

Api docs

Contents

Data Structures	4
Sumti	4
BridiReference	4
StoreCommand	5
InezProblem	5
Bridi	5
Delegates	5
InezImpl	5
API	5
dependencies	6
BridiElement	6
API	6
dependencies	6
Services	7
CreateBridisFromParserOutputService	7
Description	7
API	7
dependencies	7
CreateBridisFromDefinitionService	7
Description	7
API	7
dependencies	7
QueryProcessorService	8
Description	8
API	8
dependencies	8
GetServiceByNameService	8
Description	8
API	8
dependencies	9
CreateBridisFromQueryService	9
Description	9

API	9
dependencies	9
FindBridiByIdService	9
Description	9
API	9
dependencies	9
NotifyStoreChangeService	9
Description	9
API	9
dependencies	9
DeleteBridiService	9
Description	9
API	10
dependencies	10
FindAllIdByRepresentationService	10
Description	10
API	10
dependencies	10
RemoveReferencesService	10
Description	10
API	10
dependencies	10
CreateBridiFromSumtiService	11
Description	11
API	11
dependencies	11
FindAllByRepresentationService	11
Description	11
API	11
dependencies	11
AddReferencesService	11
Description	11
API	11
dependencies	11
SaveBridiService	12
Description	12
API	12
dependencies	12
GetBridiIdBySelbriAndSumtiIdsService	12
Description	12
API	12
dependencies	12
CreateSumtiService	13
Description	13
API	13
dependencies	13

CreateBridiElementService	13
Description	13
API	13
dependencies	13
GetBridiElementRepresentationService	14
Description	14
API	14
dependencies	14
BridiElementFactory	14
Description	14
API	14
dependencies	14
BridiElementSystemInitializationService	14
Description	14
API	15
dependencies	15
GetBridiElementTypeService	15
Description	15
API	15
dependencies	15
IsInstanceService	15
Description	15
API	15
dependencies	15
GetBridiElementReferencesService	15
Description	15
API	15
dependencies	16
GetBridiElementTypeIdService	16
Description	16
API	16
dependencies	16
GetBridiElementParentService	16
Description	16
API	16
dependencies	16
GetBridiElementReferenceIdsService	16
Description	16
API	16
dependencies	16
IsOfTypeService	16
Description	16
API	16
dependencies	17
RepresentBridiElementService	17
Description	17

API	17
dependencies	17
GetRelativeForBridiElementService	17
Description	17
API	17
dependencies	17
GetBridiElementChildrenService	17
Description	17
API	17
dependencies	17
Save	18
Description	18
API	18
dependencies	18
Repositories	18
BridiStoreHistoryRepository	18
Query definitions	18
BridiReferenceRepository	18
Query definitions	18
SumtiRepository	18
Query definitions	19
ProblemRepository	19
Query definitions	19
Utilities	19
Glue	19
TestConfig	19
API	19
BridiStoreChangeListener	19
API	19
Inez	19
API	19

Data Structures

Sumti

- String id
- String representation

BridiReference

- String id
- String bridId

- String selbriId
- position
- String sumtiId

StoreCommand

- Integer id
- BridiStoreOperation operation
- Bridi old
- Bridi now

InezProblem

- String id
- String category
- Sumti sumti

Bridi

- String id
- String representation
- List<String> references

Delegates

InezImpl

API

- initialize()
- registerListener(BridiStoreChangeListener listener)
- unregisterListener(BridiStoreChangeListener listener)
- Stream<Bridi> query(String query)
- Stream<Bridi> create(String query)
- Set<Bridi> save(Collection<Bridi> values)
- Stream<Bridi> findAllByRepresentation(String representation)
- Optional<Bridi> findById(String id)
- Sumti createSumti(String idString representation)
- BridiReferenceRepository getBridiReferenceRepository()
- Stream<Bridi> createFromdefinitions(String definitionName)
- BridiElement root()

- BridiElement byId(String id)
- ProblemRepository getProblems()

dependencies

- BridiStoreChangeListenerService
- QueryProcessorService
- BridiStoreHistoryRepository
- BridiReferenceRepository
- CreateBridiFromSumtiService
- SaveBridiService
- DeleteBridiService
- FindBridiByIdService
- GetBridiIdBySelbriAndSumtiIdsService
- FindAllIdByRepresentationService
- FindAllByRepresentationService
- BridiElementSystemInitializationService
- BridiElementFactory
- CreateBridisFromQueryService
- CreateSumtiService
- ProblemRepository
- CreateBridisFromDefinitionService

