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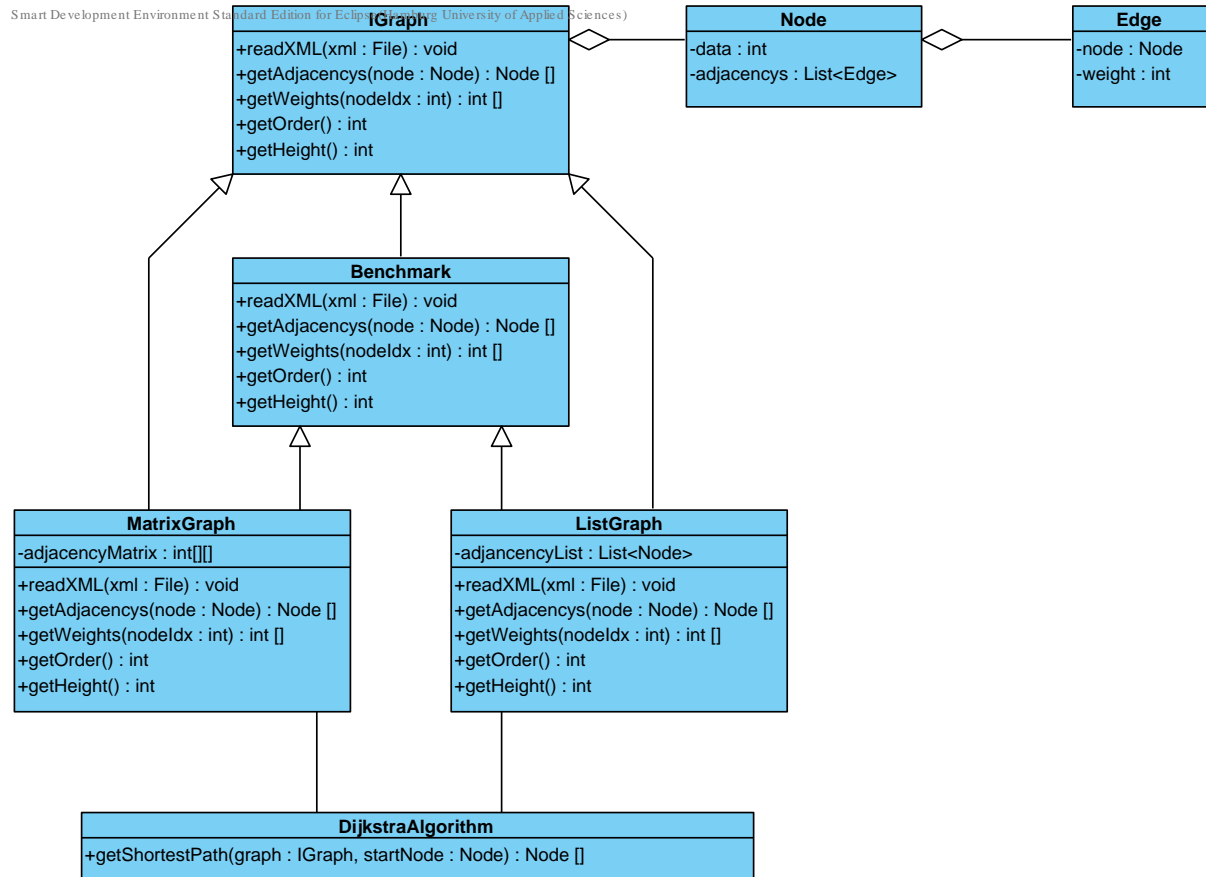
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Class Diagram

a08.Graph_Simple



Name	Value
Author	Administrator
Create Date Time	27.05.2011 12:48:56
Last Modified	29.05.2011 15:10:54
Name	a08.Graph_Simple

Summary

Name	Documentation
 IGraph	
 Node	
 Edge	
 Benchmark	
 MatrixGraph	
 ListGraph	
 DijkstraAlgorithm	


Details


IGraph

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Author	Administrator
Create Date Time	27.05.2011 12:49:20
Last Modified	29.05.2011 15:07:20

