

model

Package in package 'DDF'

model
Version 1.0 Phase 1.0 Proposed
cupke created on 3/1/2023. Last modified 3/1/2023

model diagram

Class diagram in package 'model'

model
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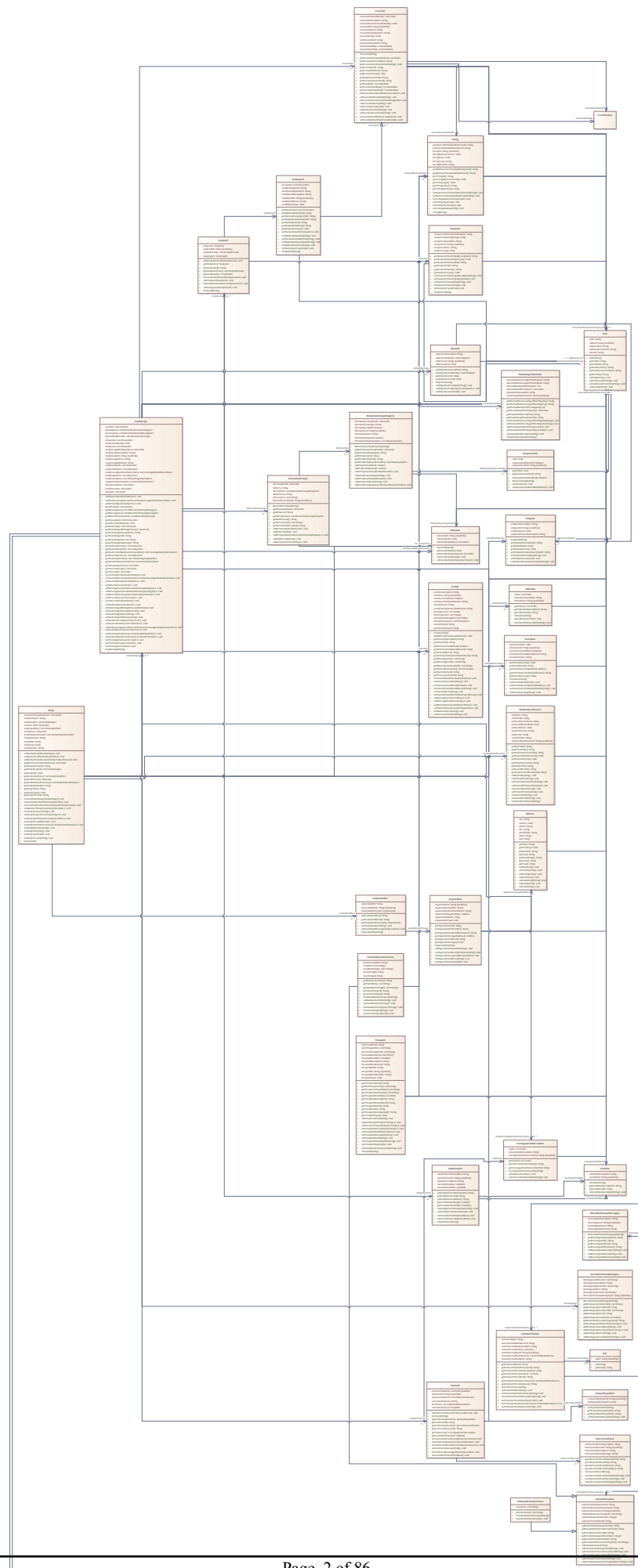





Figure 1: model

Activity















Class in package 'model'











An action, undertaking, or event, which is anticipated to be performed or observed, or was performed or observed, according to the study protocol during the execution of the study.

Activity
Version 1.0 Phase 1.0 Proposed
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ATTRIBUTES	
 activityDescription : String Private The textual representation of the study activity.	[Is static True. Containment is Not Specified.]
 activityId : String Private Const	[Is static True. Containment is Not Specified.]
 activityIsConditional : boolean Private	[Is static True. Containment is Not Specified.]
 activityIsConditionalReason : String Private	[Is static True. Containment is Not Specified.]
 activityName : String Private The literal identifier (i.e., distinctive designation) of the clinical study activity.	[Is static True. Containment is Not Specified.]
 activityScheduleTimelineEntryId : String Private OK, I'm super-struggling with this one here. If we have instances of activities in a ScheduleTimeline that reference activities, then this means that we should have timelines with one Activity, and one ScheduledActivityInstance with the same definition that both point to ScheduleTimelines. We also may have an Activity that points to a ScheduleTimeline and a ScheduledActivityInstance that points to same Activity, but to a different ScheduleTimeline. This will likely happen...correct? At the surface it seems so. I'm thinking this won't work and that only ScheduledActivityInstances should ever point to a ScheduleTimeline. Also it's possible for an Activity to be the start of more than one ScheduleTimeline, correct? If so, then this can't be a scalar variable. Hence the association defined (1 to 0..*) between Activity objects and ScheduledActivityInstance objects.	[Is static True. Containment is Not Specified.]
 bcCategoryIds : List<String> Private	

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
 bcSurrogateIds : List<String> Private	[Is static True. Containment is Not Specified.]
 biomedicalConceptIds : List<String> Private	[Is static True. Containment is Not Specified.]
 definedProcedures : List<Procedure> Private	[Is static True. Containment is Not Specified.]
 nextActivityId : String Private A system identifier assigned to a study activity that occurs immediately after the current study activity.	[Is static True. Containment is Not Specified.]
 previousActivityId : String Private A system identifier assigned to a study activity that occurs immediately prior to the current study activity.	[Is static True. Containment is Not Specified.]
ASSOCIATIONS	
 Association (direction: Source -> Destination)	
Source: Public (Class) Activity	Target: Private definedProcedures (Class) Procedure Cardinality: [0..*]
 Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private activities (Class) Activity Cardinality: [0..*]
OPERATIONS	
 Activity (activityId : String) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 addDefinedProcedure (procedure : Procedure) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	

OPERATIONS	
 getActivityDescription () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getActivityId () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getActivityIsConditional () : boolean Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getActivityIsConditionalReason () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getActivityName () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getActivityScheduleTimelineEntryId () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getBcCategoryIds () : List<String> Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getBcSurrogateIds () : List<String> Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getBiomedicalConceptIds () : List<String> Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getDefinedProcedures () : List<Procedure> Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getNextActivityId () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getPreviousActivityId () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 removeDefinedProcedure (procedure : Procedure) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setActivityDescription (description : String) : void Public	

OPERATIONS	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setActivityIsConditional (activityIsConditional : boolean) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setActivityIsConditionalReason (activityIsConditionalReason : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setActivityName (activityName : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setActivityScheduleTimelineEntryId (activityScheduleTimelineEntryId : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBcCategoryIds (bcCategoryIds : List<String>) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBcSurrogateIds (bcSurrogateIds : List<String>) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBiomedicalConceptIds (biomedicalConceptIds : List<String>) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setDefinedProcedures (definedProcedures : List<Procedure>) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setNextActivityId (nextActivityId : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setPreviousActivityId (previousActivityId : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Address


Class in package 'model'

Address


Version 1.0 Phase 1.0 Proposed

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ATTRIBUTES

ATTRIBUTES city : String Private


[Is static True. Containment is Not Specified.]

 country : Code Private


[Is static True. Containment is Not Specified.]

 district : String Private

[Is static True. Containment is Not Specified.]

 line : String Private


[Is static True. Containment is Not Specified.]

 postalCode : String Private

[Is static True. Containment is Not Specified.]

 state : String Private

[Is static True. Containment is Not Specified.]

 text : String Private

[Is static True. Containment is Not Specified.]


ASSOCIATIONS Association (direction: Source -> Destination)

Source: Public (Class) Address


Target: Private country (Class) Code

 Association (direction: Source -> Destination)













Source: Public (Class) Organization

Target: Private organizationLegalAddress (Class)
Address**OPERATIONS** getCity () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getCountry () : Code Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS	
 getDistrict () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getLine () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getPostalCode () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getState () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getText () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setCity (city : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setCountry (country : Code) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setDistrict (district : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setLine (line : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setPostalCode (postalCode : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setState (state : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setText (text : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

AliasCode

Class in package 'model'







An alternative symbol or combination of symbols which is assigned to the members of a collection.






AliasCode

Version 1.0 Phase 1.0 Proposed

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ATTRIBUTES	
 aliasCodeId : String Private Const	[Is static True. Containment is Not Specified.]
 standardCode : Code Private	[Is static True. Containment is Not Specified.]
 standardCodeAliases : List<Code> Private	[Is static True. Containment is Not Specified.]

ASSOCIATIONS	
 Association (direction: Source -> Destination)	
Source: Public (Class) AliasCode	Target: Private standardCodeAliases (Class) Code Cardinality: [0..*]
 Association (direction: Source -> Destination)	
Source: Public (Class) AliasCode	Target: Private standardCode (Class) Code
 Association (direction: Source -> Destination)	
Source: Public (Class) BiomedicalConcept	Target: Private bcConceptCode (Class) AliasCode
 Association (direction: Source -> Destination)	
Source: Public (Class) Study	Target: Private studyPhase (Class) AliasCode
 Association (direction: Source -> Destination)	
Source: Public (Class) BiomedicalConceptProperty	Target: Private bcPropertyConceptCode (Class) AliasCode
 Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private studyDesignBlindingScheme (Class) AliasCode



OPERATIONS
 AliasCode (aliasCodeId : String) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStandardCode () : Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStandardCodeAliases () : List<Code> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStandardCode (standardCode : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStandardCodeAliases (standardCodeAliases : List<Code>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]


AnalysisPopulation

Class in package 'model'

A target study population on which an analysis is performed. These may be represented by the entire study population, a subgroup defined by a particular characteristic measured at baseline, or a principal stratum defined by the occurrence (or non-occurrence, depending on context) of a specific intercurrent event. (ICH E9 R1 Addendum)


AnalysisPopulation
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ATTRIBUTES
 analysisPopulationId : String Private Const [Is static True. Containment is Not Specified.]
 populationDescription : String Private The textual representation of the study population for analysis. [Is static True. Containment is Not Specified.]

