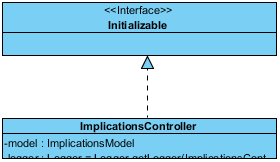
# es.uma.pfc.implications.generator.controller



## Summary

|  |  |
| --- | --- |
| **Name** | **Description** |
| Image1.png [Initializable](#m2uAS_KGAqACITCh) |  |
| Image1.png [ImplicationsController](#ZqWAS_KGAqACITBh) | Implications generator view's controller.    @author Dora Calderón |

## Details

### Image2.png Initializable

|  |  |
| --- | --- |
| **Name** | **Value** |
| Active | false |
| Business Key Mutable | true |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Stereotypes | Interface |

### Image2.png ImplicationsController

|  |  |
| --- | --- |
| **Name** | **Value** |
| Description | Implications generator view's controller.    @author Dora Calderón |
| Active | false |
| Business Key Mutable | true |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| **private model : ImplicationsModel** | | | |
| Description | Model. | | |
| Type | Image2.png ImplicationsModel | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | 1 | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private validationSupport : org.controlsfx.validation.ValidationSupport** | | | |
| Description | Validation support. | | |
| Type | org.controlsfx.validation.ValidationSupport | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | 1 | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private logger : java.util.logging.Logger** | | | |
| Initial Value | Logger.getLogger(ImplicationsController.class.getName()) | | |
| Type | java.util.logging.Logger | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private txtNodes : javafx.scene.control.TextField** | | | |
| Type | javafx.scene.control.TextField | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private txtImplications : javafx.scene.control.TextField** | | | |
| Type | javafx.scene.control.TextField | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private txtMinLongPremisse : javafx.scene.control.TextField** | | | |
| Type | javafx.scene.control.TextField | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private txtMaxLongPremisse : javafx.scene.control.TextField** | | | |
| Type | javafx.scene.control.TextField | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private txtMinLongConclusion : javafx.scene.control.TextField** | | | |
| Type | javafx.scene.control.TextField | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private txtMaxLongConclusion : javafx.scene.control.TextField** | | | |
| Type | javafx.scene.control.TextField | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private btnSave : javafx.scene.control.Button** | | | |
| Type | javafx.scene.control.Button | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private btnGenerate : javafx.scene.control.Button** | | | |
| Type | javafx.scene.control.Button | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private cbNodeType : javafx.scene.control.ComboBox** | | | |
| Type | javafx.scene.control.ComboBox | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private txtSystemsNumber : javafx.scene.control.TextField** | | | |
| Type | javafx.scene.control.TextField | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private textViewer : javafx.scene.control.TextArea** | | | |
| Type | javafx.scene.control.TextArea | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private txtOutput : javafx.scene.control.TextField** | | | |
| Type | javafx.scene.control.TextField | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private implicationsPane : javafx.scene.layout.AnchorPane** | | | |
| Type | javafx.scene.layout.AnchorPane | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private generationProgressInd : javafx.scene.control.ProgressIndicator** | | | |
| Type | javafx.scene.control.ProgressIndicator | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private nodeType : AttributeType** | | | |
| Description | Nodes type. | | |
| Type | Image2.png AttributeType | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private implicationSystems : java.util.List** | | | |
| Description | Generated system. | | |
| Template Type Bind Info | N/A | | |
| Type | java.util.List | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | \* | | |
| Java Detail | N/A | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Is ID | false | | |
| Leaf | false | | |

