BenchmarkResultSetModel
(es::uma::pfc::is::bench::algorithms::results::treemodel)

TreeResultModel
(es::uma::pfc::is::bench::algorithms::results::treemodel)
-name : StringProperty
-date : StringProperty
-input : StringProperty
-output : StringProperty
-executionTime : LongProperty
-statsFile : StringProperty
-log : StringProperty
+TreeResultModel(name : String)
+TreeResultModel()
+nameProperty() : StringProperty
+setName(name : String) : void
+dateProperty() : StringProperty
+setDate(date : String) : void
+setDate(date : Date) : void
+inputProperty() : StringProperty
+setInput(input : String) : void
+outputProperty() : StringProperty
+setOutput(output : String) : void
+logProperty() : StringProperty
+setLog(log : String) : void
+statsFileProperty() : StringProperty
+setStatsFile(statsFile : String) : void
+executionTimeProperty() : LongProperty
+setExecutionTime(time : Long) : void
+isAlgorithmResult() : boolean

TreeBenchmarkResultModel
(es::uma::pfc::is::bench::algorithms::results::treemodel)
<<Property>> -benchmarkResult : BenchmarkResult
+TreeBenchmarkResultModel(result : BenchmarkResult)

TreeAlgorithmResultModel
(es::uma::pfc::is::bench::algorithms::results::treemodel)
<<Property>> -algorithmresult : AlgorithmResult
+TreeAlgorithmResultModel(result : AlgorithmResult)

AlgorithmResult
<<Property>> -inputFile : String
<<Property>> -outputFile : String
<<Property>> -logFile : String
<<Property>> -size : Integer
<<Property>> -cardinality : Integer
<<Property>> -executionTime : long
<<Property>> -algorithmInfo : AlgorithmInfo
+AlgorithmResult()
+AlgorithmResult(inputFile : String, outputFile : String, algorithmInfo : AlgorithmInfo)
+AlgorithmResult(inputFile : String, outputFile : String, algorithm : Algorithm)

ResultsModel
-df : SimpleDateFormat = new SimpleDateFormat("dd/MM/yyyy HH:mm:SS")
<<Property>> -allResults : BenchmarkResultSet
+ResultsModel()
+getBenchmarkNode(resultSet : BenchmarkResultSet) : TreeResultModel
+getBenchmarkResultNode(result : BenchmarkResult) : TreeResultModel
+getAlgorithmResultNode(result : AlgorithmResult) : TreeResultModel

BenchmarkResultSet
<<Property>> -name : String
<<Property>> -results : BenchmarkResult
+BenchmarkResultSet()

ResultsController
(es::uma::pfc::is::bench::algorithms::results)
-rootPane : AnchorPane
-statsTitledPane : TitledPane
-tableResults : TreeTableView<TreeResultModel>
-tableStatistics : TableView
-nameColumn : TreeTableColumn
-timeColumn : TreeTableColumn
-inputColumn : TreeTableColumn
-outputColumn : TreeTableColumn
-model : ResultsModel
+initialize(url : URL, rb : ResourceBundle) : void
#initView() : void
#initModel() : void
#initListeners() : void
#modelToView() : void
#getRootPane() : Pane
#reload() : void
#clear() : void
#showStatistics(statisticsFile : String) : void
+handleNewResult(event : NewResultsEvent) : void

ResultsPersistence
-me : ResultsPersistence
-ResultsPersistence()
+get() : ResultsPersistence
+save(result : BenchmarkResult, path : String) : void
+getResults(benchmark : Benchmark) : BenchmarkResultSet

<<viewpoint>>
Results.fxml
+tableResults : TreeTableView<TreeResultModel>
+tableStatistics : TableView
+nameColumn : TreeTableColumn
+timeColumn : TreeTableColumn
+inputColumn : TreeTableColumn
+outputColumn : TreeTableColumn

ResultsBean
(es::uma::pfc::is::bench::business)
+ResultsBean()
+save(result : BenchmarkResult, path : String) : void
+getAllResults(path : String) : List <BenchmarkResultSet>

<<Singleton>>
BenchmarksPersistence
-me : BenchmarksPersistence
+update(benchmark : Benchmark) : void
+getBenchmarks(workspacePath : String) : Benchmarks
+insert(algorithms : Algorithms) : void
-BenchmarksPersistence()
+get() : BenchmarksPersistence
+insert(algorithm : AlgorithmInfo) : void