ASSOCIATIONS
 Association (direction: Source -> Destination) <div> <div>Source: Public (Class) Estimand</div> <div>Target: Private analysisPopulation (Class) AnalysisPopulation</div> </div>

ASSOCIATIONS

OPERATIONS

-  **AnalysisPopulation (analysisPopulationId : String) : Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
-  **getAnalysisPopulationId () : String Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
-  **getPopulationDescription () : String Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
-  **setPopulationDescription (populationDescription : String) : void Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

BiomedicalConcept

Class in package 'model'

BiomedicalConcept
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ATTRIBUTES

-  **bcConceptCode : AliasCode Private**
 [Is static True. Containment is Not Specified.]
-  **bcName : String Private**
 [Is static True. Containment is Not Specified.]
-  **bcProperties : List<BiomedicalConceptProperty> Private**
 [Is static True. Containment is Not Specified.]
-  **bcReference : String Private**
 [Is static True. Containment is Not Specified.]
-  **bcSynonyms : List<String> Private**
 [Is static True. Containment is Not Specified.]
-  **biomedicalConceptId : String Private Const**

ATTRIBUTES

[Is static True. Containment is Not Specified.]

ASSOCIATIONS Association (direction: Source -> Destination)

Source: Public (Class) BiomedicalConcept


Target: Private bcConceptCode (Class) AliasCode

 Association (direction: Source -> Destination)


Source: Public (Class) BiomedicalConcept

Target: Private bcProperties (Class)
BiomedicalConceptProperty
Cardinality: [0..*] Association (direction: Source -> Destination)


Source: Public (Class) StudyDesign

Target: Private biomedicalConcepts (Class)
BiomedicalConcept
Cardinality: [0..*]**OPERATIONS** BiomedicalConcept (biomedicalConceptId : String) : Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBcConceptCode () : AliasCode Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBcName () : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBcProperties () : List<BiomedicalConceptProperty> Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBcReference () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBcSynonyms () : List<String> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBiomedicalConceptId () : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS
 setBcConceptCode (bcConceptCode : AliasCode) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBcName (bcName : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBcProperties (bcProperties : List<BiomedicalConceptProperty>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBcReference (bcReference : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBcSynonyms (bcSynonyms : List<String>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]


BiomedicalConceptCategory

Class in package 'model'

BiomedicalConceptCategory
 Version 1.0 Phase 1.0 Proposed
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ATTRIBUTES
 bcCategoryChildrenIds : List<String> Private [Is static True. Containment is Not Specified.]
 bcCategoryDescription : String Private [Is static True. Containment is Not Specified.]
 bcCategoryMemberIds : List<String> Private [Is static True. Containment is Not Specified.]
 bcCategoryName : String Private [Is static True. Containment is Not Specified.]
 bcCategoryParentIds : List<String> Private [Is static True. Containment is Not Specified.]

ATTRIBUTES

 biomedicalConceptCategoryId : String Private Const

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)


Source: Public (Class) StudyDesign

Target: Private bcCategories (Class)


BiomedicalConceptCategory

Cardinality: [0..*]


OPERATIONS

 BiomedicalConceptCategory (bcCategoryId : String) : Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBcCategoryChildrenIds () : List<String> Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBcCategoryDescription () : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBcCategoryMemberIds () : List<String> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBcCategoryName () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBcCategoryParentIds () : List<String> Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBiomedicalConceptCategoryId () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]



 setBcCategoryChildrenIds (bcCategoryChildrenIds : List<String>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 setBcCategoryDescription (bcCategoryDescription : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]




 setBcCategoryMemberIds (bcCategoryMemberIds : List<String>) : void Public

OPERATIONS	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBcCategoryName (bcCategoryName : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBcCategoryParentIds (bcCategoryParentIds : List<String>) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

BiomedicalConceptProperty

Class in package 'model'

BiomedicalConceptProperty
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ATTRIBUTES	
 bcPropertyConceptCode : AliasCode Private	[Is static True. Containment is Not Specified.]
 bcPropertyDatatype : String Private	[Is static True. Containment is Not Specified.]
 bcPropertyEnabled : boolean Private	[Is static True. Containment is Not Specified.]
 bcPropertyId : String Private Const	[Is static True. Containment is Not Specified.]
 bcPropertyName : String Private	[Is static True. Containment is Not Specified.]
 bcPropertyRequired : boolean Private	[Is static True. Containment is Not Specified.]
 bcPropertyResponseCodes : List<ResponseCode> Private	[Is static True. Containment is Not Specified.]

ASSOCIATIONS

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) BiomedicalConceptProperty

Target: Private bcPropertyResponseCodes (Class)
ResponseCode

Cardinality: [0..*]

 Association (direction: Source -> Destination)

Source: Public (Class) BiomedicalConceptProperty

Target: Private bcPropertyConceptCode (Class)
AliasCode


 Association (direction: Source -> Destination)

Source: Public (Class) BiomedicalConcept

Target: Private bcProperties (Class)
BiomedicalConceptProperty

Cardinality: [0..*]

OPERATIONS

 BiomedicalConceptProperty (bcPropertyId : String) : Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBcPropertyConceptCode () : AliasCode Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBcPropertyDatatype () : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBcPropertyId () : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBcPropertyName () : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getBcPropertyResponseCodes () : List<ResponseCode> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]






 isBcPropertyEnabled () : boolean Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 isBcPropertyRequired () : boolean Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS


 setBcPropertyConceptCode (bcPropertyConceptCode : AliasCode) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBcPropertyDatatype (bcPropertyDatatype : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBcPropertyEnabled (bcPropertyEnabled : boolean) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBcPropertyName (bcPropertyName : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBcPropertyResponseCodes (bcPropertyResponseCodes : List<ResponseCode>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

BiomedicalConceptSurrogate

Class in package 'model'

BiomedicalConceptSurrogate
Version 1.0 Phase 1.0 Proposed
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ATTRIBUTES

 bcSurrogateDescription : String Private [Is static True. Containment is Not Specified.]
 bcSurrogateId : String Private Const [Is static True. Containment is Not Specified.]
 bcSurrogateName : String Private [Is static True. Containment is Not Specified.]
 bcSurrogateReference : String Private [Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)
--

ASSOCIATIONS

Source: Public (Class) StudyDesign

Target: Private bcSurrogates (Class)
BiomedicalConceptSurrogate
Cardinality: [0..*]**OPERATIONS**

BiomedicalConceptSurrogate (bcSurrogateId : String) : Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcSurrogateDescription () : String Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcSurrogateId () : String Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcSurrogateName () : String Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcSurrogateReference () : String Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setBcSurrogateDescription (bcSurrogateDescription : String) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setBcSurrogateName (bcSurrogateName : String) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setBcSurrogateReference (bcSurrogateReference : String) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Code

Class in package 'model'

A symbol or combination of symbols which is assigned to the members of a collection.

Code

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ATTRIBUTES

code : String Private


ATTRIBUTES

The literal value of a code.

[Is static True. Containment is Not Specified.]


 codeId : String Private Const

[Is static True. Containment is Not Specified.]

 codeSystem : String Private


The literal identifier (i.e., distinctive designation) of the system used to assign and/or manage codes.

[Is static True. Containment is Not Specified.]

 codeSystemVersion : String Private

The version of the code system.

[Is static True. Containment is Not Specified.]

 decode : String Private

Standardized or dictionary-derived human readable text associated with a code.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) ResponseCode

Target: Private code (Class) Code

 Association (direction: Source -> Destination)

Source: Public (Class) Indication

Target: Private codes (Class) Code

Cardinality: [0..*]

 Association (direction: Source -> Destination)

Source: Public (Class) Procedure

Target: Private procedureCode (Class) Code

 Association (direction: Source -> Destination)

Source: Public (Class) Organization

Target: Private organizationType (Class) Code

 Association (direction: Source -> Destination)

Source: Public (Class) Encounter

Target: Private encounterEnvironmentalSetting

ASSOCIATIONS	
	(Class) Code
 Association (direction: Source -> Destination)	
Source: Public (Class) Encounter	Target: Private encounterType (Class) Code
 Association (direction: Source -> Destination)	
Source: Public (Class) Timepoint	Target: Private timepointType (Class) Code
 Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private therapeuticAreas (Class) Code Cardinality: [0..*]
 Association (direction: Source -> Destination)	
Source: Public (Class) StudyProtocolVersion	Target: Private protocolStatus (Class) Code
 Association (direction: Source -> Destination)	
Source: Public (Class) Objective	Target: Private objectiveLevel (Class) Code
 Association (direction: Source -> Destination)	
Source: Public (Class) Address	Target: Private country (Class) Code
 Association (direction: Source -> Destination)	
Source: Public (Class) AliasCode	Target: Private standardCodeAliases (Class) Code Cardinality: [0..*]
 Association (direction: Source -> Destination)	
Source: Public (Class) Timing	Target: Private timingRelativeToFrom (Class) Code
 Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesignPopulation	Target: Private plannedSexOfParticipants (Class) Code Cardinality: [0..*]
 Association (direction: Source -> Destination)	

ASSOCIATIONS	
Source: Public (Class) Endpoint	Target: Private endpointLevel (Class) Code
 Association (direction: Source -> Destination)	
Source: Public (Class) InvestigationalIntervention	Target: Private codes (Class) Code Cardinality: [0..*]
 Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private trialIntentType (Class) Code Cardinality: [0..*]
 Association (direction: Source -> Destination)	
Source: Public (Class) Timing	Target: Private timingType (Class) Code
 Association (direction: Source -> Destination)	
Source: Public (Class) StudyArm	Target: Private studyArmType (Class) Code
 Association (direction: Source -> Destination)	
Source: Public (Class) AliasCode	Target: Private standardCode (Class) Code
 Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private trialType (Class) Code Cardinality: [0..*]
 Association (direction: Source -> Destination)	
Source: Public (Class) Study	Target: Private businessTherapeuticAreas (Class) Code Cardinality: [0..*]
 Association (direction: Source -> Destination)	
Source: Public (Class) StudyEpoch	Target: Private studyEpochType (Class) Code
 Association (direction: Source -> Destination)	
Source: Public (Class) Study	Target: Private studyType (Class) Code

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) Encounter

Target: Private encounterContactModes (Class)
Code

Cardinality: [0..*]

 Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign


Target: Private interventionModel (Class) Code

 Association (direction: Source -> Destination)


Source: Public (Class) StudyArm

Target: Private studyArmDataOriginType (Class)
Code


OPERATIONS

 Code (codeId : String) : Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getCode () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getCodeId () : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getCodeSystem () : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getCodeSystemVersion () : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getDecode () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]



 setCode (code : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 setCodeSystem (codeSystem : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS

-  **setCodeSystemVersion (codeSystemVersion : String) : void Public**
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
-  **setDecode (decode : String) : void Public**
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]



Condition

Class in package 'model'



This class wraps a single string description that poses a yes or no question that can be used in a decision or branching mechanism when working with timepoints in a timeline or can be used to define when a particular timeline should be executed.





Condition
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/1/2023. Last modified 3/1/2023

ATTRIBUTES

-  **conditionDescription : String Private**
The textual representation of the condition rule. 'Nuff said.
[Is static True. Containment is Not Specified.]
-  **conditionId : String Private Const**
[Is static True. Containment is Not Specified.]