Operations

public readXML (xml : File) : void		
Parameters	xml	
	Multiplicity	Unspecified
	Author	Administrator
	Create Date Time	27.05.2011 12:50:10
	Last Modified	27.05.2011 12:57:58
	Type	File
	Direction	inout
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	27.05.2011 12:49:55	
Last Modified	27.05.2011 12:57:58	
Ordered	false	
Unique	true	
Query	false	


public getAdjacencys (node : Node) : Node		
Parameters	node	
	Multiplicity	Unspecified
	Author	Administrator
	Create Date Time	27.05.2011 12:50:45
	Last Modified	27.05.2011 12:57:58
	Type	 Node
	Direction	inout
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	27.05.2011 12:50:24	
Last Modified	27.05.2011 12:57:58	
Type Modifier	[]	
Ordered	false	
Unique	true	
Query	false	


public getWeights (nodeldx : int) : int		
Parameters	nodeldx	
	Multiplicity	Unspecified
	Author	Administrator
	Create Date Time	27.05.2011 12:51:43
	Last Modified	29.05.2011 15:07:20
	Type	 int
	Direction	inout
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	27.05.2011 12:50:45	
Last Modified	29.05.2011 15:07:20	
Type Modifier	[]	
Ordered	false	
Unique	true	
Query	false	


public getOrder () : int	
Static	false
Leaf	false
Author	Administrator
Create Date Time	27.05.2011 12:51:43
Last Modified	27.05.2011 12:57:58
Ordered	false
Unique	true
Query	false


public getHeight () : int	
Static	false
Leaf	false
Author	Administrator
Create Date Time	27.05.2011 12:51:52
Last Modified	27.05.2011 12:57:58
Ordered	false
Unique	true
Query	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Node
	Author	Administrator
	Create Date Time	27.05.2011 12:49:42
	Last Modified	27.05.2011 12:57:58
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Author	Administrator	
Create Date Time	27.05.2011 12:49:42	
Last Modified	27.05.2011 12:57:58	
Derived	false	

Unnamed Generalization	
To	 ListGraph
Author	Administrator
Create Date Time	27.05.2011 12:53:38
Last Modified	27.05.2011 12:57:58
Substitutable	false
Visibility	Unspecified


Unnamed Generalization	
To	 MatrixGraph
Author	Administrator
Create Date Time	27.05.2011 12:53:49
Last Modified	27.05.2011 12:57:58
Substitutable	false
Visibility	Unspecified

Unnamed Generalization	
To	 Benchmark
Author	Administrator
Create Date Time	27.05.2011 13:06:17
Last Modified	27.05.2011 13:07:37
Substitutable	false
Visibility	Unspecified

Node


Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Author	Administrator
Create Date Time	27.05.2011 12:49:42
Last Modified	27.05.2011 12:57:58


Attributes

private data : int			
Author	Administrator		
Create Date Time	27.05.2011 12:52:02		
Last Modified	27.05.2011 12:57:58		
Type	 int		
Getter	false	Setter	false
Has Setter	false		
Has Getter	false		
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private adjacencys : List			
Author	Administrator		
Create Date Time	27.05.2011 12:52:11		
Last Modified	27.05.2011 12:57:58		
Template Type Bind Info	N/A		
Type	List		
Getter	false	Setter	false
Has Setter	false		
Has Getter	false		
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Edge
	Author	Administrator
	Create Date Time	27.05.2011 12:49:50
	Last Modified	27.05.2011 12:57:58
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Author	Administrator	
Create Date Time	27.05.2011 12:49:50	
Last Modified	27.05.2011 12:57:58	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 IGraph
	Author	Administrator
	Create Date Time	27.05.2011 12:49:42
	Last Modified	27.05.2011 12:57:58
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	Aggregation
	Navigable	true
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Author	Administrator	
Create Date Time	27.05.2011 12:49:42	
Last Modified	27.05.2011 12:57:58	
Derived	false	

Edge


Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Author	Administrator
Create Date Time	27.05.2011 12:49:50
Last Modified	27.05.2011 12:57:58

Attributes

private node : Node			
Author	Administrator		
Create Date Time	27.05.2011 12:52:30		
Last Modified	27.05.2011 12:57:58		
Type	 Node		
Getter	false	Setter	false
Has Setter	false		
Has Getter	false		
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private weight : int			
Author	Administrator		
Create Date Time	27.05.2011 12:52:36		
Last Modified	27.05.2011 12:57:58		
Type	 int		
Getter	false	Setter	false
Has Setter	false		
Has Getter	false		
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Relationships


Unnamed Association		
From	Name	Value
	End Model Element	 Node
	Author	Administrator
	Create Date Time	27.05.2011 12:49:50
	Last Modified	27.05.2011 12:57:58
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	Aggregation
	Navigable	true
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Author	Administrator	
Create Date Time	27.05.2011 12:49:50	
Last Modified	27.05.2011 12:57:58	
Derived	false	


Benchmark

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Author	Administrator
Create Date Time	27.05.2011 12:53:07
Last Modified	29.05.2011 15:07:20

