Package 'I2B2API'

May 28, 2015

Title API to i2b2 that is exposed to the R IDE

Version 1.0

Description
This documentation describes the available functions that can be used in the R-IDE web interface.

Depends R (>= 3.0.2)

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LazyData true

R topics documented:

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getConcepts   *Get the prefixes of all concepts that start with anything from the concepts list (all concepts by default)*

Description

Get the prefixes of all concepts that start with anything from the concepts list (all concepts by default)

Arguments

`concepts`	list of concepts to be compared to. Defaults to empty, meaning any prefix.
`level`	Aggregates ICD codes, e.g. Level 3 = ICD:M54*, Level 1: ICD:M*

Value

list of distinct concept_cd prefixes

Examples

```
getConcepts()
getConcepts(c('K'), 3)
```

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getObservations   *Get all observations with specified properties*

Description

Get all observations with specified properties

Arguments

`interval`	specifies the time frame where the observations should come from
`concepts`	specifies a subset where the observations should come from. Default is any concept.
`level`	specifies ICD level to aggregate, e.g. Level 3 = ICD:M54*, Level 1: ICD:M*
`patient_set`	id of the desired patient set, defaults to -1

Value

list of observations with attributes patient_num, concept_cd_sub

Examples

```
getObservations(list(start=i2b2DateToPOSIXlt("01/01/2009"), end=i2b2DateToPOSIXlt("01/01/2010")),
  concepts=c("\\ICD\\", "\\ATC\\"), level=3, patient_set=-1)
getObservations(list(start=i2b2DateToPOSIXlt("01/01/2009"), end=i2b2DateToPOSIXlt("01/01/2010")),
  concepts=c("\\ICD\\M00-M99\\M50-M54\\M54"), level=3, patient_set=-1)
```

```
GetObservationsForConcept
```
Get all observations for a specified concept with specified properties

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Description

Get all observations for a specified concept with specified properties

Arguments

`interval`	specifies the time frame where the observations should come from
`concept.path`	specifies the path for the concept where the observations should come from.
`patient_set`	id of the desired patient set, defaults to -1

Value

list of observations with attributes patient_num, concept_cd_sub, counts

Examples

```
getObservationsForConcept(list(start=i2b2DateToPOSIXlt("01/01/2009"), end=i2b2DateToPOSIXlt("01/01/2010")),
  concept.path="\\ICD\\M00-M99\\M50-M54\\M54\\", patient_set=-1)
```

```
getObservationsWithLimit
```
Get observations with a limit to speed up development

Description

Get observations with a limit to speed up development

Arguments

`interval`	specifies start and end of the interval in a list
`concepts`	list of concepts for the observations
`level`	specifies the aggregation level of concepts
`patients_limit`	limit of observations to be returned

Value

list of observations with patient_num, concept_cd>sub, counts

Examples

```
getObservationsWithLimit(start=i2b2DateToPOSIXlt("01/01/2009"), end=i2b2DateToPOSIXlt("01/01/2010")),
  concepts=c("\\ICD\\"), level=3, patients_limit=1000)
```

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getPatients   *Get all patients of a patient set*

Description

Get all patients of a patient set

Arguments

patient_set   Id of the desired patient set

Value

list of patients with patient_num, sex_cd, birth_date

Examples

```
getPatients(patient_set=-1)
```

GetPatientSetDescription
                        Get the description of a patient set

Description

Get the description of a patient set

Arguments

patient_set   Id of the desired patient set

Value

string with description of the patient set

Examples

```
getPatientSetDescription(patient_set=42)
```

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getPatientsWithLimit *Get patients of a patient set with a limit to speed up development*

Description

Get patients of a patient set with a limit to speed up development

Arguments

patient_set	Id of the desired patient set
limit	limit of patients to be returned

Value

list of patients with patient_num, sex_cd, birth_date

Examples

```
getPatients(patient_set=-1, limit=100)
```

Index