ASSOCIATIONS

-  **Association (direction: Source -> Destination)**
Source: Public (Class) Timepoint
Target: Private timepointCondition (Class) Condition
-  **Association (direction: Source -> Destination)**
Source: Public (Class) StudyElement
Target: Private transitionStartRule (Class) Condition
-  **Association (direction: Source -> Destination)**
Source: Public (Class) StudyElement
Target: Private transitionEndRule (Class) Condition





OPERATIONS
 Condition (conditionId : String) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getConditionDescription () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getConditionId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setConditionDescription (conditionDescription : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Encounter


Class in package 'model'

Contact between subject/patient and healthcare practitioner/researcher, during which an assessment or activity is performed. Contact may be physical or virtual.

Encounter
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/1/2023. Last modified 3/1/2023


ATTRIBUTES
 encounterContactModes : List<Code> Private The means by which an interaction occurs between the subject/participant and person or entity (e.g., a device). [Is static True. Containment is Not Specified.]
 encounterDescription : String Private The textual representation of the protocol-defined clinical encounter. [Is static True. Containment is Not Specified.]
 encounterEnvironmentalSetting : Code Private The environment/setting where the event, intervention, or finding occurred. [Is static True. Containment is Not Specified.]
 encounterId : String Private Const [Is static True. Containment is Not Specified.]

ATTRIBUTES

 encounterName : String Private


The literal identifier (i.e., distinctive designation) for a protocol-defined clinical encounter.

[Is static True. Containment is Not Specified.]

 encounterScheduledAt : Timing Private

Ok, so now that we have a better understanding of the ScheduleTimeline, we need to think about what encounters should point to. In this case I believe the only relevant information in a Timing object re: Encounters is the window data which is just a string (could be meaningless). When managing patient protocols, encounters begin with some type of event, not a constraint such as a Timing. Encounters are an umbrella concept for a series of events (px, rx, labs, etc..) that a patient encounters during a provider visit. In patient protocols they often involve diagnoses and claims of "conditions"...not to be confused with conditions associated with ScheduledDecisionInstances. Which makes me think that we might not want to overload the term "condition". Anyway, I won't change this to a collection until we've figured out why the pointer exists.

[Is static True. Containment is Not Specified.]

 encounterType : Code Private

A characterization or classification of contact between subject/patient and healthcare practitioner/researcher, during which an assessment or activity is performed.

[Is static True. Containment is Not Specified.]

 nextEncounterId : String Private

A system identifier assigned to a clinical encounter that occurs immediately after the current clinical encounter.

[Is static True. Containment is Not Specified.]


 previousEncounterId : String Private

A system identifier assigned to a clinical encounter that occurs immediately prior to the current clinical encounter.

[Is static True. Containment is Not Specified.]

 transitionEndRule : TransitionRule Private

[Is static True. Containment is Not Specified.]

 transitionStartRule : TransitionRule Private

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) Encounter

Target: Private encounterScheduledAt (Class)
Timing

 Association (direction: Source -> Destination)

ASSOCIATIONS

Source: Public (Class) Encounter

Target: Private encounterEnvironmentalSetting
(Class) Code Association (direction: Source -> Destination)

Source: Public (Class) Encounter

Target: Private encounterType (Class) Code

 Association (direction: Source -> Destination)

Source: Public (Class) Encounter

Target: Private transitionEndRule (Class)
TransitionRule Association (direction: Source -> Destination)

Source: Public (Class) Encounter

Target: Private encounterContactModes (Class)
Code
Cardinality: [0..*] Association (direction: Source -> Destination)

Source: Public (Class) Encounter

Target: Private transitionStartRule (Class)
TransitionRule Association (direction: Source -> Destination)


Source: Public (Class) StudyDesign

Target: Private encounters (Class) Encounter
Cardinality: [0..*] Association (direction: Source -> Destination)

Source: Public (Class) StudyEpoch

Target: Private encounters (Class) Encounter
Cardinality: [0..*]


OPERATIONS

 Encounter (encounterId : String) : Public














[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]






 getEncounterContactModes () : List<Code> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getEncounterDescription () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS
 getEncounterEnvironmentalSetting () : Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getEncounterId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getEncounterName () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getEncounterType () : Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getNextEncounterId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getPreviousEncounterId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStartRule () : TransitionRule Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getTransitionEndRule () : TransitionRule Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getTransitionStartRule () : TransitionRule Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setEncounterContactModes (encounterContactModes : List<Code>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setEncounterDescription (encounterDescription : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setEncounterEnvironmentalSetting (encounterEnvironmentalSetting : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setEncounterName (encounterName : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]




OPERATIONS
 setEncounterType (encounterType : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setNextEncounterId (nextEncounterId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setPreviousEncounterId (previousEncounterId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setTransitionEndRule (transitionEndRule : TransitionRule) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setTransitionStartRule (transitionStartRule : TransitionRule) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Endpoint


Class in package 'model'

A defined variable intended to reflect an outcome of interest that is statistically analyzed to address a particular research question. NOTE: A precise definition of an endpoint typically specifies the type of assessments made, the timing of those assessments, the assessment tools used, and possibly other details, as applicable, such as how multiple assessments within an individual are to be combined. [After BEST Resource]

Endpoint
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/1/2023. Last modified 3/1/2023

ATTRIBUTES
 endpointDescription : String Private The textual representation of the study endpoint. [Is static True. Containment is Not Specified.]
 endpointId : String Private Const [Is static True. Containment is Not Specified.]
 endpointLevel : Code Private A characterization or classification of the study endpoint that determines its category of importance relative to other study endpoints. [Is static True. Containment is Not Specified.]

ATTRIBUTES

 endpointPurposeDescription : String Private

The textual representation of the study endpoint purpose.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) Endpoint

Target: Private endpointLevel (Class) Code

 Association (direction: Source -> Destination)

Source: Public (Class) Objective

Target: Private objectiveEndpoints (Class)
Endpoint


Cardinality: [0..*]

 Association (direction: Source -> Destination)


Source: Public (Class) Estimand

Target: Private variableOfInterest (Class) Endpoint


OPERATIONS

 Endpoint (endpointId : String) : Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getEndpointDescription () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getEndpointId () : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getEndpointLevel () : Code Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]



 getEndpointPurposeDescription () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 setEndpointDescription (endpointDescription : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS

-  **setEndpointLevel (endpointLevel : Code) : void Public**
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
-  **setEndpointPurposeDescription (endpointPurposeDescription : String) : void Public**
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]







Estimand

Class in package 'model'

A precise description of the treatment effect reflecting the clinical question posed by a given clinical trial objective. It summarises at a population level what the outcomes would be in the same patients under different treatment conditions being compared. (ICH E9 R1 Addendum)

Estimand
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/1/2023. Last modified 3/1/2023

ATTRIBUTES

-  **analysisPopulation : AnalysisPopulation Private**
[Is static True. Containment is Not Specified.]
-  **estimandId : String Private Const**
[Is static True. Containment is Not Specified.]
-  **intercurrentEvents : List<IntercurrentEvent> Private**
[Is static True. Containment is Not Specified.]
-  **summaryMeasure : String Private**
A synopsis of the clinical endpoint of interest within the analysis target study population.
[Is static True. Containment is Not Specified.]
-  **treatment : InvestigationalIntervention Private**
[Is static True. Containment is Not Specified.]
-  **variableOfInterest : Endpoint Private**
[Is static True. Containment is Not Specified.]

ASSOCIATIONS

-  **Association (direction: Source -> Destination)**

ASSOCIATIONS

Source: Public (Class) Estimand

Target: Private treatment (Class)
InvestigationalIntervention Association (direction: Source -> Destination)

Source: Public (Class) Estimand

Target: Private intercurrentEvents (Class)
IntercurrentEvent
Cardinality: [0..*] Association (direction: Source -> Destination)

Source: Public (Class) Estimand

Target: Private variableOfInterest (Class) Endpoint

 Association (direction: Source -> Destination)


Source: Public (Class) Estimand

Target: Private analysisPopulation (Class)
AnalysisPopulation Association (direction: Source -> Destination)


Source: Public (Class) StudyDesign

Target: Private studyEstimands (Class) Estimand
Cardinality: [0..*]**OPERATIONS** addIntercurrentEvent (intercurrentEvent : IntercurrentEvent) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 Estimand (estimandId : String) : Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getAnalysisPopulation () : AnalysisPopulation Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getEstimandId () : String Public









[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getIntercurrentEvents () : List<IntercurrentEvent> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getSummaryMeasure () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS
 getTreatment () : InvestigationalIntervention Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getVariableOfInterest () : Endpoint Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 removeIntercurrentEvent (intercurrentEvent : IntercurrentEvent) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setAnalysisPopulation (analysisPopulation : AnalysisPopulation) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setIntercurrentEvents (intercurrentEvents : List<IntercurrentEvent>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setSummaryMeasure (summaryMeasure : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setTreatment (treatment : InvestigationalIntervention) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setVariableOfInterest (variableOfInterest : Endpoint) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Exit

Class in package 'model'

Is just Exit intuitive enough in the model as a concept. Does it exist outside of a ScheduleTimeline? If not, then it's maybe a ScheduleTimelineExit or a TimelineExit?

Exit
Version 1.0 Phase 1.0 Proposed
cupke created on 3/1/2023. Last modified 3/1/2023

ATTRIBUTES
 exitId : String Private Const [Is static True. Containment is Not Specified.]
ASSOCIATIONS


ASSOCIATIONS

 Association (direction: Source -> Destination)


Source: Public (Class) ScheduleTimeline

Target: Private scheduleTimelineExits (Class) Exit
Cardinality: [0..*]

OPERATIONS

 Exit (exitId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getExitId () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Indication

Class in package 'model'

The condition, disease or disorder that the clinical trial is intended to investigate or address.

Indication

Version 1.0 Phase 1.0 Proposed


Chris Upkes created on 3/1/2023. Last modified 3/1/2023

ATTRIBUTES

 codes : List<Code> Private


A short sequence of characters that represents the disease indication.

[Is static True. Containment is Not Specified.]

 indicationDescription : String Private

The condition, disease or disorder that the clinical trial is intended to investigate or address.

[Is static True. Containment is Not Specified.]

 indicationId : String Private Const

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) Indication

Target: Private codes (Class) Code
Cardinality: [0..*]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign

Target: Private studyIndications (Class) Indication
Cardinality: [0..*]

OPERATIONS


 getCodes () : List<Code> Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getIndicationDescription () : String Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getIndicationId () : String Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 Indication (indicationId : String) : Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 setCodes (codes : List<Code>) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 setIndicationDescription (indicationDescription : String) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

IntercurrentEvent

Class in package 'model'

An event(s) occurring after treatment initiation that affects either the interpretation or the existence of the measurements associated with the clinical question of interest. (ICH E9 Addendum on Estimands)

IntercurrentEvent
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/1/2023. Last modified 3/1/2023

ATTRIBUTES


 intercurrentEventDescription : String Private


The textual representation of the intercurrent event.

