Package 'rccShiny'

May 4, 2017

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 DT (>= 0.2),
gplots (>= 3.0.1),
Hmisc (>= 4.0.2),
plyr (>= 1.8.4),
shiny (>= 1.0.2),
sp (>= 1.2.4)

Encoding UTF-8

LazyData TRUE

License GPL (>= 3)

RoxygenNote 6.0.1

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Repository bitbucket.org/cancercentrum/rccshiny

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R topics documented:

| rccShiny | *Shiny apps for RCC* |

Description

returns shiny apps 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(),
  titleTextBeforeSubtitle = NULL, titleTextAfterSubtitle = NULL,
  comment = "", description = c("(beskrivning saknas)",
  "(description missing)"), geoUnitsHospital = "sjukhus",
  geoUnitsCounty = "landsting", geoUnitsRegion = "region",
  geoUnitsFromLKF = FALSE, regionSelection = TRUE,
  regionLabel = c("Begränsa till region", "Limit to region"),
  period = "period", periodLabel = c("Diagnosår", "Year of diagnosis"),
  userInputList = NULL, targetValues = NULL, funnelplot = FALSE,
  targetValuesSortDescending = NULL, hideLessThan = 5, language = c("sv"),
  npcrGroupPrivateOthers = TRUE)
```

Arguments

data	data frame containing the variables used in the app.
outcome	vector with the name(s) of the variable(s) of interest, for example a "kvalitetsindikator". Default is "outcome".
outcomeTitle	label(s) of the outcome(s). Must be the same lenght as argument outcome. Default is argument outcome (name(s) of the outcome(s) in the dataset).
folder	name of folder where the results are placed.
folderLinkText	short name used in html lank??? glunkiglunk. Fredrik: HJÄLP SÖKES!
path	searchpath to folder. Default is working directory.
titleTextBeforeSubtitle	
	optional text placed before the subtitles in the tabs.
titleTextAfterSubtitle	
	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 character vector with hospital names. At least one geoUnit needs to be given. To be implemented: Hospital codes.
geoUnitsCounty	optional numeric vector with county codes. 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 needs to be given. To be implemented: Codes for county of hospital are fetched automatically from hospital codes.

geoUnitsRegion   optional numeric vector with region codes (1=Stockholm, 2=Uppsala-Örebro, 3=Sydöstra, 4=Södra, 5=Västra, 6=Norra). At least one geoUnit needs to be given. To be implemented: Codes for region of hospital are fetched automatically from hospital codes.

geoUnitsFromLKF
   if geoUnitsCounty is county of residence for the patient (LKF). If FALSE and a hospital is choosen 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   used if regionSelection = TRUE. Label of widget shown in the sidebar panel. Default is c("Begränsa till region", "Limit to region").

period   numeric vector with time periods, for example year of diagnosis. Default is "period".

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

userInputList   list with variables (other than period and geoUnits) to be shown in sidebar panel. Arguments to the list are: var (variable name in dataset), label (label shown over widget in sidebar panel), choices (which values of var should be shown, min, max for continous variables).

targetValues   optional vector of 1-2 targetvalues ("målnivåer") to be plotted in the tab Jämförelse/Comparison. Only applicaple 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. Currently not implemented and always set to TRUE.

targetValuesSortDescending
   should the bars in tab Jämförelse/Comparison be plotted in descending order. Deafault is TRUE.

hideLessThan   optional 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
   Applicable for NPCR only. FREDRIK: vad ska stå? Ska default vara TRUE?

Details

Valid values for geoUnitsCounty are:

geoUnitsFromLKF	!geoUnitsFromLKF	Text
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: outcomeTitle, titleTextBeforeSubtitle, titleTextAfterSubtitle, comment, description, regionLabel, label in list userInputList: if there are two values the first is used in the swedish version and the second in the english version. These must be given in order sv, en. If there is only one value this is recycled in both versions. The following applies to arguments outcome, geoUnitsHospital, geoUnitsCounty, geoUnitsRegion, period, var in list userInputList: in the english version rccShiny will use the variable name with the suffix _en (for example "outcome_en") if this exists and otherwise recycle the swedish variable name.

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",
  path = "C:/Users/5521/test_rccShiny",
  outcome = paste0("outcome",1:3),
  outcomeTitle = c("Dikotom", "Kontinuerlig", "Kategorisk"),
  comment = "Skovde och Lidkoping tillhor Skaraborg",
  description = "Att tanka pa vid tolkning ....",
  userInputList = list(
    list(
      var = "age",
      label = "Alder vid diagnos"
    ),
    list(
      var = "stage",
      label = "Stadium",
      choices = c("I", "II")
    )
  ),
  funnelplot = TRUE
)
## Not run:
library(shiny)
```

```
runApp("C:/Users/552l/test_rccShiny/apps/sv/Indikator1")

## End(Not run)

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

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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 a character vector contining hospitals names.

landsting a numeric vector containg codes for the 'landsting' for the respective hospitals.

region a numeric vector containg codes (1-6) for the region for the respective hospitals.

period year of diagnosis (2012-2016).

age patients age at diagnosis.

outcome1 dichotomous outcome (logical: TRUE/FALSE).

outcome2 continuous outcome (numeric).

outcome3 categorical outcome with 5 levels (factor).

stage patients stage at diagnosis.

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