BridiElement

API

- fixParent()
- String getRepresentation()
- Stream<BridiElement> getChildren()
- BridiElement getType()
- Stream<BridiElement> getReferences()
- BridiElement getParent()
- String toXml()
- String toString()
- isInstance(String typeId)
- BridiElement create(String containerIdString typeIdString representation references)

dependencies

- GetBridiElementRepresentationService

- GetRelativeForBridiElementService
- GetBridiElementChildrenService
- GetBridiElementParentService
- GetBridiElementTypeService
- GetBridiElementReferencesService
- RepresentBridiElementService
- SumtiRepository
- BridiReferenceRepository
- AddReferencesService
- IsInstanceService
- CreateBridiElementService
- BridiElementFactory
- IsOfTypeService
- GetBridiElementReferenceIdsService
- GetBridiElementTypeIdService

Services

CreateBridisFromParserOutputService

Description

creates a list of bridis from the output of the parser - does not save them

API

- Stream<Bridi> apply(ParserOutput parserOutput)
- Stream<Bridi> apply(String topMap<StringList<String>» refMap)

dependencies

- SumtiRepository

CreateBridisFromDefinitionService

Description

API

- Stream<Bridi> apply(String definitionName)

dependencies

- CreateBridisFromQueryService

QueryProcessorService

Description

for a nonexistent sumti returns the empty list

for an existing sumti returns the sumti

if more sumtis exist with the representation, return them all

for a reference, return the referenced brid

for a reference to a nonexistent brid, return an empty list

for a brid with the matching representation returns it

for a brid where the representation does not match, but the selbri and sumties do, finds it

'\$?' returns a list of the any sumti

for a brid where one of the sumties is '\$?', the matching bridies return

for a brid where all of the sumties is '\$?', a ParseCancellationException is thrown

if no stored brid matches the query with '\$?', and empty list is returned

query works with the '\$?' being deep down in the query

API

- Stream<Bridi> apply(String query)
- Stream<Bridi> apply(ParserOutput parserOutput)

dependencies

- ParseTextService
- FindAllByRepresentationService
- FindAllIdByRepresentationService
- GetBridIdBySelbriAndSumtiIdsService
- FindBridByIdService
- GetRelativeForBridiElementService
- GetServiceByNameService

GetServiceByNameService

Description

API

- BridiFunction apply(String serviceName)

dependencies

- ApplicationContext
- LoggerService

CreateBridisFromQueryService

Description

API

- Stream<Bridi> apply(String query)

dependencies

- ParseTextService
- CreateBridisFromParserOutputService
- SaveBridiService
- BridiElementFactory

FindBridiByIdService

Description

finds the bridid by Id

returns empty if no bridid found

API

- Optional<Bridi> apply(String id)

dependencies

- CreateBridiFromSumtiService
- SumtiRepository

NotifyStoreChangeService

Description

API

- apply(BridiStoreOperation saveObject objectBridi thing)

dependencies

DeleteBridiService

Description

delete deletes the bridid and returns it

- if there was no such bridi saved, a NoSuchElementException is thrown
- the references are cleared
- the id and representation are cleared from the repository
- notifies about the store change

API

- Bridi apply(Bridi bridi)

dependencies

- SumtiRepository
- RemoveReferencesService
- NotifyStoreChangeService

FindAllIdByRepresentationService

Description

returns the ids of all the sumties with the given representation

API

- Stream<String> apply(String representation)

dependencies

- SumtiRepository

RemoveReferencesService

Description

removes references from the BridiReferenceRepository - removes all the sumti references for the bridi

API

- apply(String bridiIdList<String> references)

dependencies

- BridiReferenceRepository

CreateBridiFromSumtiService

Description

creates a brid from the sumti

API

- Bridi apply(Sumti sumti)

dependencies

- BridiReferenceRepository

FindAllByRepresentationService

Description

finds all bridis based on a representation

API

- Stream<Bridi> apply(String representation)

dependencies

- SumtiRepository
- CreateBridiFromSumtiService

AddReferencesService

Description

adds all the references of the brid to the repository

if references is null, does nothing

for null references does nothing

for empty references does nothing

for each reference adds an entry to the bridireferencerepository

API

- apply(String idList<String> references)

dependencies

- BridiReferenceRepository

SaveBridiService

Description

saving a bridi returns the old bridi if exists, and

- looks up the existing version of the sumti
- if there was an existing version, - then creates a bridi from it
- and cleans its references
- stores the id and representation in the sumtiRepository
- adds the references
- adds the save operation to the history with SAVE, the old and new bridi
- if there was no previous sumti, uses null in the history for it

the form with collection parameter saves all the bridis

API

- Set<Bridi> apply(Collection<Bridi> values)
- Bridi apply(Bridi bridi)

dependencies

- SumtiRepository
- NotifyStoreChangeService
- CreateBridiFromSumtiService
- RemoveReferencesService
- AddReferencesService

GetBridiIdBySelbriAndSumtiIdsService

Description

returns the ids of all bridies with the given sumti, and with the given selbri in the given position