[Is static True. Containment is Not Specified.]


ATTRIBUTES

 intercurrentEventId : String Private Const
[Is static True. Containment is Not Specified.]

 intercurrentEventName : String Private
The literal identifier (i.e., distinctive designation) of the intercurrent event.
[Is static True. Containment is Not Specified.]

 intercurrentEventStrategy : String Private
A textual description of the planned strategy to manage and/or mitigate intercurrent events.
[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)
Source: Public (Class) Estimand
Target: Private intercurrentEvents (Class)
IntercurrentEvent
Cardinality: [0..*]

OPERATIONS


 getIntercurrentEventDescription () : String Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]


 getIntercurrentEventId () : String Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getIntercurrentEventName () : String Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getIntercurrentEventStrategy () : String Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]


 IntercurrentEvent (intercurrentEventId : String) : Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 setIntercurrentEventDescription (intercurrentEventDescription : String) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 setIntercurrentEventName (intercurrentEventName : String) : void Public

OPERATIONS

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 setIntercurrentEventStrategy (intercurrentEventStrategy : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]


InvestigationalIntervention

Class in package 'model'

The drug, device, therapy, or process under investigation in a clinical study that is believed to have an effect on outcomes of interest in a study. [After https://grants.nih.gov/grants/policy/faq_clinical_trial_definition.htm#5224] (CDISC-Glossary)


InvestigationalIntervention
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/1/2023. Last modified 3/1/2023

ATTRIBUTES

 codes : List<Code> Private


A short sequence of characters that represents the investigational intervention.

[Is static True. Containment is Not Specified.]

 interventionDescription : String Private

The textual representation of the study intervention.

[Is static True. Containment is Not Specified.]

 investigationalInterventionId : String Private Const

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) InvestigationalIntervention

Target: Private codes (Class) Code

Cardinality: [0..*]

 Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign

Target: Private studyInvestigationalInterventions
(Class) InvestigationalIntervention

Cardinality: [0..*]


ASSOCIATIONS

 Association (direction: Source -> Destination)


Source: Public (Class) Estimand

Target: Private treatment (Class)
InvestigationalIntervention


OPERATIONS

 getCodes () : List<Code> Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getInterventionDescription () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getInvestigationalInterventionId () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 InvestigationalIntervention (investigationalInterventionId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 setCodes (codes : List<Code>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 setInterventionDescription (interventionDescription : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Objective

Class in package 'model'


The reason for performing a study in terms of the scientific questions to be answered by the analysis of data collected during the study.

Objective

Version 1.0 Phase 1.0 Proposed


Chris Upkes created on 3/1/2023. Last modified 3/1/2023

ATTRIBUTES

 objectiveDescription : String Private


The textual representation of the study objective. (BRIDG)

[Is static True. Containment is Not Specified.]


 objectiveEndpoints : List<Endpoint> Private

ATTRIBUTES

[Is static True. Containment is Not Specified.]

 objectiveId : String Private Const

[Is static True. Containment is Not Specified.]

 objectiveLevel : Code Private

A characterization or classification of the study endpoint that determines its category of importance relative to other study objectives.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS Association (direction: Source -> Destination)

Source: Public (Class) Objective

Target: Private objectiveEndpoints (Class)
Endpoint

Cardinality: [0..*]

 Association (direction: Source -> Destination)

Source: Public (Class) Objective


Target: Private objectiveLevel (Class) Code

 Association (direction: Source -> Destination)


Source: Public (Class) StudyDesign

Target: Private studyObjectives (Class) Objective

Cardinality: [0..*]

OPERATIONS getObjectiveDescription () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getObjectiveEndpoints () : List<Endpoint> Public





[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getObjectiveId () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getObjectiveLevel () : Code Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]






OPERATIONS
 Objective (objectiveId : String) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setObjectiveDescription (objectiveDescription : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setObjectiveEndpoints (objectiveEndpoints : List<Endpoint>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setObjectiveLevel (objectiveLevel : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Organization

Class in package 'model'


A formalized group of persons or other organizations collected together for a common purpose (such as administrative, legal, political) and the infrastructure to carry out that purpose. (BRIDG)

Organization
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/1/2023. Last modified 3/1/2023

ATTRIBUTES
 organizationId : String Private Const [Is static True. Containment is Not Specified.]
 organizationIdentifier : String Private A unique symbol that establishes identity of the organization. (BRIDG) [Is static True. Containment is Not Specified.]
 organizationIdentifierScheme : String Private The name of the organization that provides the identifier for the entity. [Is static True. Containment is Not Specified.]
 organizationLegalAddress : Address Private [Is static True. Containment is Not Specified.]
 organizationName : String Private A non-unique textual identifier for the organization. (BRIDG)

ATTRIBUTES

[Is static True. Containment is Not Specified.]

 organizationType : Code Private

A characterization or classification of the formalized group of persons or other organizations collected together for a common purpose (such as administrative, legal, political) and the infrastructure to carry out that purpose.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS Association (direction: Source -> Destination)

Source: Public (Class) Organization


Target: Private organizationType (Class) Code

 Association (direction: Source -> Destination)

Source: Public (Class) Organization

Target: Private organizationLegalAddress (Class)
Address Association (direction: Source -> Destination)


Source: Public (Class) StudyIdentifier

Target: Private studyIdentifierScope (Class)
Organization**OPERATIONS** getOrganizationId () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getOrganizationIdentifier () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getOrganizationIdentifierScheme () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]







 getOrganizationLegalAddress () : Address Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getOrganizationName () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getOrganizationType () : Code Public




OPERATIONS	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 Organization (organizationId : String) : Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setOrganizationIdentifier (organizationIdentifier : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setOrganizationIdentifierScheme (organizationIdentifierScheme : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setOrganizationLegalAddress (organizationLegalAddress : Address) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setOrganizationName (organizationName : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setOrganizationType (organizationType : Code) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Procedure


Class in package 'model'

Any activity performed by manual and/or instrumental means for the purpose of diagnosis, assessment, therapy, prevention, or palliative care.


Procedure
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/1/2023. Last modified 3/1/2023

ATTRIBUTES	
 procedureCode : Code Private	
A symbol or combination of symbols which is assigned to medical procedure.	[Is static True. Containment is Not Specified.]
 procedureId : String Private Const	
	[Is static True. Containment is Not Specified.]
 procedureIsConditional : boolean Private	
	[Is static True. Containment is Not Specified.]

ATTRIBUTES

 procedureIsConditionalReason : String Private

[Is static True. Containment is Not Specified.]

 procedureType : String Private

A characterization or classification of the study procedure.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) Procedure

Target: Private procedureCode (Class) Code

 Association (direction: Source -> Destination)

Source: Public (Class) Activity

Target: Private definedProcedures (Class)
Procedure

Cardinality: [0..*]


OPERATIONS

 getProcedureCode () : Code Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getProcedureId () : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getProcedureIsConditional () : boolean Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getProcedureIsConditionalReason () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]





 getProcedureType () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 Procedure (procedureId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS




-  **setProcedureCode** (procedureCode : Code) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
-  **setProcedureIsConditional** (procedureIsConditional : boolean) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
-  **setProcedureIsConditionalReason** (procedureIsConditionalReason : String) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
-  **setProcedureType** (procedureType : String) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ResponseCode



Class in package 'model'

ResponseCode
Version 1.0 Phase 1.0 Proposed
cupke created on 3/1/2023. Last modified 3/1/2023

ATTRIBUTES

-  **code** : Code Private
[Is static True. Containment is Not Specified.]
-  **responseCodeEnabled** : boolean Private
[Is static True. Containment is Not Specified.]
-  **responseCodeId** : String Private Const
[Is static True. Containment is Not Specified.]

ASSOCIATIONS

-  Association (direction: Source -> Destination)
Source: Public (Class) ResponseCode Target: Private code (Class) Code
-  Association (direction: Source -> Destination)
Source: Public (Class) BiomedicalConceptProperty Target: Private bcPropertyResponseCodes (Class) ResponseCode
Cardinality: [0..*]



OPERATIONS	
 getCode () : Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getResponseCodeId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 isResponseCodeEnabled () : boolean Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 ResponseCode (responseCodeId : String) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setCode (code : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setResponseCodeEnabled (responseCodeEnabled : boolean) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	

ScheduledActivityInstance




Class in package 'model'

The ScheduledActivityInstance class is used to extend the ScheduledInstance class with activity-specific information and behaviors needed for the ScheduleTimeline.

ScheduledActivityInstance
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/1/2023. Last modified 3/1/2023

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from ScheduledActivityInstance to ScheduledInstance [Direction is 'Source -> Destination'.]	
ATTRIBUTES	
 activityIds : List<String> Private This is the list of ID references to Activity definitions. There can be 1 or many. This allows for a simpler mechanism for associating non-sequential tasks that have similar constraints to other sequential tasks to be added to the timeline. [Is static True. Containment is Not Specified.]	

OPERATIONS

-  `getActivityIds () : List<String> Public`
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
-  `ScheduledActivityInstance (scheduledInstanceId : String) : Public`
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
-  `setActivityIds (activityIds : List<String>) : void Public`
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]


ScheduledDecisionInstance

Class in package 'model'



The ScheduledDecisionInstance class is used to extend the ScheduledInstance class with decision-specific information and behaviors needed for the ScheduleTimeline. Different from other ScheduledInstance extensions, this class will be used for flow-control logic such as branching and looping (cycling).

ScheduledDecisionInstance
 Version 1.0 Phase 1.0 Proposed
 Chris Upkes created on 3/1/2023. Last modified 3/1/2023


OUTGOING STRUCTURAL RELATIONSHIPS

-  Generalization from ScheduledDecisionInstance to ScheduledInstance
 [Direction is 'Source -> Destination'.]

ATTRIBUTES


-  `booleanCondition : String Private`
- I was only required to provide a simple boolean condition. The Condition class seems superfluous as it isn't referenced outside of this class. So, there might be a need to specify the boolean condition, but do we need to track the result? I don't think so... I think the booleanCondition is read by some other process and chooses a particular timing to traverse based on that condition. ScheduledDecisionInstances should not know anything about Timing even though timing is used to traverse from instance to instance and (I assume) timeline to timeline. This class is a way for the study builder to persist the "switch" logic that is needed to understand why two different timing objects were pointing to the same decision instance. However, at this point, there is nowhere to store which timing is associated with the TRUE vs the FALSE value. Why, because ScheduledInstances don't point to timing objects (it is vice versa). It could be that ScheduledInstanceDecision objects (vs. ScheduledActivityInstance) point back to Timing objects? Then we would have trueTimingId, falseTimingId.
 [Is static True. Containment is Not Specified.]
-  `conditions : List<String> Private`
- Here we have an option for a multiple-choice switch where we have many conditions and we point to many timing constraints associated with each condition being true or false.
 [Is static True. Containment is Not Specified.]

