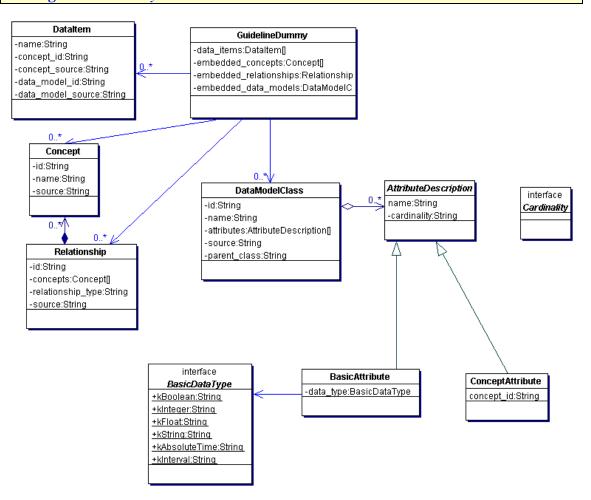
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Package CoreGLIFLayer



Package DataDescriptionLayer

interface DataModel

- +getConcept:Concept
- +findConcept;Concept[]
- +getDataModel:DataModelClass
- +getDataModel:DataModelClass

Concept[] findConcept(String term)

Concept getConcept(String concept_id, String source_vocabulary)

DataModelClass getDataModel(String data_model_name)

DataModelClass getDataModel(Concept concept)

Package ExternalSourceLayer

interface DataSource

- +getDataItemValue:DataItem
- +getName:String
- +getDescription:String
- +getDataModellD:String
- +isDataAvailable:boolean
- +listAvailableData:Concept

interface

InformationSource

- +isValidMethod:boolean
- +listAvailableMethods:String[]
- +getMethodParameters:Parameten
- +callMethod:Any
- +getName:String
- +getDescription:String

interface KnowledgeSc

- +getName:String
- +areRelated:boolean
- +areRelated:boolean
- +getAttributeValue:Ar.
- +listKnownConcepts:C
- +listKnownRelationsh
- +knowsConcept:book +knowsRelationship:t
- +isRelationshipRever
- +getDescription:String

Parameter

-name:String -concept:Concept

ParameterValue

value:Any

Interface *ExternalSourceLayer.DataSource*

 ${\tt DataItem\ getDataItem\ Value} (Concept\ c,\ String\ patient_identifier,\ Expression\ constraint)$

String getDataModeIID()

String getDescription()

String getName()
boolean isDataAvailable(Concept c)
Concept listAvailableData()

• Interface <u>ExternalSourceLayer.InformationSource</u>

Any callMethod(String method_name, ParameterValue[] parms) parms are Read-only

String getDescription()

Parameter[] getMethodParameters(String method_name)

String getName()

boolean isValidMethod(String method_name)

String[] listAvailableMethods()

• Interface ExternalSourceLayer.KnowledgeSource

boolean areRelated(Concept c1, Concept c2)

boolean areRelated(Concept from, Concept to, Relationship r)

Any getAttributeValue(Concept c, Relationship r)

String getDescription()

String getName()

boolean isRelationshipReversible(String relationship_type)

boolean knowsConcept(Concept c)

boolean knowsRelationship(String relationship_type)

Concept[] listKnownConcepts()

Relationship[] listKnownRelationships()