#### Operations

|  |  |
| --- | --- |
| **public initialize (url : java.net.URL, rb : java.util.ResourceBundle) : void** | |
| Parameters | |  |  | | --- | --- | | **url** | | | Description | URL. | | Multiplicity | Unspecified | | Type | java.net.URL | | Direction | inout | | Java Detail | N/A |  |  |  | | --- | --- | | **rb** | | | Description | Resource Bundle. | | Multiplicity | Unspecified | | Type | java.util.ResourceBundle | | Direction | inout | | Java Detail | N/A | |
| Description | Initializes the controller class. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **protected initView () : void** | |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **protected initModel () : void** | |
| Description | Initializes the model. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **protected initBindings ()** | |
| Description | Inicializa el modelo. |
| Leaf | false |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **protected initValidation () : void** | |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **protected initListeners () : void** | |
| Description | Initializes the listeners. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **public setOutput (outputPath : String) : void** | |
| Parameters | |  |  | | --- | --- | | **outputPath** | | | Description | Output file path. | | Multiplicity | 1 | | Type | Image3.png String | | Direction | inout | | Java Detail | N/A | |
| Description | Sets the output file path into the output field. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **public clean ()** | |
| Description | Limpia la vista y el modelo. |
| Leaf | false |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **public handleNodeTypeSelection (event : javafx.event.ActionEvent) : void** | |
| Parameters | |  |  | | --- | --- | | **event** | | | Description | Event. | | Multiplicity | Unspecified | | Type | javafx.event.ActionEvent | | Direction | inout | | Java Detail | N/A | |
| Description | Updates the node type to use form implications. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **public handlePremisseSizeChange () : void** | |
| Description | Cleans the decorators of max and min premisse length. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **public handleConclusionSizeChange () : void** | |
| Description | Método que se ejecuta cuando los campos txtMinLongPremisse y txtMaxLongPremisse han cambiado. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **public handleGenerateButton (event : javafx.event.ActionEvent) : void** | |
| Parameters | |  |  | | --- | --- | | **event** | | | Description | Event. | | Multiplicity | 1 | | Type | javafx.event.ActionEvent | | Direction | inout | | Java Detail | N/A | |
| Description | Handles the event thrown when the Generate button is pressed.  Generates the implications with the inserted values. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **public implicationsGenerated (systems : fr.kbertet.lattice.ImplicationalSystem)** | |
| Parameters | |  |  | | --- | --- | | **systems** | | | Description | Sistemas generados. | | Multiplicity | 0..\* | | Type Modifier | [0..\*] | | Type | fr.kbertet.lattice.ImplicationalSystem | | Direction | inout | |
| Description | Muestra el conjunto generado en el visor, si sólo ha sido uno.  Si han sido varios, muestra el cuadro de diálogo *Guardar* |
| Leaf | false |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **public handleOutputAction (event : javafx.event.ActionEvent) : void** | |
| Parameters | |  |  | | --- | --- | | **event** | | | Description | Event. | | Multiplicity | Unspecified | | Type | javafx.event.ActionEvent | | Direction | inout | | Java Detail | N/A | |
| Description | Open the dialog box to select an output file, and copy the selected file path into Output field. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **public handleSaveButton (event : javafx.event.ActionEvent) : void** | |
| Parameters | |  |  | | --- | --- | | **event** | | | Description | Evento. | | Multiplicity | Unspecified | | Type | javafx.event.ActionEvent | | Direction | inout | | Java Detail | N/A | |
| Description | Escucha el evento lanzado cuando se pulsa el botón btnOutput y muestra el cuadro de diálogo para seleccionar el fichero de destino.  Cuando se selecciona uno, muestra la ruta absoluta de éste en el campo txtOutput. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **protected save () : void** | |
| Description | Saves the generated implicational systems. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **protected showSaveDialog () : java.io.File** | |
| Description | Shows the "Save" dialog box and returns the selected path. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Return Type Description | Selected file. |
| Query | false |

|  |  |
| --- | --- |
| **protected showText (system : ImplicationalSystem) : void** | |
| Parameters | |  |  | | --- | --- | | **system** | | | Description | Implicational system. | | Multiplicity | Unspecified | | Type | Image2.png ImplicationalSystem | | Direction | inout | | Java Detail | N/A | |
| Description | Shows in the viewer an implicational system. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **protected showText (implicationsFile : java.io.File) : void** | |
| Parameters | |  |  | | --- | --- | | **implicationsFile** | | | Description | Implicational system. | | Multiplicity | 1 | | Type | java.io.File | | Direction | inout | | Java Detail | N/A | |
| Description | Muestra en el visor la representación en texto de un sistema implicacional. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **protected validate () : void** | |
| Description | Performs the model validation.  @throw RuntimeException If validation error exists. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **protected viewToModel () : void** | |
| Description | Reads the view values and saves them into the model. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **protected cleanView () : void** | |
| Description | Cleans the view fields. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **protected cleanModel () : void** | |
| Description | Limpia el modelo. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **protected initBinding () : void** | |
| Description | Inititalizes bindings. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **public clean (event : javafx.event.ActionEvent) : void** | |
| Parameters | |  |  | | --- | --- | | **event** | | | Description | Event. | | Multiplicity | Unspecified | | Type | javafx.event.ActionEvent | | Direction | inout | | Java Detail | N/A | |
| Description | Handles the event thrown when the Clean button is pressed.  Cleans the form fields. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **public implicationsGenerated (systems : java.util.List) : void** | |
| Parameters | |  |  | | --- | --- | | **systems** | | | Description | Implicaciones generadas. | | Multiplicity | Unspecified | | Template Type Bind Info | N/A | | Type | java.util.List | | Direction | inout | | Java Detail | N/A | |
| Description | Shows the generated system in the viewer, if was generated only one.  If was generated several, shows the *Save* dialog box. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **protected publicSystemsGenerated (selectedFile : String) : void** | |
| Parameters | |  |  | | --- | --- | | **selectedFile** | | | Description | Output file path. | | Multiplicity | Unspecified | | Type | Image3.png String | | Direction | inout | | Java Detail | N/A | |
| Description | Publishes a SystemSaved event by Eventbus. |
| Leaf | false |
| Upper | 1 |
| Ordered | false |
| Unique | true |
| Query | false |