ATTRIBUTES

 conditionTimings : List<Timing> Private


In exact order with the list of conditions are a list of timing constraints to be associated with the result of any condition being true.

[Is static True. Containment is Not Specified.]

 falseTimingId : String Private

And this is the Timing object you point to if the boolean condition is false. If there is a multiple choice, then we would have to have a map or dictionary data representation because we can't define the number of options at design time.

[Is static True. Containment is Not Specified.]

 trueTimingId : String Private

I like what I just thought. Decisions point to Timing because they are selective. Activities do not, even though I went ahead and pointed to Timing objects at the ScheduledInstance. All Timings associated with decisions are regarded. Agree? If we have to maybe we should differentiate between inbound and outbound timing? So, this is the Timing that you point to if the condition is TRUE;

[Is static True. Containment is Not Specified.]

ASSOCIATIONS


 Association (direction: Source -> Destination)

Source: Public (Class) ScheduledDecisionInstance


Target: Private conditionTimings (Class) Timing

Cardinality: [0..*]


OPERATIONS

 getBooleanCondition () : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getConditions () : List<String> Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getConditionTimings () : List<Timing> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getFalseTimingId () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getTrueTimingId () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]



OPERATIONS
 ScheduledDecisionInstance (scheduledInstanceId : String) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBooleanCondition (booleanCondition : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setConditions (conditions : List<String>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setConditionTimings (conditionTimings : List<Timing>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setFalseTimingId (falseTimingId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setTrueTimingId (trueTimingId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]


ScheduledInstance

Class in package 'model'

The ScheduledInstance abstract class is used by ScheduleTimelines to build a sequence of activities and decisions that will define a schedule.

ScheduledInstance
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INCOMING STRUCTURAL RELATIONSHIPS
 Generalization from ScheduledDecisionInstance to ScheduledInstance [Direction is 'Source -> Destination'.]
 Generalization from ScheduledActivityInstance to ScheduledInstance [Direction is 'Source -> Destination'.]

ATTRIBUTES
 entryScheduleSequenceId : String Private
<p>I am going to keep these next two fields in the design, however, after much thought I'm concerned about the process of determining what timelines are branched to what others if we have to examine collections of ScheduledInstances. That's a</p>

ATTRIBUTES


drag. ScheduleTimeline objects might be more useful if they provided information regarding the first and last ScheduledInstance objects that they reference for the sake of traversal and sequencing, and then I suppose we could use those pointers to hop ScheduleTimelines via ScheduledInstances. Alternatively, we could simply point ScheduleInstances to each other in a doubly-linked list with previousScheduleTimeline(s) and nextScheduledTimeline(s). Thoughts?

[Is static True. Containment is Not Specified.]


 scheduledInstanceEncounterId : String Private

I get this now. You do want to know if the instance is part of an encounter. This field points to the encounter that the activity is taking part of.

[Is static True. Containment is Not Specified.]


 scheduledInstanceId : String Private Const

[Is static True. Containment is Not Specified.]

 scheduledInstanceTimingIds : List<String> Private

Ok, I'll add this, but it isn't very useful. You're better off starting at a ScheduleTimeline. In this case, you could have an instance pointing to a large number of Timing objects because it has a large number of scheduling constraints. I like the idea of activities not having any Timing references; just decisions because they are selective. If we must, we may want to consider changing this to be directionally at least...incoming and outgoing?

[Is static True. Containment is Not Specified.]

 scheduleSequenceNumber : Integer Private

There has been an ask for sequencing of ScheduledInstance in a ScheduleTimeline. In order to do this, the entire ScheduleTimeline must be constructed with all of the necessary ScheduledInstance, Timing and Exit objects. Once this is complete, a some sequencing process can then annotate the ScheduleTimeline's collection of ScheduleInstance objects and update this field. This is a hard field to name, btw. Is scheduleTimelineScheduledInstanceSequenceNumber manageable?

[Is static True. Containment is Not Specified.]

 scheduleTimelineExitId : String Private

In the last version of the model, there was a pointer to an Exit object in the previous version of this class. I'm struggling with this, as the exit is the property of a ScheduleTimeline already. I can understand why we need an entry pointer but not an exit. Is this just a way of identifying a final ScheduledInstance in some ScheduleTimeline? Isn't that still the perspective of the timeline? Just trying to name it really shows that I'm trying to point to something that's really something my parent cares about.

[Is static True. Containment is Not Specified.]













ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) ScheduleTimeline

Target: Private scheduleTimelineInstances (Class)
ScheduledInstance

Cardinality: [0..*]








OPERATIONS
 getEntryScheduleSequenceId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getScheduledInstanceEncounterId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getScheduledInstanceid () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getScheduleSequenceNumber () : Integer Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getScheduleTimelineExitId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getSecheduledInstanceTimingIds () : List<String> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 ScheduledInstance (scheduledInstanceId : String) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setEntryScheduleSequenceId (entryScheduleSequenceId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setScheduledInstanceEncounterId (scheduledInstanceEncounterId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setScheduleSequenceNumber (scheduleSequenceNumber : Integer) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setScheduleTimelineExitId (scheduleTimelineExitId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setSecheduledInstanceTimingIds (secheduledInstanceTimingIds : List<String>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ScheduleTimeline

Class in package 'model'

regarding TimeLine Entry as a new class name. I feel that TimelineEtry is confusing. If there is a timeline entry, then there must be a timeline. Yet, in the diagram, the two concepts are conflated into the TimelineEntry. I suggest keeping ScheduleTimeline and adding entry attribution as a simple condition field.

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ATTRIBUTES
<p> entryCondition : String Private</p> <p>Here we again place information at two levels: The ScheduledDecisionInstance and The ScheduleTimeline. If the timeline owns all of the instances then it already has a way to get to a condition on a decision. We should ponder this further.</p> <p style="text-align: right;">[Is static True. Containment is Not Specified.]</p>
<p> entryScheduledInstanceId : String Private</p> <p>If the timeline was due to a condition that was met for traversal from a previous timpoint, then we should have a handle to that timpoint.</p> <p style="text-align: right;">[Is static True. Containment is Not Specified.]</p>
<p> scheduleTimelineDescription : String Private</p> <p>A textual description of the timeline. There will likely be numerous timelines in a study and this field provides the context for the particular timeline.</p> <p style="text-align: right;">[Is static True. Containment is Not Specified.]</p>
<p> scheduleTimelineExits : List<Exit> Private</p> <p>This field represents the Exit object associated with the ScheduleTimeline.</p> <p style="text-align: right;">[Is static True. Containment is Not Specified.]</p>
<p> scheduleTimelineId : String Private Const</p> <p style="text-align: right;">[Is static True. Containment is Not Specified.]</p>
<p> scheduleTimelineInstances : List<ScheduledInstance> Private</p> <p>At this point, this is an unordered list of instances. We might consider more encapsulation by creating a timepointSequence wrapper.</p> <p style="text-align: right;">[Is static True. Containment is Not Specified.]</p>
<p> scheduleTimelineName : String Private</p> <p>This is field provides a name for the timeline</p> <p style="text-align: right;">[Is static True. Containment is Not Specified.]</p>

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) ScheduleTimeline

Target: Private scheduleTimelineInstances (Class)
ScheduledInstance

Cardinality: [0..*]

 Association (direction: Source -> Destination)

Source: Public (Class) ScheduleTimeline

Target: Private scheduleTimelineExits (Class) Exit

Cardinality: [0..*]


 Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign

Target: Private studyScheduleTimelines (Class)
ScheduleTimeline

Cardinality: [0..*]

OPERATIONS

 getEntryCondition () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getEntryScheduledInstanceId () : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getScheduleTimelineDescription () : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getScheduleTimelineExits () : List<Exit> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getScheduleTimelineId () : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getScheduleTimelineInstances () : List<ScheduledInstance> Public





[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getScheduleTimelineName () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 ScheduleTimeline (scheduleTimelineId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]




OPERATIONS
 setEntryCondition (entryCondition : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setEntryScheduledInstanceId (entryScheduledInstanceId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setScheduleTimelineDescription (scheduleTimelineDescription : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setScheduleTimelineExits (scheduleTimelineExits : List<Exit>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setScheduleTimelineInstances (scheduleTimelineInstances : List<ScheduledInstance>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setScheduleTimelineName (scheduleTimelineName : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]










Study

Class in package 'model'

A clinical study involves research using human volunteers (also called participants) that is intended to add to medical knowledge. There are two main types of clinical studies: clinical trials (also called interventional studies) and observational studies. [[<http://ClinicalTrials.gov>]](CDISC Glossary)

Study
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ATTRIBUTES
 businessTherapeuticAreas : List<Code> Private A therapeutic area classification based on the structure and operations of the business unit. [Is static True. Containment is Not Specified.]
 studyAcronym : String Private [Is static True. Containment is Not Specified.]
 studyDesigns : List<StudyDesign> Private [Is static True. Containment is Not Specified.]

