GLIF

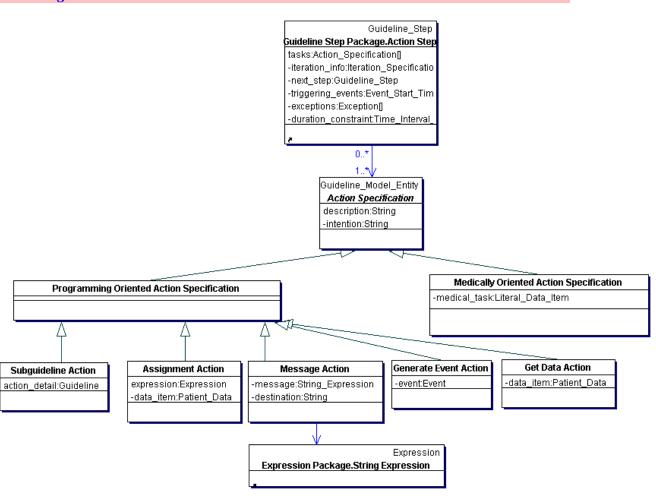
Thu Feb 17 11:30:05 PST 2000

Package Action_Specification_Package

Classes

- class Action Specification Package. Action Specification
- class Action Specification Package. Assignment Action
- class Action Specification Package.Generate Event Action
- class Action_Specification_Package.Get_Data_Action
- class Action_Specification_Package.Medically_Oriented_Action_Specification
- class Action Specification Package.Message Action
- class Action_Specification_Package.Programming_Oriented_Action_Specification
- class Action Specification Package.Subguideline Action

Class Diagram



Class Detail



Elass Action Specification Package. Action Specification

Inherits from:

Guideline_Model_Entity

Description:

The Action_Specification class is used to describe a clinical action in detail. This is an abstract base class. We expect that there will be a hierarchy of subclasses that describe different types of actions in a structured manner.

Purpose:

To specify details of an action.

Considerations:

This class was derived from the GLIF-2 Action_Spec class. The name was changed for consistency.

Attributes

description intention

Attribute Detail

description

Data type: String Multiplicity: 0:1

Description: A brief human-readable description of the action to be performed.

Level: A

intention



Class Action Specification Package. Assignment Action

Inherits from:

Action_Specification_Package.Programming_Oriented_Action_Specification

The Assignment_Action class is used to create/instantiate a new data item. This data item is assigned the value resulting from the evaluation of the expression.

Purpose:

To instantiate a new data item that is assigned the result from the expression evaluation.

Considerations:

- This class may need some modifications once the patient data items are better defined. The new data item that is created may need more definition in terms of its datatype or relationships with other data items.
- The datatype of data_item_name needs to be restricted to a type that allows only names which are legal (starts with letter, no +,-, etc.)

Attributes

data item expression

Attribute Detail

🚇 data_item

Data type: Patient_Data Multiplicity: 0:1

Description: The definition of the data that is output by this action.

Level: A

🤗 expression

Data type: Expression Multiplicity: 0:1

Description: The expression to be evaluated. If expression is null, a new data item with null value is created

Level: B

Elass Action Specification Package. Generate Event Action

Inherits from:

Action_Specification_Package.Programming_Oriented_Action_Specification

Attributes

event

Attribute Detail





Class Action Specification_Package.Get_Data_Action

Action_Specification_Package.Programming_Oriented_Action_Specification

Attributes

data_item

Attribute Detail

🚇 data_item

Data type: Variable_Data_Item

Multiplicity: 0:1

Description: The data that is obtained by this action.

Level: A



Elass Action Specification Package. Medically Oriented Action Specification

Action_Specification_Package.Action_Specification

MedicallyOrientedActionSpecification defines a medical_task, which is a concept defined in the RIM layer of GLIF's data model/ontology. Examples of MedicallyOrientedActionSpecification include Diagnostic_Test_Order, Drug_Prescription_Action, Refferal, and Scheduling.

Attributes

medical_task

Attribute Detail



medical_task

Class Action_Specification_Package.Message_Action

Inherits from:

 $Action_Specification_Package.Programming_Oriented_Action_Specification$

Description:

The Message_Action class is used to send a message to a destination

similar to the "write" statement of Arden Syntax.

Considerations:

Attributes

destination message

Attribute Detail



Data type: String Multiplicity: 0:1

Description: The message' destination

Level: C



Data type: String Multiplicity: 1:1

Description: The message to be sent, the string can include text and variables (e.g., "patient age is: " || age || "\n"

Currently, the specification does not provide any formatting commands.



Elass Action Specification Package. Programming Oriented Action Specification

Inherits from:

Action_Specification_Package.Action_Specification



Elass Action Specification Package. Subguideline Action

Inherits from:

Action_Specification_Package.Programming_Oriented_Action_Specification

The Subguideline_Action class is a specialization of the Action_Specification class. An object of this class when contained inside an action_step creates a nested action step.

The Subguideline_Action is used to describe nested actions.

Considerations:

A design consideration was to include a subguideline attribute in the Action_Step class rather than in an Action_Specification (as in GLIF-2). However, that option was not semantically clear in terms of the relationships amongst the subguideline and the other actions that are included in the Action_Step. the other actions that get inc

Attributes

action_detail

Attribute Detail



🚇 action_detail

Data type: Subguideline Multiplicity: 0:1

Description: The nested subguideline that is called by the action specification.

Level: B