# Package 'OhdsiShinyAppBuilder'

December 10, 2024

```
Type Package
Title Viewing Observational Health Data Sciences and Informatics
                              Results via 'shiny' Modules
Version 1.0.0
Date 2024-12-09
Maintainer Jenna Reps < jreps@its.jnj.com>
Description Users can build a single 'shiny' app for exploring population characterization, population-
                              level causal effect estimation, and patient-
                              level prediction results generated via the R analyses packages in 'HADES' (see <a href="https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.com/https://example.co
                              //ohdsi.github.io/Hades/>). Learn more about 'OhdsiShinyAppBuilder' at <a href="https:">https://ohdsiShinyAppBuilder</a> at <a href="https://ohdsiShinyAppBuilder">https://ohdsiShinyAppBuilder</a> at <a href="https://ohdsis.html">https://ohdsiShinyAppBuilder</a> at <a href="https://ohdsis.html">https://ohdsis.html</a> at <a href="https://ohdsis.html">https://ohdsis.ht
                              //ohdsi.github.io/OhdsiShinyAppBuilder/>.
License Apache License 2.0
VignetteBuilder knitr
Depends R (>= 3.3.0)
Imports checkmate, DatabaseConnector, devtools, dplyr, ParallelLogger
                              (>= 2.0.0), ResultModelManager (>= 0.4.0), rlang, shiny,
                              shinydashboard, utils
Suggests Eunomia, jsonlite, knitr, rmarkdown, testthat, markdown,
                              remotes
RoxygenNote 7.3.1
Encoding UTF-8
NeedsCompilation no
Author Jenna Reps [aut, cre],
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Repository CRAN
```

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# Description

Create an R list with the config specification for one or more modules

# Usage

```
addModuleConfig(config, moduleConfig)
```

# Arguments

config The current config to append the extra module to moduleConfig A module config to be added

# **Details**

User specifies the settings to create a config for a module

# Value

An R list with the module config settings

createDefaultAboutConfig

createDefaultAboutConfig

# **Description**

Create an R list with the about config specification

# Usage

createDefaultAboutConfig()

#### **Details**

User specifies the settings to create a default config for an about module

#### Value

An R list with the module config settings

 $create {\tt DefaultCharacterizationConfig} \\ create {\tt DefaultCharacterizationConfig}$ 

# Description

Create an R list with the characterization config specification

# Usage

createDefaultCharacterizationConfig()

#### **Details**

User specifies the settings to create a default config for a characterization module

#### Value

 $create {\tt DefaultCohortDiagnosticsConfig} \\ create {\tt DefaultCohortDiagnosticsConfig}$ 

# Description

Create an R list with the characterization config specification

# Usage

createDefaultCohortDiagnosticsConfig()

# **Details**

User specifies the settings to create a default config for a characterization module

#### Value

An R list with the module config settings

 $create {\tt DefaultCohortGeneratorConfig} \\ create {\tt DefaultCohortGeneratorConfig}$ 

# Description

Create an R list with the cohort generator config specification

# Usage

createDefaultCohortGeneratorConfig()

#### **Details**

User specifies the settings to create a default config for a cohort generator module

#### Value

 $create {\tt DefaultCohortMethodConfig} \\ create {\tt DefaultCohortMethodConfig}$ 

# **Description**

Create an R list with the cohort method config specification (depreciated)

# Usage

createDefaultCohortMethodConfig()

# **Details**

User specifies the settings to create a default config for a cohort method module

#### Value

An R list with the module config settings

 $create {\tt DefaultDatas} our ces {\tt Config} \\ create {\tt DefaultDatas} our ces {\tt Config}$ 

# Description

Create an R list with the datasources config specification

# Usage

createDefaultDatasourcesConfig()

#### **Details**

User specifies the settings to create a default config for a datasources module

#### Value

 $create {\tt DefaultEstimationConfig}\\ create {\tt DefaultEstimationConfig}$ 

# **Description**

Create an R list with the estimation config specification

# Usage

createDefaultEstimationConfig()