ATTRIBUTES	
 studyId : UUID Private Const	[Is static True. Containment is Not Specified.]
 studyIdentifiers : List<StudyIdentifier> Private	[Is static True. Containment is Not Specified.]
 studyPhase : AliasCode Private A step in the clinical research and development of a therapy from initial clinical trials to post-approval studies. NOTE: Clinical trials are generally categorized into four (sometimes five) phases. A therapeutic intervention may be evaluated in two or more phases simultaneously in different trials, and some trials may overlap two different phases. [21 CFR section 312.21; After ICH Topic E8 NOTE FOR GUIDANCE ON GENERAL CONSIDERATIONS FOR CLINICAL TRIALS, CPMP/ICH/291/95 March 1998]	[Is static True. Containment is Not Specified.]
 studyProtocolVersions : List<StudyProtocolVersion> Private	[Is static True. Containment is Not Specified.]
 studyRationale : String Private	[Is static True. Containment is Not Specified.]
 studyTitle : String Private The sponsor-defined name of the clinical study.	[Is static True. Containment is Not Specified.]
 studyType : Code Private The nature of the investigation for which study information is being collected. (AfterÂ clinicaltrials.gov)	[Is static True. Containment is Not Specified.]
 studyVersion : String Private A plan at a particular point in time for a study.	[Is static True. Containment is Not Specified.]
ASSOCIATIONS	
 Association (direction: Source -> Destination) Source: Public (Class) Study	Target: Private studyProtocolVersions (Class) StudyProtocolVersion Cardinality: [0..*]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) Study

Target: Private studyPhase (Class) AliasCode

 Association (direction: Source -> Destination)

Source: Public (Class) Study

Target: Private studyDesigns (Class) StudyDesign
Cardinality: [0..*]

 Association (direction: Source -> Destination)

Source: Public (Class) Study

Target: Private businessTherapeuticAreas (Class)
Code
Cardinality: [0..*]

 Association (direction: Source -> Destination)

Source: Public (Class) Study


Target: Private studyType (Class) Code

 Association (direction: Source -> Destination)


Source: Public (Class) Study

Target: Private studyIdentifiers (Class)
StudyIdentifier
Cardinality: [0..*]

OPERATIONS

 addStudyDesign (studyDesign : StudyDesign) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 addStudyIdentifier (studyIdentifier : StudyIdentifier) : void Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 addStudyProtocolVersion (studyProtocolVersion : StudyProtocolVersion) : void Public














[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]











 getBusinessTherapeuticAreas () : List<Code> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getStudyAcronym () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS
 getStudyDesigns () : List<StudyDesign> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyId () : UUID Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyIdentifiers () : List<StudyIdentifier> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyPhase () : AliasCode Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyProtocolVersions () : List<StudyProtocolVersion> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyRationale () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyTitle () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyType () : Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyVersion () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 removeStudyDesign (studyDesign : StudyDesign) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 removeStudyIdentifier (studyIdentifier : StudyIdentifier) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 removeStudyProtocolVersion (studyProtocolVersion : StudyProtocolVersion) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBusinessTherapeuticAreas (businessTherapeuticAreas : List<Code>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS	
 setStudyAcronym (studyAcronym : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyDesigns (studyDesigns : List<StudyDesign>) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyIdentifiers (studyIdentifiers : List<StudyIdentifier>) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyPhase (studyPhase : AliasCode) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyProtocolVersions (studyProtocolVersions : List<StudyProtocolVersion>) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyRationale (studyRationale : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyTitle (studyTitle : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyType (studyType : Code) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyVersion (studyVersion : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 Study (studyId : UUID) : Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

StudyArm

Class in package 'model'

A planned pathway assigned to the subject as they progress through the study, usually referred to by a name that reflects one or more treatments, exposures, and/or controls included in the path.

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ATTRIBUTES

ATTRIBUTES

 studyArmDataOriginDescription : String Private


The textual representation of the study arm data origin.

[Is static True. Containment is Not Specified.]

 studyArmDataOriginType : Code Private


A characterization or classification of the study arm with respect to where the study arm data originates.

[Is static True. Containment is Not Specified.]


 studyArmDescription : String Private

The textual representation of the study arm.

[Is static True. Containment is Not Specified.]


 studyArmId : String Private Const

[Is static True. Containment is Not Specified.]

 studyArmName : String Private

The literal identifier (i.e., distinctive designation) of the study arm.

[Is static True. Containment is Not Specified.]

 studyArmType : Code Private

The literal identifier (i.e., distinctive designation) of the study arm type.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) StudyArm

Target: Private studyArmType (Class) Code

 Association (direction: Source -> Destination)













Source: Public (Class) StudyArm

Target: Private studyArmDataOriginType (Class) Code

 Association (direction: Source -> Destination)

Source: Public (Class) StudyCell

Target: Private studyArm (Class) StudyArm

OPERATIONS	
 getStudyArmDataOriginDescription () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyArmDataOriginType () : Code Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyArmDescription () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyArmId () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyArmName () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyArmType () : Code Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyArmDataOriginDescription (studyArmDataOriginDescription : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyArmDataOriginType (studyArmDataOriginType : Code) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyArmDescription (studyArmDescription : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyArmName (studyArmName : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyArmType (studyArmType : Code) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 StudyArm (studyArmId : String) : Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

StudyCell

Class in package 'model'

A partitioning of a study arm into individual pieces, which are associated with an epoch and any number of sequential elements within that epoch.

StudyCell










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ATTRIBUTES	
 studyArm : StudyArm Private	[Is static True. Containment is Not Specified.]
 studyCellId : String Private Const	[Is static True. Containment is Not Specified.]
 studyElements : List<StudyElement> Private	[Is static True. Containment is Not Specified.]
 studyEpoch : StudyEpoch Private	[Is static True. Containment is Not Specified.]

ASSOCIATIONS	
 Association (direction: Source -> Destination)	
Source: Public (Class) StudyCell	Target: Private studyElements (Class) StudyElement Cardinality: [0..*]
 Association (direction: Source -> Destination)	
Source: Public (Class) StudyCell	Target: Private studyArm (Class) StudyArm
 Association (direction: Source -> Destination)	
Source: Public (Class) StudyCell	Target: Private studyEpoch (Class) StudyEpoch
 Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private studyCells (Class) StudyCell Cardinality: [0..*]

OPERATIONS	
 addStudyElement (studyElement : StudyElement) : void Public	

OPERATIONS	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyArm () : StudyArm Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyCellId () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyElements () : List<StudyElement> Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyEpoch () : StudyEpoch Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 removeStudyElement (studyElement : StudyElement) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyArm (studyArm : StudyArm) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyElements (studyElements : List<StudyElement>) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyEpoch (studyEpoch : StudyEpoch) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 StudyCell (studyCellId : String) : Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]













StudyDesign











Class in package 'model'





A plan detailing how a study will be performed in order to represent the phenomenon under examination, to answer the research questions that have been asked, and informing the statistical approach.

StudyDesign
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/1/2023. Last modified 3/1/2023

ATTRIBUTES

ATTRIBUTES	
 activities : List<Activity> Private	[Is static True. Containment is Not Specified.]
 bcCategories : List<BiomedicalConceptCategory> Private	[Is static True. Containment is Not Specified.]
 bcSurrogates : List<BiomedicalConceptSurrogate> Private	[Is static True. Containment is Not Specified.]
 biomedicalConcepts : List<BiomedicalConcept> Private	[Is static True. Containment is Not Specified.]
 encounters : List<Encounter> Private	[Is static True. Containment is Not Specified.]
 interventionModel : Code Private The general design of the strategy for assigning interventions to participants in a clinical study. (clinicaltrials.gov)	[Is static True. Containment is Not Specified.]
 studyCells : List<StudyCell> Private	[Is static True. Containment is Not Specified.]
 studyDesignBlindingScheme : AliasCode Private	[Is static True. Containment is Not Specified.]
 studyDesignDescription : String Private The textual representation of the study design.	[Is static True. Containment is Not Specified.]
 studyDesignId : String Private Const	[Is static True. Containment is Not Specified.]
 studyDesignName : String Private The literal identifier (i.e., distinctive designation) of the study design.	[Is static True. Containment is Not Specified.]
 studyDesignRationale : String Private	[Is static True. Containment is Not Specified.]

ATTRIBUTES	
 studyEstimands : List<Estimand> Private	[Is static True. Containment is Not Specified.]
 studyIndications : List<Indication> Private	[Is static True. Containment is Not Specified.]
 studyInvestigationalInterventions : List<InvestigationalIntervention> Private	[Is static True. Containment is Not Specified.]
 studyObjectives : List<Objective> Private	[Is static True. Containment is Not Specified.]
 studyPopulations : List<StudyDesignPopulation> Private	[Is static True. Containment is Not Specified.]
 studyScheduleTimelines : List<ScheduleTimeline> Private This field provides a collection of all of the ScheduleTimeline objects associated with the StudyDesign.	[Is static True. Containment is Not Specified.]
 therapeuticAreas : List<Code> Private A categorization of a disease, disorder, or other condition based on common characteristics and often associated with a medical specialty focusing on research and development of specific therapeutic interventions for the purpose of treatment and prevention.	[Is static True. Containment is Not Specified.]
 trialIntentType : List<Code> Private The planned purpose of the therapy, device, or agent under study in the clinical trial.	[Is static True. Containment is Not Specified.]
 trialType : List<Code> Private The nature of the interventional study for which information is being collected.	[Is static True. Containment is Not Specified.]
ASSOCIATIONS	
 Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private studyScheduleTimelines (Class) ScheduleTimeline

ASSOCIATIONS	
Cardinality: [0..*]	
 Association (direction: Source -> Destination) Source: Public (Class) StudyDesign	Target: Private studyObjectives (Class) Objective Cardinality: [0..*]
 Association (direction: Source -> Destination) Source: Public (Class) StudyDesign	Target: Private encounters (Class) Encounter Cardinality: [0..*]
 Association (direction: Source -> Destination) Source: Public (Class) StudyDesign	Target: Private activities (Class) Activity Cardinality: [0..*]
 Association (direction: Source -> Destination) Source: Public (Class) StudyDesign	Target: Private studyEstimands (Class) Estimand Cardinality: [0..*]
 Association (direction: Source -> Destination) Source: Public (Class) StudyDesign	Target: Private bcCategories (Class) BiomedicalConceptCategory Cardinality: [0..*]
 Association (direction: Source -> Destination) Source: Public (Class) StudyDesign	Target: Private therapeuticAreas (Class) Code Cardinality: [0..*]
 Association (direction: Source -> Destination) Source: Public (Class) StudyDesign	Target: Private studyInvestigationalInterventions (Class) InvestigationalIntervention Cardinality: [0..*]
 Association (direction: Source -> Destination) Source: Public (Class) StudyDesign	Target: Private bcSurrogates (Class) BiomedicalConceptSurrogate Cardinality: [0..*]

ASSOCIATIONS		
 Association (direction: Source -> Destination)		
Source: Public (Class) StudyDesign		Target: Private biomedicalConcepts (Class) BiomedicalConcept Cardinality: [0..*]
 Association (direction: Source -> Destination)		
Source: Public (Class) StudyDesign		Target: Private studyDesignBlindingScheme (Class) AliasCode
 Association (direction: Source -> Destination)		
Source: Public (Class) StudyDesign		Target: Private studyIndications (Class) Indication Cardinality: [0..*]
 Association (direction: Source -> Destination)		
Source: Public (Class) StudyDesign		Target: Private trialIntentType (Class) Code Cardinality: [0..*]
 Association (direction: Source -> Destination)		
Source: Public (Class) StudyDesign		Target: Private studyPopulations (Class) StudyDesignPopulation Cardinality: [0..*]
 Association (direction: Source -> Destination)		
Source: Public (Class) StudyDesign		Target: Private studyCells (Class) StudyCell Cardinality: [0..*]
 Association (direction: Source -> Destination)		
Source: Public (Class) StudyDesign		Target: Private trialType (Class) Code Cardinality: [0..*]
 Association (direction: Source -> Destination)		
Source: Public (Class) StudyDesign		Target: Private interventionModel (Class) Code
 Association (direction: Source -> Destination)		
Source: Public (Class) Study		Target: Private studyDesigns (Class) StudyDesign

