Package: riskassessment (via r-universe)

September 4, 2024

Title A web app designed to interface with the `riskmetric` package

Version 3.1.1

Description A shiny application that allows users to define a list of
R packages to assess metrics engineered by the `riskmetric`
package. In general, those metrics evaluate package development
best practices, code documentation, community engagement, and
sustainability that culminate in a quantitative risk score. The
app allows users to select and review one package at a time to
consume interactive visuals, download reports for sharing,
submit comments for group collaboration, and even tweak metric
weights used to calculate the packages' risk scores. When
deployed in the context of an organization, the app serves as a
platform for package validation, offering an authentication
wall where roles are assigned to various users and 'final
decisions' can be made at the package level manually or through
pre-defined automation rules.

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URL https://github.com/pharmaR/riskassessment,
https://pharmar.github.io/riskassessment/

BugReports https://github.com/pharmaR/riskassessment/issues

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.1

Imports archive, bslib (>= 0.3.0), config (>= 0.3.1), cranlogs, DBI,
desc, dplyr, DT, flextable, formattable, glue, golem (>=
0.3.2), loggit, lubridate, plotly, purrr, rintrojs, riskmetric
(>= 0.2.2), rlang, rmarkdown, RSQLite, rvest, shiny (>= 1.7.1),
shinyjs, shinymanager, shinyTree, shinyWidgets, stringr,
shinyAce, sortable

Suggests chromote (>= 0.1.1.9001), fontawesome, kableExtra, knitr,
pkgload, png, rjson, rstudioapi, shinytest2, spelling, testthat
(>= 3.0.0), tinytex, withr

Config/testthat/edition 3

Language en-US

Depends R (>= 2.10)

VignetteBuilder knitr

Remotes pharmaR/riskmetric

Repository https://pharmaverse.r-universe.dev

RemoteUrl https://github.com/pharmaR/riskassessment

RemoteRef HEAD

RemoteSha b91c6e36340fc9f552c79024945079c3da03d107

Contents

Index   **6**

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build_comm_plotly	*Build a plotly of community usage metrics*

Description

Responsible for building an interactive {plotly} graphic containing the trend line for number of CRAN pkg downloads by month.

Usage

```
build_comm_plotly(data = NULL, pkg_name = NULL)
```

Arguments

data	a data.frame containing monthly download data, built using generate_comm_data(). This argument is optional, but if NULL, a pkg_name must be provided.
pkg_name	a string of a package name. This parameter is optional. If pkg_name is provided, the data argument should be NULL.

Value

a plotly object

an interactive plotly object

Example

```
build_comm_plotly(pkg_name = "ggplot2")
```

Example Output

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generate_comm_data *Generate Community Usage Data*

Description

Extracts community usage metrics for a given package.

Usage

```
generate_comm_data(pkg_name)
```

Arguments

pkg_name   A string containing the name of a package.

Value

A tibble of community usage metrics

a data.frame which includes downloads per month for the given pkg

Examples

```
if( interactive()) {
ggplot_comm_df <- generate_comm_data("ggplot2")
head(ggplot_comm_df)
}
```

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initialize_raa *Initialize* riskassessment *Application Settings*

Description

This sets up the environment when running the riskassessment Application. It sets the log file, initializes the package database if missing, and initializes the credentials database if missing.

Usage

```
initialize_raa(assess_db, cred_db, configuration)
```

Arguments

`assess_db`	A string denoting the name of the assessment database.
`cred_db`	A string denoting the name of the credentials database.
`configuration`	a list dictating the configuration of the databases

Value

There is no return value. The function is run for its side effects.

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run_app   *Run the Shiny Application*

Description

Run the Shiny Application

Usage

```
run_app(
  onStart = initialize_raa,
  options = list(),
  enableBookmarking = NULL,
  uiPattern = "/",
  app_ver = NULL,
  login_note = NULL,
  ...
)
```

Arguments

`onStart`	A function that will be called before the app is actually run. This is only needed for shinyAppObj, since in the shinyAppDir case, a `global.R` file can be used for this purpose.
`options`	Named options that should be passed to the `runApp` call (these can be any of the following: "port", "launch.browser", "host", "quiet", "display.mode" and "test.mode"). You can also specify `width` and `height` parameters which provide a hint to the embedding environment about the ideal height/width for the app.
`enableBookmarking`	
	Can be one of `"url"`, `"server"`, or `"disable"`. The default value, NULL, will respect the setting from any previous calls to [enableBookmarking()](). See [enableBookmarking()]() for more information on bookmarking your app.
`uiPattern`	A regular expression that will be applied to each GET request to determine whether the `ui` should be used to handle the request. Note that the entire request path must match the regular expression in order for the match to be considered successful.

app_ver	a "global" variable that is passed to several modules & reports which details the installed package version when not specified. It can be overwritten to include a specific version name as a text string.
login_note	a text string to display underneath the auth screen's login button, provided to guide users
...	arguments to pass to golem_opts. See ?golem::get_golem_options for more details.

Value

a shiny app object

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upload_pkg_lst	*Upload a Package List*

Description

Uploads a list of packages to the database. Designed to be used to set up the assessment database before deployment of the application.

Usage

```
upload_pkg_lst(
  pkg_lst,
  assess_db,
  repos,
  repo_pkgs,
  user_name = "system",
  updateProgress = NULL
)
```

Arguments

pkg_lst	character vector of packages to upload
assess_db	character name (and file path) of the database
repos	character vector, the base URL(s) of the repositories to use
repo_pkgs	for internal use only, allows the function available.packages() to be run only once
user_name	character name of user
updateProgress	for internal use only, provides a function to update progress meter in the application

Value

A data frame object containing a summary of the upload process

Index