (remove glow effect)

Implementiert UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.

6.5.4 Dokumentation der Datenelemente

6.5.4.1 readonly List<UseCaseEdge> UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.mEdges = new List<UseCaseEdge>()

List of UseCaseEdge that either start or end in this UseCaseNode

6.5.5 Dokumentation der Propertys

6.5.5.1 IGraphElement UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.CurrentElement [get]

Reference to the element in the Graph

6.5.5.2 INode UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.Node [get]

Node property for GraphFrameworks INode element which is wrapped by this class.

6.5.5.3 bool UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.Selected [get]

Property to check if UseCaseNode is marked as selected

Die Dokumentation für diese Klasse wurde erzeugt aufgrund der Datei:

- DrawingElements/UseCaseNode.xaml.cs

Kapitel 7

Datei-Dokumentation

7.1 DrawingElements/CappedLine.cs-Dateireferenz

Klassen

- class UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine

  Class for displaying a capped line. Sources from http://blogs.msdn.com/b/mrochon/archive/2011/01/10/custom-l aspx

Namensbereiche

- package UseCaseAnalyser.GraphVisualiser.DrawingElements

7.2 DrawingElements/ISelectableGraphElement.cs-Dateireferenz

Klassen

- interface UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement

  An interface for classes that contain a GraphElement and should be selectable via the visualisation.

Namensbereiche

- package UseCaseAnalyser.GraphVisualiser.DrawingElements

7.3 DrawingElements/UseCaseEdge.xaml.cs-Dateireferenz

Klassen

- class UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge

  Class for displaying a edge as a Bezier curve within a UseCaseGraph. On selection line color changes. It contains the edge to display as a reference.

Namensbereiche

- package UseCaseAnalyser.GraphVisualiser.DrawingElements

7.4 DrawingElements/UseCaseNode.xaml.cs-Dateireferenz

Klassen

- class UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode

  Class for displaying a node as rectangule within a UseCaseGraph. On selection border color changes. It contains the node to display as a reference.

Namensbereiche

- package UseCaseAnalyser.GraphVisualiser.DrawingElements

7.5 Properties/AssemblyInfo.cs-Dateireferenz

7.6 UseCaseGraphVisualiser.xaml.cs-Dateireferenz

Klassen

- class UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser

  Class for displaying a UseCaseGraph element. It offers possibilities to select a single GraphElement while setting a dependency property GraphElement. Furthermore the user has the option to move all nodes.

Namensbereiche

- package UseCaseAnalyser.GraphVisualiser

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