Operations

public readXML (xml : File) : void		
Parameters	xml	
	Multiplicity	Unspecified
	Author	Administrator
	Create Date Time	27.05.2011 12:50:10
	Last Modified	27.05.2011 12:57:58
	Type	File
	Direction	inout
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	27.05.2011 12:49:55	
Last Modified	27.05.2011 12:57:58	
Ordered	false	
Unique	true	
Query	false	


public getAdjacencys (node : Node) : Node		
Parameters	node	
	Multiplicity	Unspecified
	Author	Administrator
	Create Date Time	27.05.2011 12:50:45
	Last Modified	27.05.2011 12:57:58
	Type	 Node
	Direction	inout
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	27.05.2011 12:50:24	
Last Modified	27.05.2011 12:57:58	
Type Modifier	[]	
Ordered	false	
Unique	true	
Query	false	


public getWeights (nodeldx : int) : int		
Parameters	nodeldx	
	Multiplicity	Unspecified
	Author	Administrator
	Create Date Time	27.05.2011 12:51:43
	Last Modified	29.05.2011 15:07:20
	Type	 int
	Direction	inout
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	27.05.2011 12:50:45	
Last Modified	29.05.2011 15:07:20	
Type Modifier	[]	
Ordered	false	
Unique	true	
Query	false	


public getOrder () : int	
Static	false
Leaf	false
Author	Administrator
Create Date Time	27.05.2011 12:51:43
Last Modified	27.05.2011 12:57:58
Ordered	false
Unique	true
Query	false

public getHeight () : int	
Static	false
Leaf	false
Author	Administrator
Create Date Time	27.05.2011 12:51:52
Last Modified	27.05.2011 12:57:58
Ordered	false
Unique	true
Query	false

Relationships

Unnamed Generalization	
To	 MatrixGraph
Author	Administrator
Create Date Time	27.05.2011 13:07:59
Last Modified	27.05.2011 13:08:28
Substitutable	false
Visibility	Unspecified

Unnamed Generalization	
To	 ListGraph
Author	Administrator
Create Date Time	27.05.2011 13:08:03
Last Modified	27.05.2011 13:08:28
Substitutable	false
Visibility	Unspecified

Unnamed Generalization	
From	 IGraph
Author	Administrator
Create Date Time	27.05.2011 13:06:17
Last Modified	27.05.2011 13:07:37
Substitutable	false
Visibility	Unspecified

MatrixGraph


Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Author	Administrator
Create Date Time	27.05.2011 12:53:49
Last Modified	29.05.2011 15:07:20


Attributes

private adjacencyMatrix : int			
Author	Administrator		
Create Date Time	27.05.2011 12:53:58		
Last Modified	29.05.2011 15:07:20		
Type Modifier	[]		
Type	 int		
Getter	false	Setter	false
Has Setter	false		
Has Getter	false		
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Operations

public readXML (xml : File) : void		
Parameters	xml	
	Multiplicity	Unspecified
	Author	Administrator
	Create Date Time	27.05.2011 12:50:10
	Last Modified	27.05.2011 12:57:58
	Type	File
	Direction	inout
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	27.05.2011 12:49:55	
Last Modified	27.05.2011 12:57:58	
Ordered	false	
Unique	true	
Query	false	


public getAdjacencys (node : Node) : Node		
Parameters	node	
	Multiplicity	Unspecified
	Author	Administrator
	Create Date Time	27.05.2011 12:50:45
	Last Modified	27.05.2011 12:57:58
	Type	 Node
	Direction	inout
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	27.05.2011 12:50:24	
Last Modified	27.05.2011 12:57:58	
Type Modifier	[]	
Ordered	false	
Unique	true	
Query	false	


public getWeights (nodeldx : int) : int		
Parameters	nodeldx	
	Multiplicity	Unspecified
	Author	Administrator
	Create Date Time	27.05.2011 12:51:43
	Last Modified	29.05.2011 15:07:20
	Type	 int
	Direction	inout
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	27.05.2011 12:50:45	
Last Modified	29.05.2011 15:07:20	
Type Modifier	[]	
Ordered	false	
Unique	true	
Query	false	


public getOrder () : int	
Static	false
Leaf	false
Author	Administrator
Create Date Time	27.05.2011 12:51:43
Last Modified	27.05.2011 12:57:58
Ordered	false
Unique	true
Query	false

public getHeight () : int	
Static	false
Leaf	false
Author	Administrator
Create Date Time	27.05.2011 12:51:52
Last Modified	27.05.2011 12:57:58
Ordered	false
Unique	true
Query	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 DijkstraAlgorithm
	Author	Administrator
	Create Date Time	27.05.2011 13:11:41
	Last Modified	27.05.2011 13:12:03
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Author	Administrator	
Create Date Time	27.05.2011 13:11:41	
Last Modified	27.05.2011 13:12:03	
Derived	false	