# **Details**

User specifies the settings to create a default config for an estimation module

#### Value

An R list with the module config settings

 $create {\tt DefaultEvidenceSynthesisConfig} \\ {\it createDefaultEvidenceSynthesisConfig}$ 

# Description

Create an R list with the Evidence Synthesis config specification (depreciated)

# Usage

createDefaultEvidenceSynthesisConfig()

#### **Details**

User specifies the settings to create a default config for a Evidence Synthesis module

#### Value

createDefaultHomeConfig

createDefaultHomeConfig

# Description

Create an R list with the about config specification

# Usage

createDefaultHomeConfig()

# **Details**

User specifies the settings to create a default config for an about module

#### Value

An R list with the module config settings

 $create {\tt DefaultPhevaluatorConfig} \\ create {\tt DefaultPhevaluatorConfig}$ 

# Description

Create an R list with the phevaluator config specification

# Usage

createDefaultPhevaluatorConfig()

#### **Details**

User specifies the settings to create a default config for a phevaluator module

#### Value

 $create {\tt DefaultPredictionConfig}\\ create {\tt DefaultPredictionConfig}$ 

# Description

Create an R list with the prediction config specification

# Usage

createDefaultPredictionConfig()

# **Details**

User specifies the settings to create a default config for a prediction module

#### Value

An R list with the module config settings

 $create Default Report Config\\ create Default Report Config$ 

# Description

Create an R list with the report config specification

# Usage

createDefaultReportConfig()

#### **Details**

User specifies the settings to create a default config for a report module

#### Value

 $create Default Result Database Settings \\ create Default Result Database Settings$ 

## **Description**

Create an R list with the default table prefixes and tables

# Usage

```
createDefaultResultDatabaseSettings(
  schema = "main",
  vocabularyDatabaseSchema = schema,
  cgTablePrefix = "cg_",
  cgTable = "cohort_definition",
  databaseTable = "DATABASE_META_DATA",
  databaseTablePrefix = "",
  cdTablePrefix = "cd_",
  cTablePrefix = "c_",
  incidenceTablePrefix = "ci_",
  plpTablePrefix = "plp_",
  cmTablePrefix = "cm_",
  sccsTablePrefix = "sccs_",
  esTablePrefix = "es_",
  pvTablePrefix = "pv_"
)
```

# Arguments

schema The schema containing the OHDSI study results vocabularyDatabaseSchema The schema containing the vocabulary database cgTablePrefix The table prefix for cohort generator tables cgTable The table with the cohort definitions in cohort generator databaseTable The table with the database details databaseTablePrefix The prefix for the databaseTable cdTablePrefix The table prefix for the cohort diagnostic results cTablePrefix The table prefix for the characterization results incidenceTablePrefix The table prefix for the incidence results plpTablePrefix The table prefix for the prediction results cmTablePrefix The table prefix for the cohort method results

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sccsTablePrefix

The table prefix for the self controlled case series results

esTablePrefix The table prefix for the evidence synthesis method results

pvTablePrefix The table prefix for the phevaluator results

# **Details**

User specifies the schema name and can override default table prefixes and table names

#### Value

An R list with the module config settings

createDefaultSccsConfig

createDefaultSccsConfig

# Description

Create an R list with the SCCS config specification (depreciated)

# Usage

createDefaultSccsConfig()

# **Details**

User specifies the settings to create a default config for a SCCS module

# Value

An R list with the module config settings

createModuleConfig

createModuleConfig

# **Description**

Create an R list with the config specification

createModuleConfig 11

#### Usage

```
createModuleConfig(
  moduleId = "about",
  tabName = "About",
  shinyModulePackage = "OhdsiShinyModules",
  shinyModulePackageVersion = "3.0.0",
  moduleUiFunction = "aboutViewer",
  moduleServerFunction = "aboutServer",
  moduleInfoBoxFile = "aboutHelperFile()",
  moduleIcon = "info",
  installSource = "CRAN",
  gitHubRepo = NULL
)
```