API

- Stream<String> apply(String selbriIdString sumtiId position)

dependencies

- BridiReferenceRepository

CreateSumtiService

Description

API

- Sumti apply(String idString representation)

dependencies

- SumtiRepository

CreateBridiElementService

Description

saves 3 bridis

the first one is the element

with the given representation

and the given references

the second one is '{@elementId} is a {@typeId}'

the representation of the second one uses actual representations

the third one is '{@containerId} contains {@elementId}'

the representation of the third one uses actual representations

the references are saved

if the type does not exist, an IllegalArgumentException is thrown

if the container does not exist, an IllegalArgumentException is thrown

if the there is a nonexisting reference, an IllegalArgumentException is thrown

API

- BridiElement apply(String containerIdString typeIdString representation references)

dependencies

- SaveBridiService
- FindBridiByIdService
- BridiElementFactory

GetBridiElementRepresentationService

Description

API

- String apply(String id)

dependencies

- SumtiRepository

BridiElementFactory

Description

API

- BridiElement apply(String id)

dependencies

- AutowireCapableBeanFactory

BridiElementSystemInitializationService

Description

creates sumti IS_A

creates sumti CONTAINS

creates sumti ROOT

creates sumti THING

creates sumti CONTAINER

creates sumti UNPLACED

creates sumti TRUE

creates sumti FALSE

creates sumti IS_FUNCTION_FOR

creates sumti SAVE_FUNCTION_REF

creates sumti DOSAVE

creates sumti DIAGRAM

creates sumti DIAGRAM_ELEMENT

creates bridis from the definition file

logs success

API

- apply()

dependencies

- InezImpl
- LoggerService

GetBridiElementTypeService

Description

API

- BridiElement apply(String id)

dependencies

- GetBridiElementTypeIdService
- BridiElementFactory

IsInstanceService

Description

for noninstance returns false

for direct instance returns true

for indirect instance returns true

everything is a thing

API

- apply(String objectIdString typeId)

dependencies

- GetRelativeForBridiElementService

GetBridiElementReferencesService

Description

API

- Stream<BridiElement> apply(String id)

dependencies

- GetBridiElementReferenceIdsService
- BridiElementFactory

GetBridiElementTypeIdService**Description****API**

- String apply(String id)

dependencies

- GetRelativeForBridiElementService

GetBridiElementParentService**Description****API**

- String apply(String id)

dependencies

- GetRelativeForBridiElementService
- SumtiRepository
- BridiReferenceRepository

GetBridiElementReferenceIdsService**Description****API**

- Stream<String> apply(String id)

dependencies

- BridiReferenceRepository

IsOfTypeService**Description****API**

- apply(String idString typeId)

dependencies

- GetBridiElementTypeIdService

RepresentBridiElementService

Description

API

- String apply(String id)

dependencies

- GetBridiElementRepresentationService
- GetBridiElementChildrenService
- GetBridiElementParentService
- GetBridiElementTypeService
- GetBridiElementReferenceIdsService

GetRelativeForBridiElementService

Description

API

- Stream<String> apply(String idString selbriId fromPosition toPosition)

dependencies

- BridiReferenceRepository

GetBridiElementChildrenService

Description

API

- Stream<BridiElement> apply(String id)

dependencies

- GetRelativeForBridiElementService
- BridiReferenceRepository
- BridiElementFactory

Save

Description

API

- `Stream<Bridi> apply(String topList<String> partList notAnyIndexList<Set<String>» foundIds)`

dependencies

- `InezImpl`
- `ParseTextService`

Repositories

BridiStoreHistoryRepository

- extends: `CrudRepository`
- stores: `StoreCommand`
- id: `String`

Query definitions

BridiReferenceRepository

- extends: `CrudRepository`
- stores: `BridiReference`
- id: `String`

Query definitions

- `Set<BridiReference> findAllByBridiId(String id)`
- `Set<BridiReference> findAllBySelbriIdAndSumtiIdAndPosition(String selbriIdString sumtiId position)`
- `deleteBybridIdAndPositionAndSumtiId(String bridIdInteger position-String sumtiId)`
- `Optional<BridiReference> findByBridiIdAndPosition(String bridId i)`
- `Set<BridiReference> findAllByBridiIdAndPosition(String bridId i)`

SumtiRepository

- extends: `CrudRepository`
- stores: `Sumti`
- id: `String`

Query definitions

- Set<Sumti> findAllByRepresentation(String representation)

ProblemRepository

- extends: CrudRepository
- stores: InezProblem
- id: String

Query definitions

Utilities

Glue

TestConfig

API

BridiStoreChangeListener

API

- listen(StoreCommand operation)

Inez

API

- registerListener(BridiStoreChangeListener listener)
- unregisterListener(BridiStoreChangeListener listener)
- Stream<Bridi> query(String query)
- Stream<Bridi> create(String query)
- Sumti createSumti(String idString representation)
- Set<Bridi> save(Collection<Bridi> values)
- Stream<Bridi> findAllByRepresentation(String representation)
- Optional<Bridi> findById(String string)
- Stream<Bridi> createFromdefinitions(String string)
- BridiElement root()
- BridiElement byId(String id)