

Package: OhdsiShinyAppBuilder (via r-universe)

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Type Package

Title Viewing Observational Health Data Sciences and Informatics Results via 'shiny' Modules

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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 <<https://ohdsi.github.io/Hades/>>). Learn more about 'OhdsiShinyAppBuilder' at <<https://ohdsi.github.io/OhdsiShinyAppBuilder/>>.

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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

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Config/pak/sysreqs libfontconfig1-dev libfreetype6-dev libfribidi-dev
 git make libharfbuzz-dev default-jdk libgit2-dev libicu-dev
 libjpeg-dev libpng-dev libtiff-dev libxml2-dev libssl-dev
 libx11-dev zlib1g-dev

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| | |
|-----------------|------------------------|
| addModuleConfig | <i>addModuleConfig</i> |
|-----------------|------------------------|

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

`createDefaultCharacterizationConfig`
createDefaultCharacterizationConfig

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

An R list with the module config settings

`createDefaultCohortDiagnosticsConfig`
createDefaultCohortDiagnosticsConfig

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

`createDefaultCohortGeneratorConfig`
createDefaultCohortGeneratorConfig

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

An R list with the module config settings

`createDefaultCohortMethodConfig`
createDefaultCohortMethodConfig

Description

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

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

`createDefaultDatasourcesConfig`
createDefaultDatasourcesConfig

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

An R list with the module config settings

```
createDefaultEstimationConfig  
  createDefaultEstimationConfig
```

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

```
createDefaultEvidenceSynthesisConfig  
  createDefaultEvidenceSynthesisConfig
```

Description

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

Usage

```
createDefaultEvidenceSynthesisConfig()
```

Details

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

Value

An R list with the module config settings

`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

`createDefaultPhevaluatorConfig`
createDefaultPhevaluatorConfig

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

An R list with the module config settings

`createDefaultPredictionConfig`
createDefaultPredictionConfig

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

`createDefaultReportConfig`
createDefaultReportConfig

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

An R list with the module config settings

```
createDefaultResultDatabaseSettings
      createDefaultResultDatabaseSettings
```

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 |

| | |
|------------------------------|--------------------------------------------------------------|
| <code>sccsTablePrefix</code> | The table prefix for the self controlled case series results |
| <code>esTablePrefix</code> | The table prefix for the evidence synthesis method results |
| <code>pvTablePrefix</code> | 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 (deprecated)

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

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

An R list with the module config settings

| | |
|-----------------------------|-----------------------|
| <code>createShinyApp</code> | <i>createShinyApp</i> |
|-----------------------------|-----------------------|

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

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------|
| <code>config</code> | The json with the app config |
| <code>connection</code> | A connection to the results |
| <code>resultDatabaseSettings</code> | A list with the result schema and table prefixes |
| <code>connectionDetails</code> | A DatabaseConnector::connectionDetails connection to the results database |
| <code>usePooledConnection</code> | Use a pooled database connection or not - set to true for multi-user environments (default) |
| <code>studyDescription</code> | A human-readable character string describing the study/analysis |
| <code>title</code> | The title for the app. Defaults to: OHDSI Analysis Viewer |
| <code>protocolLink</code> | A link to a site containing the study protocol |
| <code>themePackage</code> | A package containing custom theme elements |
| <code>reportSummaryDetails</code> | NULL or a data.frame with the columns reportName and reportLocation |

Details

User specifies the json config and connection

Value

Shiny app instance

`initializeModuleConfig`
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

An R list with the config settings

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 *saveConfig*

Description

Save the R list with the config specification as a json

Usage

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

Arguments

`configList` An R list with the config settings
`configLocation` The location to save the config json file

Details

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

Value

An R list with the config settings

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

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------|
| <code>config</code> | The json with the app config |
| <code>connection</code> | A connection to the results |
| <code>resultDatabaseSettings</code> | A list with the result schema and table prefixes |
| <code>connectionDetails</code> | A DatabaseConnector::connectionDetails connection to the results database |
| <code>usePooledConnection</code> | Use a pooled database connection or not - set to true for multi-user environments (default) |
| <code>studyDescription</code> | A human-readable character string describing the study/analysis |
| <code>title</code> | The title for the app. Defaults to: OHDSI Analysis Viewer |
| <code>protocolLink</code> | A link to a site containing the study protocol |
| <code>themePackage</code> | A package containing custom theme elements |

Details

User specifies the json config and connection

Value

The shiny app will open

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