# **Arguments**

moduleId The shiny id for the tab containing the module UI

tabName The name of the tab in the shiny app (this will be the side menu button text)

shinyModulePackage

The R package to find the server and UI functions

shinyModulePackageVersion

The minimum version of the shinyModulePackage

moduleUiFunction

The name of the UI function in the R package shinyModulePackage

moduleServerFunction

The name of the server function in the R package shinyModulePackage

moduleInfoBoxFile

The function in the R package shinyModulePackage that contains info text

moduleIcon The icon to use for the side menu button

installSource Either CRAN or github specifying where to install shinyModulePackage from

gitHubRepo If installSource is github then this is the github repo containing the package e.g.,

'ohdsi'

## **Details**

User specifies the settings to create a config for a module

#### Value

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createShinyApp createShinyApp

# **Description**

Create a shiny app for a shiny server

### Usage

```
createShinyApp(
  config,
  connection,
  resultDatabaseSettings = createDefaultResultDatabaseSettings(),
  connectionDetails = NULL,
  usePooledConnection = TRUE,
  studyDescription = NULL,
  title = "OHDSI Analysis Viewer",
  protocolLink = "http://ohdsi.org",
  themePackage = "OhdsiShinyAppBuilder",
  reportSummaryDetails = NULL
)
```

# **Arguments**

config The json with the app config connection A connection to the results resultDatabaseSettings

A list with the result schema and table prefixes

connectionDetails

A DatabaseConnector::connectionDetails connection to the results database

usePooledConnection

Use a pooled database connection or not - set to true for multi-user environments (default)

studyDescription

A human-readable character string describing the study/analysis

title The title for the app. Defaults to: OHDSI Analysis Viewer

protocolLink A link to a site containing the study protocol themePackage A package containing custom theme elements

reportSummaryDetails

NULL or a data.frame with the columns reportName and reportLocation

#### **Details**

User specifies the json config and connection

initializeModuleConfig 13

# Value

Shiny app instance

 $initialize {\tt ModuleConfig}$ 

*initializeModuleConfig* 

# Description

Creates an empty config

# Usage

initializeModuleConfig()

# **Details**

An empty config that can be used to add shiny module configs to

# Value

An empty list

loadConfig

loadConfig

# Description

Load the config specification

# Usage

loadConfig(configLocation)

# Arguments

configLocation The location of the config json file

# **Details**

User specifies the config file and this function returns the R list with the config

# Value

14 saveConfig

OhdsiShinyAppBuilder OhdsiShinyAppBuilder

# Description

A package for creating viewers for the OHDSI shiny apps

# Author(s)

Maintainer: Jenna Reps < jreps@its.jnj.com>

Authors:

- Nathan Hall
- Josh Ide
- Jamie Gibert

saveConfig

save Config

# Description

Save the R list with the config specification as a json

# Usage

```
saveConfig(configList, configLocation)
```

# **Arguments**

```
\begin{array}{ll} \text{configList} & \text{An R list with the config settings} \\ \text{configLocation} & \text{The location to save the config json file} \\ \end{array}
```

# **Details**

User saves the R list with the config as a json file

#### Value

viewShiny 15

viewShiny viewShiny

#### **Description**

Open the shiny app

#### Usage

```
viewShiny(
  config,
  connection,
  resultDatabaseSettings = createDefaultResultDatabaseSettings(),
  connectionDetails = NULL,
  usePooledConnection = TRUE,
  studyDescription = NULL,
  title = "OHDSI Analysis Viewer",
  protocolLink = "http://ohdsi.org",
  themePackage = "OhdsiShinyAppBuilder"
)
```

#### **Arguments**

config The json with the app config connection A connection to the results resultDatabaseSettings

A list with the result schema and table prefixes

connectionDetails

A DatabaseConnector::connectionDetails connection to the results database

usePooledConnection

Use a pooled database connection or not - set to true for multi-user environments (default)

studyDescription

A human-readable character string describing the study/analysis

title The title for the app. Defaults to: OHDSI Analysis Viewer

protocolLink A link to a site containing the study protocol themePackage A package containing custom theme elements

#### **Details**

User specifies the json config and connection

#### Value

The shiny app will open

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