Package 'spatialCatalogueViewer'

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Type Package

Title A 'Shiny' Tool to Create Interactive Catalogues for Geospatial
Data

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Description Seamlessly create interactive online catalogues for geospa-
tial data. Items can be mapped as points or areas and retrieved using either a map or a dy-
namic table with search form and optional column filters.

License GPL-3

Repository CRAN

Encoding UTF-8

Imports leaflet, leaflet.extras, shiny, shinythemes, DT,

Depends R (>= 4.1.0)

URL <https://github.com/sebastien-plutniak/spatialCatalogueViewer>

BugReports <https://github.com/sebastien-plutniak/spatialCatalogueViewer/issues>

NeedsCompilation no

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Description

Launch the spatialCatalogueViewer application.

Usage

```
spatialCatalogueViewer(data = NULL,
  text.title = NULL, text.left = NULL, text.top = NULL, text.bottom = NULL,
  map.provider = "Stadia.StamenTerrainBackground",
  map.set.lon = 0, map.set.lat = 0,
  map.legend.variable = NULL, map.legend.labels = NULL,
  map.legend.colors = NULL, map.height = 500,
  map.area.fill.color = "grey", map.area.fill.opacity = 0.5,
  map.show.areas = "never", map.min.zoom = NULL,
  table.hide.columns = NULL, table.filter = "none", table.pageLength = NULL,
  data.download.button = TRUE,
  tabs.contents = NULL,
  theme = "cosmo", css = NULL, js = NULL)
```

Arguments

data	dataframe. The data. See details for mandatory columns.
text.title	character. HTML text to use for the title.
text.left	character. HTML text to use in the columns left to the map.
text.top	character. HTML text to use above the map.
text.bottom	character. HTML text to use below the map.
map.provider	character. Name of the bap provider, see https://leaflet-extras.github.io/leaflet-providers/preview/ for possible values.
map.set.lon	integer. Initial longitude to center the map, a value in [-90, 90].
map.set.lat	integer. Initial latitude to center the map, a value in [-90, 90].
map.legend.variable	character. The name of the column to use for the legend. It also defines the legend title.
map.legend.labels	character. A vector with names for the legend's items. Must have the same length than 'map.legend.colors'.
map.legend.colors	character. A vector of color names for the legend's item. Must have the same length than 'map.legend.labels'. See colors() for a list of possible values.
map.height	integer. Height in px of the map.

`map.area.fill.color`

> character. A color name to color the areas. See colors() for a list of possible values.

`map.area.fill.opacity`

> numerical. Opacity of the areas, a value between 0 and 1.

`map.show.areas` character or logical. One of TRUE, FALSE, 'always', 'never'. If TRUE or FALSE, a checkbox is displayed under the map.

`map.min.zoom` integer. Minimal zoom for the map, between 1 and 12.

`table.hide.columns`

> chatacter. Name(s) of the column(s) to hide in the interactive table. Note that these columns can be searched using the 'Search' form anyways.

`table.filter` character. Whether and where to use column filters: 'none': no filters, 'bottom' / 'top': put column filters at the bottom or top of the table.

`table.pageLength`

> integer. Number of rows displayed on each page of the table.

`data.download.button`

> logical. Dispay or not a button to download the dataset.

`tabs.contents` character. A named list with the contents of the optional additional tabs. List elements' names are used as tab labels.

`theme` character. Name of the shinytheme to use.

`css` character. CSS code.

`js` character. Javascript code.

Details

This function launches the 'spatialCatalogueViewer' application.

The dataframe for `data` has mandatory and optional columns: Mandatory: resource.name: Name of the resource (HTML contents is possible). coordinates: Either 'lon' and 'lat' columns or 4 columns named 'bbox.lon1', 'bbox.lat1', 'bbox.lon2', 'bbox.lat2' (where lon1 and lat1 refers to the north-west corner of the area and lon2 and lat2 to the south-east corner).

Optional: * resource.popup: HTML contents for the map pop-up.

Value

Launch the 'spatialCatalogueViewer' Shiny application.

Author(s)

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See Also

DT leaflet leaflet.extra shiny shinytheme

Examples

```
if(interactive()){
df <- data.frame(lat = c(43.6033, 49.89441, 43.2974),
                 lon = c(1.4444,  2.29649, 5.3703),
                 resource.name = c("Toulouse", "Amiens", "Marseille"),
                 population = c(511684, 135429,  877215),
                 region = c("Occitanie", "Picardie", "Provence")
)
# launch the app:
spatialCatalogueViewer(data = df,
                map.set.lon = 2.37,  map.set.lat =  47.29, map.min.zoom = 5)
}
```

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