Package 'rccShiny'

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Type Package

Version 1.0.0

Title Shiny apps for RCC

Description Creates shiny apps used as a complement to the annual reports from the cancer quality registries in Sweden.

Depends R (>= 3.3.3)

Imports acepack (>= 1.4.1), backports (>= 1.0.5), base64enc (>= 0.1.3), bitops (>= 1.0.6), caTools (>= 1.17.1), checkmate (>= 1.8.2), colorspace (>= 1.3.2), data.table (>= 1.10.4), dichromat (>= 2.0.0), digest, DT (>= 0.2), evaluate (>= 0.10), Formula (>= 1.2.1), gdata (>= 2.17.0), ggplot2 (>= 2.2.1), gplots (>= 3.0.1), gridExtra (>= 2.2.1), graphics, grDevices, gtable (>= 0.2.0), gtools (>= 3.5.0), highr (>= 0.6), Hmisc (>= 4.0.3), htmlTable (>= 1.9), htmltools (>= 0.3.6), htmlwidgets (>= 0.8), httpuv (>= 1.3.3), jsonlite (>= 0.9.16), knitr (>= 1.15.1), labeling (>= 0.3), latticeExtra (>= 0.6.28), lazyeval (>= 0.2.0), magrittr (>= 1.5), markdown (>= 0.8), methods, mime (>= 0.3), munsell (>= 0.4.3), plyr (>= 1.8.4), R6 (>= 2.0), RColorBrewer (>= 1.1.2), Rcpp (>= 0.12.0), scales (>= 0.4.1), shiny (>= 1.0.3), sourcetools (>= 0.1.6), sp (>= 1.2.4), stats, stringi (>= 1.1.5), stringr (>= 1.2.0), tibble (>= 1.3.0), utils, xtable (>= 1.8.2), yaml (>= 2.1.14)

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LazyData TRUE

License GPL (>= 3)

RoxygenNote 6.0.1

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R topics documented:

rccShiny *Shiny apps for RCC*

Description

returns shiny apps that can be used as a complement to the annual reports from the cancer quality registries in Sweden.

Usage

```
rccShiny(data = NULL, outcome = "outcome", outcomeTitle = outcome,
  folder = "ind", folderLinkText = outcomeTitle, path = getwd(),
  textBeforeSubtitle = NULL, textAfterSubtitle = NULL, comment = "",
  description = c("(beskrivning saknas)", "(description missing)"),
  geoUnitsHospital = "sjukhus", geoUnitsCounty = "landsting",
  geoUnitsRegion = "region", geoUnitsPatient = FALSE,
  regionSelection = TRUE, regionLabel = c("Begränsa till region",
  "Limit to region"), period = "period", periodLabel = c("Diagnosår",
  "Year of diagnosis"), varOther = NULL, targetValues = NULL,
  funnelplot = FALSE, sortDescending = NULL, hideLessThan = 5,
  language = c("sv"), npcrGroupPrivateOthers = TRUE)
```

Arguments

data	data frame containing the variables used.
outcome	vector with names(s) of variable(s) in data containing the variable(s) to be presented in the app, for example a quality indicator. Variable(s) must be of type logical, factor or numeric. Default is "outcome".
outcomeTitle	label(s) of the outcome(s) shown in the app. Must be the same length as argument outcome. Default is argument outcome.
folder	name of folder where the results are placed. Default is "ind".
folderLinkText	short name displayed in ready-to-use html link returned by the function. Default is argument outcomeTitle.
path	search path to folder returned by the function. Default is working directory.
textBeforeSubtitle	optional text placed before the subtitles in the tabs.
textAfterSubtitle	optional text placed after the subtitles in the tabs.
comment	optional comment printed under the sidebar panel.
description	description shown in the tab Beskrivning/Description.
geoUnitsHospital	optional name of variable in data containing hospital names. Variable must be of type character. At least one geoUnit must be given. To be implemented: Hospital codes.
geoUnitsCounty	optional name of variable in data containing county codes. Variable must be of type numeric. Can be either county of residence for the patient or the county the hospital belongs to. See details for valid values. At least one geoUnit must be given. To be implemented: Codes for county of hospital are fetched automatically from hospital codes.

`geoUnitsRegion` optional name of variable in data containing region codes (1=Stockholm, 2=Uppsala-Örebro, 3=Sydöstra, 4=Södra, 5=Västra, 6=Norra). Variable must be of type numeric. Can be either region of residence for the patient or the region the hospital belongs to. At least one geoUnit must be given. To be implemented: Codes for region of hospital are fetched automatically from hospital codes.

`geoUnitsPatient` if geoUnitsCounty/geoUnitsRegion is county/region of residence for the patient (LKF). If FALSE and a hospital is chosen by the user in the sidebar panel the output is highlighted for the respective county/region that the hospital belongs to. Default is FALSE.