ASSOCIATIONS

Cardinality: [0..*]

OPERATIONS

addStudyIndication (indication : Indication) : void Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

addStudyInvestigationalIntervention (investigationalIntervention : InvestigationalIntervention) : void Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

addStudyObjective (objective : Objective) : void Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getActivities () : List<Activity> Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcCategories () : List<BiomedicalConceptCategory> Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcSurrogates () : List<BiomedicalConceptSurrogate> Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBiomedicalConcepts () : List<BiomedicalConcept> Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]















getEncounters () : List<Encounter> Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]














getInterventionModel () : Code Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]










getStudyCells () : List<StudyCell> Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyDesignBlindingScheme () : AliasCode Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyDesignDescription () : String Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS	
 getStudyDesignId () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyDesignName () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyDesignRationale () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyEstimands () : List<Estimand> Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyIndications () : List<Indication> Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyInvestigationalInterventions () : List<InvestigationalIntervention> Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyObjectives () : List<Objective> Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyPopulations () : List<StudyDesignPopulation> Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyScheduleTimelines () : List<ScheduleTimeline> Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getTherapeuticAreas () : List<Code> Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getTrialIntentType () : List<Code> Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getTrialType () : List<Code> Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 removeStudyIndication (indication : Indication) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 removeStudyInvestigationalIntervention (investigationalIntervention : InvestigationalIntervention) : void Public	

OPERATIONS	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 removeStudyObjective (objective : Objective) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setActivities (activities : List<Activity>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setBcCategories (bcCategories : List<BiomedicalConceptCategory>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setBcSurrogates (bcSurrogates : List<BiomedicalConceptSurrogate>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setBiomedicalConcepts (biomedicalConcepts : List<BiomedicalConcept>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setEncounters (encounters : List<Encounter>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setInterventionModel (interventionModel : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setStudyCells (studyCells : List<StudyCell>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setStudyDesignBlindingScheme (studyDesignBlindingScheme : AliasCode) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setStudyDesignDescription (studyDesignDescription : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setStudyDesignName (studyDesignName : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setStudyDesignRationale (studyDesignRationale : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setStudyEstimands (studyEstimands : List<Estimand>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	

OPERATIONS
 setStudyIndications (studyIndications : List<Indication>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyInvestigationalInterventions (studyInvestigationalInterventions : List<InvestigationalIntervention>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyObjectives (studyObjectives : List<Objective>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyPopulations (studyStudyDesignPopulations : List<StudyDesignPopulation>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyScheduleTimelines (studyScheduleTimelines : List<ScheduleTimeline>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setTherapeuticAreas (therapeuticAreas : List<Code>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setTrialIntentType (trialIntentType : List<Code>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setTrialType (trialType : List<Code>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 StudyDesign (studyDesignId : String) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

StudyDesignPopulation

Class in package 'model'

The population within the general population to which the study results can be generalized.

StudyDesignPopulation
 Version 1.0 Phase 1.0 Proposed
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ATTRIBUTES
 plannedMaximumAgeOfParticipants : String Private [Is static True. Containment is Not Specified.]


ATTRIBUTES

 plannedMinimumAgeOfParticipants : String Private


[Is static True. Containment is Not Specified.]

 plannedNumberOfParticipants : int Private

[Is static True. Containment is Not Specified.]


 plannedSexOfParticipants : List<Code> Private

[Is static True. Containment is Not Specified.]

 populationDescription : String Private

The textual representation of the study population.

[Is static True. Containment is Not Specified.]

 studyDesignPopulationId : String Private Const

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) StudyDesignPopulation

Target: Private plannedSexOfParticipants (Class)
Code

Cardinality: [0..*]

 Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign

Target: Private studyPopulations (Class)
StudyDesignPopulation

Cardinality: [0..*]

OPERATIONS

 getPlannedMaximumAgeOfParticipants () : String Public










[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getPlannedMinimumAgeOfParticipants () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getPlannedNumberOfParticipants () : int Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS
 <code>getPlannedSexOfParticipants () : List<Code> Public</code> [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 <code>getPopulationDescription () : String Public</code> [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 <code>getStudyDesignPopulationId () : String Public</code> [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 <code>setPlannedMaximumAgeOfParticipants (plannedMaximumAgeOfParticipants : String) : void Public</code> [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 <code>setPlannedMinimumAgeOfParticipants (plannedMinimumAgeOfParticipants : String) : void Public</code> [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 <code>setPlannedNumberOfParticipants (plannedNumberOfParticipants : int) : void Public</code> [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 <code>setPlannedSexOfParticipants (plannedSexOfParticipants : List<Code>) : void Public</code> [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 <code>setPopulationDescription (populationDescription : String) : void Public</code> [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 <code>StudyDesignPopulation (uuid : String) : Public</code> [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

StudyElement

Class in package 'model'

A basic building block for time within a clinical study comprising the following characteristics: a description of what happens to the subject during the element; a definition of the start of the element; a rule for ending the element.

StudyElement

Version 1.0 Phase 1.0 Proposed


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ATTRIBUTES
 <code>studyElementDescription : String Private</code>

ATTRIBUTES


The textual representation of the study design element.

[Is static True. Containment is Not Specified.]

 studyElementId : String Private Const


element only attributes - these purely describe an element

[Is static True. Containment is Not Specified.]

 studyElementName : String Private

The literal identifier (i.e., distinctive designation) of the study design element.

[Is static True. Containment is Not Specified.]

 transitionEndRule : Condition Private

[Is static True. Containment is Not Specified.]

 transitionStartRule : Condition Private

all elements point to transition rules Are transitionRules the same as conditions? Should eventing, etc..be different based on the existence of a condition vs a transitionRule? are Conditions unscripted and transition rules scripted?

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) StudyElement

Target: Private transitionStartRule (Class)
Condition

 Association (direction: Source -> Destination)

Source: Public (Class) StudyElement


Target: Private transitionEndRule (Class) Condition

 Association (direction: Source -> Destination)










Source: Public (Class) StudyCell

Target: Private studyElements (Class)
StudyElement
Cardinality: [0..*]

OPERATIONS

 getStudyElementDescription () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS
 getStudyElementId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getStudyElementName () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getTransitionEndRule () : Condition Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getTransitionStartRule () : Condition Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyElementDescription (studyElementDescription : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setStudyElementName (studyElementName : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setTransitionEndRule (transitionEndRule : Condition) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setTransitionStartRule (transitionStartRule : Condition) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 StudyElement (studyElementId : String) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

StudyEpoch


Class in package 'model'

A named time period defined in the protocol, wherein a study activity is specified and unchanging throughout the interval, to support a study-specific purpose.

StudyEpoch
Version 1.0 Phase 1.0 Proposed
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ATTRIBUTES
 encounters : List<Encounter> Private <div style="text-align: right;">[Is static True. Containment is Not Specified.]</div>

ATTRIBUTES

 nextStudyEpochId : String Private


A system identifier assigned to the epoch that occurs immediately after the current epoch.

[Is static True. Containment is Not Specified.]

 previousStudyEpochId : String Private


A system identifier assigned to the epoch that occurs immediately prior to the current epoch.

[Is static True. Containment is Not Specified.]


 studyEpochDescription : String Private

The textual representation of the study epoch.

[Is static True. Containment is Not Specified.]


 studyEpochId : String Private Const

[Is static True. Containment is Not Specified.]

 studyEpochName : String Private

The literal identifier (i.e., distinctive designation) of the study epoch, i.e., the named time period defined in the protocol, wherein a study activity is specified and unchanging throughout the interval, to support a study-specific purpose.

[Is static True. Containment is Not Specified.]

 studyEpochType : Code Private

A characterization or classification of the study epoch, i.e., the named time period defined in the protocol, wherein a study activity is specified and unchanging throughout the interval, to support a study-specific purpose.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) StudyEpoch

Target: Private encounters (Class) Encounter

Cardinality: [0..*]

 Association (direction: Source -> Destination)

Source: Public (Class) StudyEpoch

Target: Private studyEpochType (Class) Code

 Association (direction: Source -> Destination)

ASSOCIATIONS

Source: Public (Class) StudyCell

Target: Private studyEpoch (Class) StudyEpoch

OPERATIONS

✦ getEncounters () : List<Encounter> Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ getNextStudyEpochId () : String Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ getPreviousStudyEpochId () : String Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ getStudyEpochDescription () : String Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ getStudyEpochId () : String Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ getStudyEpochName () : String Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ getStudyEpochType () : Code Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ setEncounters (encounters : List<Encounter>) : void Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]



✦ setNextStudyEpochId (nextStudyEpochId : String) : void Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ setPreviousStudyEpochId (previousStudyEpochId : String) : void Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ setStudyEpochDescription (studyEpochDescription : String) : void Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ setStudyEpochName (studyEpochName : String) : void Public
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS

-  **setStudyEpochType** (studyEpochType : Code) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
-  **StudyEpoch** (studyEpochId : String) : Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]




StudyIdentifier

Class in package 'model'

A sequence of characters used to identify, name, or characterize the study.

StudyIdentifier
Version 1.0 Phase 1.0 Proposed
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ATTRIBUTES

-  **studyIdentifier** : String Private
A sequence of characters used to identify, name, or characterize the study.
[Is static True. Containment is Not Specified.]
-  **studyIdentifierId** : String Private Const
[Is static True. Containment is Not Specified.]
-  **studyIdentifierScope** : Organization Private
[Is static True. Containment is Not Specified.]

ASSOCIATIONS

-  **Association** (direction: Source -> Destination)
Source: Public (Class) StudyIdentifier
Target: Private studyIdentifierScope (Class) Organization
-  **Association** (direction: Source -> Destination)
Source: Public (Class) Study
Target: Private studyIdentifiers (Class) StudyIdentifier
Cardinality: [0..*]

OPERATIONS

OPERATIONS	
 <code>getStudyIdentifier () : String Public</code> [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 <code>getStudyIdentifierId () : String Public</code> [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 <code>getStudyIdentifierScope () : Organization Public</code> [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 <code>setStudyIdentifier (studyIdentifier : String) : void Public</code> [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 <code>setStudyIdentifierScope (studyIdentifierScope : Organization) : void Public</code> [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 <code>StudyIdentifier (studyIdentifierId : String) : Public</code> [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	

StudyProtocolVersion

Class in package 'model'

A plan at a particular point in time for a formal investigation to assess the utility, impact, pharmacological, physiological, and/or psychological effects of a particular treatment, procedure, drug, device, biologic, food product, cosmetic, care plan, or subject characteristic. (BRIDG)

StudyProtocolVersion
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/1/2023. Last modified 3/1/2023

ATTRIBUTES	
 <code>briefTitle : String Private</code> The short descriptive name for the protocol. [Is static True. Containment is Not Specified.]	
 <code>officialTitle : String Private</code> The formal descriptive name for the protocol. [Is static True. Containment is Not Specified.]	
 <code>protocolAmendment : String Private</code>	

ATTRIBUTES


A written description of a change(s) to, or formal clarification of, a protocol. (ICH E6)

[Is static True. Containment is Not Specified.]

 protocolEffectiveDate : Date Private


The date and time specifying when the protocol amendment takes effect or becomes operative.