Summary

Name	Description
Results.fxml	Results view.
ResultsController	Results view controller.
ResultsModel	Results view model.
TreeResultModel	Results tree table view model. Represents a row of the results table.
TreeBenchmarkResultModel	Model for benchmark result node.
TreeAlgorithmResultModel	Model for algorithm result nodes.
BenchmarkResultSetModel	Benchmark result set tree node model.
AlgorithmResult	Algorithm result info.
BenchmarkResultSet	Collection of benchmark results.
ResultsBean	Results bean.
ResultsPersistence	Class for the read and write results to/from files.
BenchmarksPersistence	Persists the benchmarks into an XML file entities using JAXB. The details can be found in the *Registrar Benchmarks* diagram class.

Details

Results.fxml

Name	Value
Visibility	public
Stereotypes	viewpoint

Attributes

public tableResults : javafx.scene.control.TreeTableView			
Description	Table which contains the results registered in the current workspace, with a tree hierarchy.		
Type	javafx.scene.control.TreeTableView		
Getter	false	Setter	false
Multiplicity	1		

public tableStatistics : TableView			
Description	Table which contains the statistics of the results registered in the current workspace.		
Type	javafx.scene.control.TableView		
Getter	false	Setter	false
Multiplicity	1		

ResultsController

Name	Value
Description	Results view controller.
Visibility	public

Attributes

private rootPane : javafx.scene.layout.AnchorPane	
Description	Root pane.

Type	javafx.scene.layout.AnchorPane		
Getter	false	Setter	false
Multiplicity	1		
Stereotypes	FXML		

private statsTiltedPane : javafx.scene.control.TitledPane

Description	Pane which contains the statistics table.		
Type	javafx.scene.control.TitledPane		
Getter	false	Setter	false
Multiplicity	1		
Stereotypes	FXML		

private tableResults : javafx.scene.control.TreeTableView

Description	Table which contains the benchmarks execution results in a tree hirerchachy.		
Type	javafx.scene.control.TreeTableView		
Getter	false	Setter	false
Multiplicity	1		
Stereotypes	FXML		

private tableStatistics : javafx.scene.control.TableView

Type	javafx.scene.control.TableView		
Getter	false	Setter	false
Multiplicity	1		
Stereotypes	FXML		

private nameColumn : javafx.scene.control.TreeTableColumn

Type	javafx.scene.control.TreeTableColumn		
Getter	false	Setter	false
Multiplicity	1		
Stereotypes	FXML		

private timeColumn : javafx.scene.control.TreeTableColumn			
Type	javafx.scene.control.TreeTableColumn		
Getter	false	Setter	false
Multiplicity	1		
Stereotypes	FXML		

private inputColumn : javafx.scene.control.TreeTableColumn			
Type	javafx.scene.control.TreeTableColumn		
Getter	false	Setter	false
Derived	false		
Multiplicity	1		
Stereotypes	FXML		

private outputColumn : javafx.scene.control.TreeTableColumn			
Type	javafx.scene.control.TreeTableColumn		
Getter	false	Setter	false
Multiplicity	1		
Stereotypes	FXML		

private model : ResultsModel			
Description	Results view model.		
Type	ResultsModel		
Getter	false	Setter	false
Multiplicity	1		

Operations

protected getRootPane () : javafx.scene.layout.Pane	
Description	Root pane.
Return Type Description	Pane.

public initialize (url : java.net.URL, rb : java.util.ResourceBundle) : void		
	url	
	Description	URL of the view.
	Multiplicity	1
	Type	java.net.URL
	Direction	inout
	rb	
	Description	Resource bundle.
	Multiplicity	1
	Type	java.util.ResourceBundle
	Direction	inout
Description	Initializes the view.	

protected initView () : void	
Description	Initializes the results table.
Upper	1
Exceptions	IOException

protected initModel () : void	
Description	Initializes the model.

protected initListeners () : void	
Description	Initializes the listeners.

protected modelToView () : void	
Description	Loads the model data into the results table.

protected reload () : void	
Description	Reloads the view and the model.

protected clear () : void	
Description	Clear the tables.

protected showStatistics (statisticsFile : String) : void		
Parameters	**statisticsFile**	
	Description	Statistics file path.
	Multiplicity	1
	Type	🟢 String
	Direction	inout
Description	Shows the result statistics into a table.	

public handleNewResult (event : NewResultsEvent) : void		
Parameters	**event**	
	Description	Event.
	Multiplicity	1
	Type	📄 NewResultsEvent
	Direction	inout
Description	Handles the NewResultsEvent published by Eventbus and reload the view and the model.	