`regionSelection` adds a widget to the sidebar panel with the option to show only one region at a time. Default is TRUE.

`regionLabel` if regionSelection = TRUE label of widget shown in the sidebar panel. Default is c("Begränsa till region", "Limit to region").

`period` name of variable in data containing time periods, for example year of diagnosis. Variable must be of type numeric. Default is "period".

`periodLabel` label for the period widget in the sidebar panal. Default is c("Diagnosår", "Year of diagnosis").

`varOther` optional list of variable(s), other than period and geoUnits, to be shown in the sidebar panel. Arguments to the list are: var (name of variable in data), label (label shown over widget in sidebar panel), choices (which values of var should be shown, min, max for continuous variables).

`targetValues` optional vector of 1-2 target levels to be plotted in the tab Jämförelse/Comparison. Only applicable for dichotomous variables.

`funnelplot` adds a widget to the sidebar panel with the option to show a funnel plot in the tab Jämförelse/Comparison. Only applicaple for dichotomous variables. Default is FALSE.

`sortDescending` should the bars in tab Jämförelse/Comparison be plotted in descending order. Default is TRUE.

`hideLessThan` value under which groups (cells) are supressed. Default is 5 and all values < 5 are set to 5.

`language` vector giving the language for the app. Possible values are "sv" and "en". Default is "sv". See details.

`npcrGroupPrivateOthers` should private hospitals be grouped when displaying data for the entire country. Applicable for NPCR. Default is TRUE.

Details

Valid values for geoUnitsCounty are:

geoUnitsPatient	!geoUnitsPatient	Text shown
1	10,11	Stockholm
3	12	Uppsala
4	13	Södermanland
5	21	Östergötland
6	22	Jönköping
7	23	Kronoberg
8	24,25	Kalmar

9	26	Gotland
10	27	Blekinge
12	28,30,41	Skåne
13	42	Halland
14	50,51,52,53	Västra Götaland
17	54	Värmland
18	55	Örebro
19	56	Västmanland
20	57	Dalarna
21	61	Gävleborg
22	62	Västernorrland
23	63	Jämtland
24	64	Västerbotten
25	65	Norrbotten
-	91,92,93,94,95,96	Övriga/privata - region

If language = c("sv", "en") the following applies to arguments: textBeforeSubtitle, textAfterSubtitle, comment, description, regionLabel, label in list varOther: if there are two values the first is used in the Swedish version and the second in the English version. If there is only one value this is recycled in both versions. The following applies to argument outcomeTitle: the titles should be given in a list, the first listargument is used in the Swedish version and the second in the English version. The Swedish title(s) will be recycled if English is missing. The following applies to arguments outcome, geoUnitsHospital, geoUnitsCounty, geoUnitsRegion, period, var in list varOther: in the English version the variable name with the suffix _en (for example "outcome_en") will be used if this exists and otherwise the Swedish variable name will be recycled.

Value

A folder path/apps/sv\en/folder containing: global.R, server.R, ui.R, data/data.RData, docs/description.html.

Author(s)

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Examples

```
rccShiny(
  data = rccShinyData,
  folder = "Indikator1",
  outcome = paste0("outcome",1:3),
  outcomeTitle = c("Dikotom", "Kontinuerlig", "Kategorisk"),
  comment = "Skovde och Lidkoping tillhor Skaraborg",
  description = "Att tanka pa vid tolkning ....",
  varOther = list(
    list(
      var = "age",
      label = "Alder vid diagnos"
    ),
    list(
      var = "stage",
      label = "Stadium",
      choices = c("I", "II")
    )
  ),
```

```
  funnelplot = TRUE
)
## Not run:
library(shiny)
runApp("./apps/sv/Indikator1")

## End(Not run)

# For Swedish/English version
rccShinyData$outcome1_en <- rccShinyData$outcome1
rccShiny(
  data = rccShinyData,
  folder = "Indikator2",
  outcome = "outcome1",
  outcomeTitle = list("Kontaktsjukskoterska", "Contact nurse"),
  textBeforeSubtitle = c("Nagot pa svenska","Something in English"),
  description = c("Superbra att ha!","Supergood to have!"),
  varOther = list(
    list(
      var = "age",
     label = c("Alder vid diagnos","Age at diagnosis"),
      choices = c(0,120)
    )
  ),
  targetValues = c(95,99),
  language = c("sv", "en")
)
```

`rccShinyData` *Testdata for RCC shiny apps*

Description

Data set used in the examples given in the function rccShiny.

Usage

```
rccShinyData
```

Format

A data frame with 20000 rows and 9 variables:

sjukhus hospital names (character).

landsting county codes for hospital (numeric).

region region codes for hospital (numeric).

period year of diagnosis.

age patients age at diagnosis.

outcome1 dichotomous outcome (logical).

outcome2 continuous outcome (numeric).

outcome3 categorical outcome with 5 levels (factor).

stage patients stage at diagnosis.

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