[Is static True. Containment is Not Specified.]

 protocolStatus : Code Private


A condition of the protocol at a point in time with respect to its state of readiness for implementation.

[Is static True. Containment is Not Specified.]

 protocolVersion : String Private


A plan at a particular point in time for a formal investigation to assess the utility, impact, pharmacological, physiological, and/or psychological effects of a particular treatment, procedure, drug, device, biologic, food product, cosmetic, care plan, or subject characteristic. (BRIDG)

[Is static True. Containment is Not Specified.]

 publicTitle : String Private


The descriptive name of the protocol that is intended for the lay public, written in easily understood language.

[Is static True. Containment is Not Specified.]

 scientificTitle : String Private

A more extensive descriptive name of the protocol that is intended for medical professionals, written using medical and scientific language.

[Is static True. Containment is Not Specified.]

 studyProtocolVersionId : String Private Const

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) StudyProtocolVersion

Target: Private protocolStatus (Class) Code

 Association (direction: Source -> Destination)

Source: Public (Class) Study

Target: Private studyProtocolVersions (Class)
StudyProtocolVersion

Cardinality: [0..*]

ASSOCIATIONS

OPERATIONS

✦ **getBriefTitle () : String Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ **getOfficialTitle () : String Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ **getProtocolAmendment () : String Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ **getProtocolEffectiveDate () : Date Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ **getProtocolStatus () : Code Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ **getProtocolVersion () : String Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ **getPublicTitle () : String Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ **getScientificTitle () : String Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ **getStudyProtocolVersionId () : String Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ **setBriefTitle (briefTitle : String) : void Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ **setOfficialTitle (officialTitle : String) : void Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ **setProtocolAmendment (protocolAmendment : String) : void Public**
 [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

✦ **setProtocolEffectiveDate (protocolEffectiveDate : Date) : void Public**




OPERATIONS	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setProtocolStatus (protocolStatus : Code) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setProtocolVersion (protocolVersion : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setPublicTitle (publicTitle : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setScientificTitle (scientificTitle : String) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 StudyProtocolVersion (studyProtocolVersionId : String) : Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Timepoint

Class in package 'model'

The Timepoint class is used to link activities and encounters to a schedule timeline.

Timepoint
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/1/2023. Last modified 3/1/2023

ATTRIBUTES	
 entryTimelineId : String Private	
<p>In the diagram, this is timelineEntryId but I'm worried that will be misinterpreted since it's just a string. I propose entryTimelineId because it points to the entry to a new timeline. if this is the case, then we don't have to have this timepoint branch to another timepoint, but to another timeline. Thoughts?</p>	[Is static True. Containment is Not Specified.]
 nextTimepointIds : List<String> Private	[Is static True. Containment is Not Specified.]
 previousTimepointIds : List<String> Private	
<p>when referencing objects from the timeline, it's important to use id references because the API JSON payload would result in duplicate expressions of objects pointing to the timeline. This assumption should be asserted. All of these fields below should be defined as relationships in the CT. In particular for pointers between timepoints, it seems to me that there should be some</p>	

ATTRIBUTES


clear understanding that only a Branch type timepoint is capable of pointing to more than one previous or next timepoint. Am I misunderstanding the the use of the type attribute?

[Is static True. Containment is Not Specified.]

 timepointActivityIds : List<String> Private


This is the only way to associate activities with timepoints, as we've decided that the cardinality from timepoint to activities is one to many, correct?

[Is static True. Containment is Not Specified.]

 timepointCondition : Condition Private


The condition that may be associated with the timepoint, if the timepoint is of type branch (according to the presentation material). Even though a condition could or should be re-used across multiple timepoints and/or entries this reference should be an object reference as there would be no other object reference available to ensure inclusion in the JSON payload (to my understanding)

[Is static True. Containment is Not Specified.]

 timepointDescription : String Private

The textual representation of the timepoint.

[Is static True. Containment is Not Specified.]

 timepointEncounterId : String Private


I'm somewhat confused as to why an encounter has multiple touchpoints in the timeline, but I haven't heard of a broad set of use cases for traversal of the timeline. You can get to a timepoint from an encounter via a timing. You then have a circular reference from the timing via the timepoint. There is potential for these to be out of sync as well, correct?

[Is static True. Containment is Not Specified.]

 timepointExitId : String Private

Unsure of the necessity of this id reference to an actual Exit class. It seems to make sense to associate an exit condition and maybe an exit flag to a timepoint. What attributes are required to be associated with an Exit that should be solely contained in an Exit class? Maybe just saying a timepoint is a final timepoint is just as intuitive?

[Is static True. Containment is Not Specified.]

 timepointId : String Private Const

[Is static True. Containment is Not Specified.]

 timepointScheduledAt : Timing Private

Must assume this is an object reference as no other references exist in the model except for Encounter and that would not necessarily be the same timepoint being referenced, so no duplication will likely exist. This could be considered an attribute of the timepoint because I'm not sure that the timing has any value outside of its inclusion in the timepoint data (except for maybe...reuse?)

[Is static True. Containment is Not Specified.]

ATTRIBUTES

 **timepointType** : Code Private

Denotes the type timepoint object added to the timeline. The value can be either a node, a decision or a branch. a branch being used to link alternate or sub-timelines to an existing timeline.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) Timepoint

Target: Private timepointCondition (Class)
Condition

 Association (direction: Source -> Destination)

Source: Public (Class) Timepoint

Target: Private timepointType (Class) Code

 Association (direction: Source -> Destination)


Source: Public (Class) Timepoint

Target: Private timepointScheduledAt (Class)
Timing


OPERATIONS

 **getEntryTimelineId ()** : String Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 **getNextTimepointIds ()** : List<String> Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 **getPreviousTimepointIds ()** : List<String> Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 **getTimepointActivityIds ()** : List<String> Public














[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 **getTimepointCondition ()** : Condition Public




[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 **getTimepointDescription ()** : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS
 getTimepointEncounterId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getTimepointExitId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getTimepointId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getTimepointScheduledAt () : Timing Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getTimepointType () : Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setEntryTimelineId (entryTimelineId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setNextTimepointIds (nextTimepointIds : List<String>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setPreviousTimepointIds (previousTimepointIds : List<String>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setTimepointActivityIds (timepointActivityIds : List<String>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setTimepointCondition (timepointCondition : Condition) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setTimepointDescription (timepointDescription : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setTimepointExitId (timepointExitId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setTimepointScheduledAt (timepointScheduledAt : Timing) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS

 setTimepointType (timepointType : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setWorkflowItemEncounter (workflowItemEncounterId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 Timepoint (timepointId : String) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Timing

Class in package 'model'





The Timing class is used to relate ScheduledInstance objects. In graph, this information would likely sit on relationship that exists between ScheduledInstances. ScheduledInstances have no information regarding their relationships with other ScheduledInstances in a ScheduleTimeline. This is where that information is captured. In a typical GANTT chart, these are the arrows you see between the task boxes that tell us how the work should be sequenced.

Timing


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ATTRIBUTES


 relativeFromScheduledInstanceId : String Private This field defines the ScheduledInstance object that the timing defines as the anchor. When we define a timing relationship between two ScheduledInstances, one instance is the from and the other is the to in what is essentially a "timing between" constraint. [Is static True. Containment is Not Specified.]
 relativeToScheduledInstanceId : String Private This field defines the ScheduledInstance object that has the timing constraint associated with the anchor instance. This is the instance that has the "timingRelativeToFrom" constraint associated with the fromScheduledInstance object. [Is static True. Containment is Not Specified.]
 timingId : String Private Const [Is static True. Containment is Not Specified.]
 timingRelativeToFrom : Code Private Code values that describe the timing relative to the associated timepoint, I believe. Somewhat unsure here. Values are typical of gant task relationship dependencies. They are: StartToStart, StartToEnd, EndToEnd and EndToStart. [Is static True. Containment is Not Specified.]

ATTRIBUTES

 timingType : Code Private


Code values that describe the type of timing. Valid values include Before, After and Absolute.

[Is static True. Containment is Not Specified.]

 timingValue : String Private

According to the presentation, the value will be provide further context based on the type of the timing. For example, if the timing type is absolute then maybe something like "first dose, day 0" and if the type is Before it could be "1 day before x".

[Is static True. Containment is Not Specified.]

 timingWindow : String Private

Defines window of time associated with the timing. We could either define slack or lead time as two variables to ensure consistency however, this can be inferred along with the timingRelativeToFrom value.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) Timing

Target: Private timingRelativeToFrom (Class) Code

 Association (direction: Source -> Destination)

Source: Public (Class) Timing

Target: Private timingType (Class) Code

 Association (direction: Source -> Destination)

Source: Public (Class) Encounter

Target: Private encounterScheduledAt (Class) Timing

 Association (direction: Source -> Destination)

Source: Public (Class) ScheduledDecisionInstance


Target: Private conditionTimings (Class) Timing
Cardinality: [0..*]














 Association (direction: Source -> Destination)

Source: Public (Class) Timepoint

Target: Private timepointScheduledAt (Class) Timing

OPERATIONS

 getRelativeFromScheduledInstanceId () : String Public

OPERATIONS	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getRelativeToScheduledInstanceId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getTimingId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getTimingRelativeToFrom () : Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getTimingType () : Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getTimingValue () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getTimingWindow () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setRelativeFromScheduledInstanceId (relativeFromScheduledInstanceId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setRelativeToScheduledInstanceId (relativeToScheduledInstanceId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setTimingRelativeToFrom (timingRelativeToFrom : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setTimingType (timingType : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setTimingValue (timingValue : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setTimingWindow (timingWindow : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 Timing (timingId : String) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	

OPERATIONS

TransitionRule

Class in package 'model'

TransitionRule
Version 1.0 Phase 1.0 Proposed
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ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) Encounter

Target: Private transitionEndRule (Class)
TransitionRule

 Association (direction: Source -> Destination)

Source: Public (Class) Encounter

Target: Private transitionStartRule (Class)
TransitionRule