📄 ResultsModel

Name	Value
Description	Results view model.
Visibility	public

Attributes

private df : java.text.SimpleDateFormat			
Description	Date formatter for date column values.		
Initial Value	new SimpleDateFormat("dd/MM/yyyy HH:mm:SS")		
Type	java.text.SimpleDateFormat		
Getter	false	Setter	false
Multiplicity	1		

private allResults : BenchmarkResultSet			
Description	All results.		
Stereotypes	Property		
Type	BenchmarkResultSet		
Getter	true	Setter	true
Multiplicity	0..*		

Operations

public ResultsModel ()	
Description	Constructor.

public getBenchmarkNode (resultSet : BenchmarkResultSet) : TreeResultModel		
Parameters	**resultSet**	
	Description	Benchmark result set.
	Multiplicity	1
	Type	BenchmarkResultSet
	Direction	inout
Description	Returns a Benchmark node with a result set values passed by parameter.	
Return Type Description	Benchmark node.	

public getBenchmarkResultNode (result : es.uma.pfc.is.bench.domain.BenchmarkResult) : TreeResultModel		
Parameters	**result**	
	Description	Benchmark result.
	Multiplicity	1
	Type	es.uma.pfc.is.bench.domain.BenchmarkResult
	Direction	inout
Description	Creates a tree node with a benchmark result values.	
Return Description Type	A tree node with a benchmark result values.	

public getAlgorithmResultNode (result : AlgorithmResult) : TreeResultModel		
Parameters	**result**	
	Description	Algorithm execution result.
	Multiplicity	1
	Type	AlgorithmResult
	Direction	inout
Description	Creates a tree node with an algorithm execution result values.	
Return Type Description	A tree node with a algorithm result values.	

TreeResultModel

Name	Value
Description	Results tree table view model. Represents a row of the results table.
Visibility	public

Attributes

private name : javafx.beans.property.StringProperty			
Description	Name column binding property.		
Type	javafx.beans.property.StringProperty		
Getter	false	Setter	false
Multiplicity	1		

private date : javafx.beans.property.StringProperty			
Description	Date column binding property.		
Type	javafx.beans.property.StringProperty		
Getter	false	Setter	false
Multiplicity	1		

private input : javafx.beans.property.StringProperty		
Description	Input column binding property.	
Type	javafx.beans.property.StringProperty	
Getter	false	Setter	false
Multiplicity	1	

private output : javafx.beans.property.StringProperty		
Description	Output column binding property.	
Type	javafx.beans.property.StringProperty	
Getter	false	Setter	false
Multiplicity	1	

private executionTime : javafx.beans.property.LongProperty		
Description	Execution time column binding property.	
Type	javafx.beans.property.LongProperty	
Getter	false	Setter	false
Multiplicity	1	

private statsFile : javafx.beans.property.StringProperty		
Description	Statistics file binding property.	
Type	javafx.beans.property.StringProperty	
Getter	false	Setter	false
Multiplicity	1	

private log : javafx.beans.property.StringProperty		
Description	Log file binding property.	
Type	javafx.beans.property.StringProperty	
Getter	false	Setter	false
Multiplicity	1	

Operations

public TreeResultModel (name : String)		
Parameters	**name**	
	Description	Name.
	Multiplicity	1
	Type	⬤ String
	Direction	inout
Description	Constructor.	

public TreeResultModel ()	
Description	Constructor.

public nameProperty () : javafx.beans.property.StringProperty	
Description	Returns the name column binding property.
Return Type Description	The name column binding property.

public setName (name : String) : void		
Parameters	**name**	
	Description	Name.
	Multiplicity	1
	Type	⬤ String
	Direction	inout
Description	Establishes the name column value.	

public dateProperty () : javafx.beans.property.StringProperty	
Description	Returns the date column binding property.
Return Type Description	The date column binding property.

public inputProperty () : javafx.beans.property.StringProperty	
Description	Returns the input column binding property.
Return Type Description	The input column binding property..

public setInput (input : String) : void		
Parameters	**output**	
	Description	Input.
	Multiplicity	1
	Type	◯ String
	Direction	inout
Description	Establishes the input column value.	

