Package 'Hydra'

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Type Package

Title Hydrating Package Skeletons into Executable R Study Packages

Version 0.3.0

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Description An R package and Java library for hydrating package skeletons into executable R study packages based on specifications in JSON format.

License Apache License 2.0

VignetteBuilder knitr

URL https://ohdsi.github.io/Hydra, https://github.com/OHDSI/Hydra

BugReports https://github.com/OHDSI/Hydra/issues

Depends R (>= 3.5.0),

Imports rJava,
utils

Suggests testthat,
knitr,
rmarkdown,
renv,
DatabaseConnector,
devtools,
RJSONIO

NeedsCompilation no

RoxygenNote 7.1.2

Language en-US

Encoding UTF-8

R topics documented:

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hydrate *Hydrate a package skeleton according to study specifications*

Description

Hydrate a package skeleton according to study specifications

Usage

```
hydrate(
  specifications,
  outputFolder,
  skeletonFileName = NULL,
  packageName = NULL
)
```

Arguments

specifications	A string containing JSON specifications for hydrating the study. Specifications will be generated by ATLAS.
outputFolder	The folder where the hydrated package will be stored.
skeletonFileName	
	(Mostly for debugging purposes:) Specify the location of a package skeleton to hydrate. If not specified, the appropriate skeleton will be selected from those inside the Hydra package.
packageName	The name of the R package to create. If provided, will override the packageName variable in the specifications JSON.

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listSkeletons *List skeletons included in Hydra*

Description

List skeletons included in Hydra

Usage

```
listSkeletons()
```

Value

A vector of skeleton names.

Examples

```
listSkeletons()
```

loadSpecifications	*Load specifications from a JSON file*

Description

Load specifications from a JSON file

Usage

```
loadSpecifications(fileName)
```

Arguments

fileName   Path to the JSON file

Value

A string representation of the JSON.

prepareForOfflineStudyPackageExecution	
	Prepare system to run hydrated packages without further internet connection

Description

Prepare system to run hydrated packages without further internet connection

Usage

```
prepareForOfflineStudyPackageExecution(
  installRpackages = TRUE,
  installJdbcDrivers = TRUE,
  skeletons = listSkeletons()
)
```

Arguments

installRpackages

Install the R packages required by the skeletons?

installJdbcDrivers

Install all JDBC drivers? Requires the DATABASECONNECTOR_JAR_FOLDER environmental variable to be set.

skeletons   A list of skeletons to check, for example 'CohortDiagnosticsStudy_v0.0.1.zip'.

Details

Note that when `installJdbcDrivers` = `TRUE` this will only include the Jar drivers supported by DatabaseConnector::downloadJdbcDrivers. Other drivers (like BigQuery) will need to be downloaded manually and placed in the folder identified by the DATABASECONNECTOR_JAR_FOLDER environmental variable.

Use `list.files(system.file("skeletons",package = "Hydra"),pattern = "*.zip")` for a list of all skeletons

Value

This function does not return anything. Instead, it installs all dependencies required to run the hydrated skeletons. (Only those skeletons that use a renv.lock file)

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