Unnamed Generalization	
From	 IGraph
Author	Administrator
Create Date Time	27.05.2011 12:53:49
Last Modified	27.05.2011 12:57:58
Substitutable	false
Visibility	Unspecified

Unnamed Generalization	
From	 Benchmark
Author	Administrator
Create Date Time	27.05.2011 13:07:59
Last Modified	27.05.2011 13:08:28
Substitutable	false
Visibility	Unspecified

ListGraph


Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Author	Administrator
Create Date Time	27.05.2011 12:53:38
Last Modified	29.05.2011 15:07:20


Attributes

private adjacencyList : List			
Author	Administrator		
Create Date Time	27.05.2011 12:54:17		
Last Modified	27.05.2011 12:57:58		
Template Type Bind Info	N/A		
Type	List		
Getter	false	Setter	false
Has Setter	false		
Has Getter	false		
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Operations

public readXML (xml : File) : void		
Parameters	xml	
	Multiplicity	Unspecified
	Author	Administrator
	Create Date Time	27.05.2011 12:50:10
	Last Modified	27.05.2011 12:57:58
	Type	File
	Direction	inout
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	27.05.2011 12:49:55	
Last Modified	27.05.2011 12:57:58	
Ordered	false	
Unique	true	
Query	false	


public getAdjacencys (node : Node) : Node		
Parameters	node	
	Multiplicity	Unspecified
	Author	Administrator
	Create Date Time	27.05.2011 12:50:45
	Last Modified	27.05.2011 12:57:58
	Type	 Node
	Direction	inout
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	27.05.2011 12:50:24	
Last Modified	27.05.2011 12:57:58	
Type Modifier	[]	
Ordered	false	
Unique	true	
Query	false	


public getWeights (nodeldx : int) : int		
Parameters	nodeldx	
	Multiplicity	Unspecified
	Author	Administrator
	Create Date Time	27.05.2011 12:51:43
	Last Modified	29.05.2011 15:07:20
	Type	 int
	Direction	inout
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	27.05.2011 12:50:45	
Last Modified	29.05.2011 15:07:20	
Type Modifier	[]	
Ordered	false	
Unique	true	
Query	false	


public getOrder () : int	
Static	false
Leaf	false
Author	Administrator
Create Date Time	27.05.2011 12:51:43
Last Modified	27.05.2011 12:57:58
Ordered	false
Unique	true
Query	false

public getHeight () : int	
Static	false
Leaf	false
Author	Administrator
Create Date Time	27.05.2011 12:51:52
Last Modified	27.05.2011 12:57:58
Ordered	false
Unique	true
Query	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 DijkstraAlgorithm
	Author	Administrator
	Create Date Time	27.05.2011 13:11:54
	Last Modified	27.05.2011 13:12:03
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Author	Administrator	
Create Date Time	27.05.2011 13:11:54	
Last Modified	27.05.2011 13:12:03	
Derived	false	



Unnamed Generalization	
From	 IGraph
Author	Administrator
Create Date Time	27.05.2011 12:53:38
Last Modified	27.05.2011 12:57:58
Substitutable	false
Visibility	Unspecified

Unnamed Generalization	
From	 Benchmark
Author	Administrator
Create Date Time	27.05.2011 13:08:03
Last Modified	27.05.2011 13:08:28
Substitutable	false
Visibility	Unspecified


DijkstraAlgorithm


Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Author	Administrator
Create Date Time	27.05.2011 13:09:59
Last Modified	29.05.2011 15:10:54

Operations

public getShortestPath (graph : IGraph, startNode : Node) : Node		
Parameters	graph	
	Multiplicity	Unspecified
	Author	Martin
	Create Date Time	29.05.2011 15:06:45
	Last Modified	29.05.2011 15:10:54
	Type	 IGraph
	Direction	inout
	startNode	
	Multiplicity	Unspecified
	Author	Administrator
	Create Date Time	27.05.2011 13:10:49
	Last Modified	29.05.2011 15:10:54
	Type	 Node
	Direction	inout
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	27.05.2011 13:10:16	
Last Modified	29.05.2011 15:10:54	
Type Modifier	[]	
Ordered	false	
Unique	true	
Query	false	

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 MatrixGraph
	Author	Administrator
	Create Date Time	27.05.2011 13:11:41
	Last Modified	27.05.2011 13:12:03
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Author	Administrator	
Create Date Time	27.05.2011 13:11:41	
Last Modified	27.05.2011 13:12:03	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 ListGraph
	Author	Administrator
	Create Date Time	27.05.2011 13:11:54
	Last Modified	27.05.2011 13:12:03
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Author	Administrator	
Create Date Time	27.05.2011 13:11:54	
Last Modified	27.05.2011 13:12:03	
Derived	false	