public setDate (date : String) : void		
Parameters	**date**	
	Description	Date string.
	Multiplicity	1
	Type	◯ String
	Direction	inout
Description	Establishes the date column value from a string value.	

public setDate (date : java.util.Date) : void		
Parameters	**date**	
	Description	Date.
	Multiplicity	1
	Type	java.util.Date
	Direction	inout
Description	Establishes the date with the format "dd/MM/yyyy HH:mm:SS".	

public outputProperty () : javafx.beans.property.StringProperty	
Description	Returns the output column binding property.
Return Type Description	The output column binding property..

public logProperty () : javafx.beans.property.StringProperty	
Description	Returns the log binding property.
Return Type Description	The log binding property.

public setOutput (output : String) : void

Parameters	output	
	Description	Output.
	Multiplicity	1
	Type	🟢 String
	Direction	inout
Description	Establishes the output column value	

public setLog (log : String) : void

Parameters	log	
	Description	Log path.
	Multiplicity	1
	Type	🟢 String
	Direction	inout
Description	Establishes the execution log path.	

public statsFileProperty () : javafx.beans.property.StringProperty

Description	Returns the statistics file binding property.
Return Type Description	The statistics file binding property..

public isAlgorithmResult () : boolean

Description	If the row is an algorithm result.
Return Type Description	`true` if is an algorithm result, `false` otherwise.

public setStatsFile (statsFile : String) : void

Parameters	statsFile	
	Description	Statistics file path.
	Multiplicity	1
	Type	🟢 String
	Direction	inout
Description	Establishes the statistics file path.	

public executionTimeProperty () : javafx.beans.property.LongProperty	
Description	Returns the execution time column binding property.
Return Type Description	The execution time column binding property..

public setExecutionTime (time : Long) : void		
Parameters	**time**	
	Description	Execution time.
	Multiplicity	1
	Type	Long
	Direction	inout
Description	Establishes the execution time.	

TreeBenchmarkResultModel

Name	Value
Description	Model for benchmark result node.
Visibility	public

Attributes

private benchmarkResult : BenchmarkResult			
Description	Benchmark result.		
Stereotypes	Property		
Type	BenchmarkResult		
Getter	true	Setter	false
Multiplicity	1		

Operations

public TreeBenchmarkResultModel (result : es.uma.pfc.is.bench.domain.BenchmarkResult)		
Parameters	**result**	
	Description	Benchmark result.
	Multiplicity	1
	Type	es.uma.pfc.is.bench.domain.BenchmarkResult
	Direction	inout
Description	Constructor. Initializes the node with a benchmark result values.	

TreeAlgorithmResultModel

Name	Value
Description	Model for algorithm result nodes.
Visibility	public

Attributes

private algorithmresult : AlgorithmResult			
Description	Algorithm result.		
Stereotypes	Property		
Type	AlgorithmResult		
Getter	true	Setter	false
Derived	false		
Multiplicity	1		

Operations

public TreeAlgorithmResultModel (result : AlgorithmResult)		
Parameters	**result**	
	Description	Algorihtm result.
	Multiplicity	1
	Type	AlgorithmResult
	Direction	inout
Description	Constructor.	

BenchmarkResultSetModel

Name	Value
Description	Benchmark result set tree node model.
Visibility	public

BenchmarkResultSet

Name	Value
Description	Collection of benchmark results.
Visibility	public

Operations

public BenchmarkResultSet ()
Description	Constructor.

Attributes

private name : String			
Description	Benchmark name.		
Stereotypes	Property		
Type	⬤ String		
Getter	true	Setter	true
Multiplicity	1		

private results : BenchmarkResult			
Description	Benchmark results.		
Stereotypes	Property		
Type	▤ BenchmarkResult		
Getter	true	Setter	true
Multiplicity	0..*		

▤ AlgorithmResult

Name	Value
Description	Algorithm result info.
Visibility	public

Attributes

private inputFile : String			
Description	Implicational system input file.		
Stereotypes	Property		
Type	⬤ String		
Getter	true	Setter	false
Multiplicity	1..*		

private outputFile : String		
Description	Implicational system output file.	
Stereotypes	Property	
Type	⬤ String	
Getter	true	Setter	false
Multiplicity	1	

private logFile : String		
Description	Log file.	
Stereotypes	Property	
Type	⬤ String	
Getter	true	Setter	true
Multiplicity	1	

private size : Integer		
Description	Implicational System size.	
Stereotypes	Property	
Type	Integer	
Getter	true	Setter	false
Multiplicity	1	

private cardinality : Integer		
Description	Implicational System cardinality.	
Stereotypes	Property	
Type	Integer	
Getter	true	Setter	false
Multiplicity	1	

private executionTime : long			
Description	Execution time.		
Stereotypes	Property		
Type	⬤ long		
Getter	true	Setter	true
Multiplicity	1		

private algorithmInfo : AlgorithmInfo			
Description	Info of the executed algorithm.		
Stereotypes	Property		
Type	📄 AlgorithmInfo		
Getter	true	Setter	false
Multiplicity	1		

Operations

public AlgorithmResult ()	
Description	Constructor.

public AlgorithmResult (inputFile : String, outputFile : String, algorithm : Algorithm)		
Parameters	**inputFile**	
	Description	Input system file.
	Multiplicity	1
	Type	⬤ String
	Direction	inout
	outputFile	
	Description	Output system file.
	Multiplicity	1
	Type	⬤ String
	Direction	inout
	algorithm	
	Description	Algorithm.
	Multiplicity	1

public AlgorithmResult (inputFile : String, outputFile : String, algorithm : Algorithm)		
	Type	Algorithm
	Direction	inout
Description	Constructor.	

public AlgorithmResult (inputFile : String, outputFile : String, algorithmInfo : AlgorithmInfo)		
Parameters	**inputFile**	
	Description	Input system file.
	Multiplicity	1
	Type	String
	Direction	inout
	outputFile	
	Description	Output system file.
	Multiplicity	1
	Type	String
	Direction	inout
	algorithmInfo	
	Description	Algorithm info.
	Multiplicity	1
	Type	AlgorithmInfo
	Direction	inout
Description	Constructor.	

ResultsBean

Name	Value
Description	Logic for reads and insert benchmark results in files.
Visibility	public

Attributes

private benchPersistence : BenchmarksPersistence			
Description	Benchmarks persistence.		
Type	BenchmarksPersistence		
Getter	false	Setter	false
Multiplicity	1		

private resultsPersistence : ResultsPersistence			
Description	Results persistence.		
Type	ResultsPersistence		
Getter	false	Setter	false
Multiplicity	1		

Operations

public ResultsBean ()	
Description	Constructor.

public save (result : es.uma.pfc.is.bench.domain.BenchmarkResult, path : String) : void		
Parameters	**result**	
	Description	Benchmark result.
	Multiplicity	1
	Type	es.uma.pfc.is.bench.domain.BenchmarkResult
	Direction	inout
	path	
	Description	Directory of results.xml.
	Multiplicity	1
	Type	String
	Direction	inout
Description	Saves a benchmark result in results.xml file.	

public getAllResults (path : String) : java.util.List		
Parameters	**path**	
	Description	Path of registered benchmarks.
	Multiplicity	1
	Type	⬤ String
	Direction	inout
Description	Returns all saved results of the registered benchmarks in the path.	
Return Type Description	Results saved.	

⬛ ResultsPersistence

Name	Value
Description	Class for the read and write results to/from files.
Visibility	public

Attributes

private me : ResultsPersistence			
Description	Single instance.		
Type	⬛ ResultsPersistence		
Getter	false	Setter	false
Multiplicity	1		

Operations

private ResultsPersistence ()	
Description	Constructor.

public get () : ResultsPersistence	
Description	Gets a single instance of ResultsPersistence.
Return Type Description	ResultsPersistence single instance.

public getResults (benchmark : Benchmark) : BenchmarkResultSet		
Parameters	**benchmark**	
	Description	Benchmark.
	Multiplicity	1
	Type	Benchmark
	Direction	inout
Description	Returns a benchmark's saved results.	
Return Type Description	Benchmark's saved results. null if the results not exists.	

public save (result : es.uma.pfc.is.bench.domain.BenchmarkResult, path : String) : void		
Parameters	**result**	
	Description	Benchmark result to save.
	Multiplicity	1
	Type	es.uma.pfc.is.bench.domain.BenchmarkResult
	Direction	inout
	path	
	Description	Results file directory path.
	Multiplicity	1
	Type	String
	Direction	inout
Description	Saves a benchmark result to the results.xml file in a directory passed by parameter.	