Package 'NestedMenu'

October 12, 2022

Type Package

Title A Nested Menu Widget for 'Shiny' Applications

Version 0.2.0

Description Provides a nested menu widget for usage in 'Shiny'
applications. This is useful for hierarchical choices (e.g. continent,
country, city).

License GPL-3

URL <https://github.com/stla/NestedMenu>

BugReports <https://github.com/stla/NestedMenu/issues>

Imports fontawesome, htmltools, htmlwidgets, jquerylib, shiny

Encoding UTF-8

RoxygenNote 7.2.1

NeedsCompilation no

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Repository CRAN

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R topics documented:

NestedMenu   *'Nested menu' widget*

Description

'Nested menu' HTML widget.

Usage

```
NestedMenu(
  label,
  items,
  trigger = "left",
  style = "primary",
  size = NULL,
  elementId = NULL
)
```

Arguments

label	the label of the root button
items	list of items for the nested menu; see the Shiny example
trigger	the way the menu is triggered: `"left"` to trigger on a left-click, `"right"` to trigger on a right-click, `"hover"` to trigger on hover
style	a Bootstrap style for the root button: `"primary"`, `"info"`, `"success"`, `"warning"` or `"danger"`
size	size of the root button: `NULL` (normal), `"lg"` (large), `"sm"` (small) or `"xs"` (extra-small)
elementId	a HTML id; this is usually useless

Value

A `htmlwidget` object.

NestedMenu-shiny   *Shiny bindings for 'NestedMenu'*

Description

Output and render functions for using 'NestedMenu' within Shiny applications and interactive Rmd documents.

Usage

```
NestedMenuOutput(outputId, width = "100%", height = "auto")

renderNestedMenu(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

outputId	output variable to read from
width, height	dimensions; must be valid CSS measurements (like "100%", "400px", "auto")
expr	an expression that generates a nested menu (with NestedMenu)
env	the environment in which to evaluate expr.
quoted	Boolean, whether expr is a quoted expression

Value

NestedMenuOutput returns an output element that can be included in a Shiny UI definition, and renderNestedMenu returns a shiny.render.function object that can be included in a Shiny server definition.

Shiny value

If the outputId is called "ID" for example, then the value of the clicked leaf item is available in the Shiny server in the reactive variable input[["ID"]].

Examples

```
library(NestedMenu)
library(shiny)

cities <- list(
  europe = list(
    name = "Europe",
    items = list(
      france = list(
        name = "France",
        icon = "fa-cheese",
        items = list(
          paris = list(name = "Paris"),
          lyon = list(name = "Lyon")
        )
      ),
      italy = list(
        name = "Italy",
        icon = "fa-pizza-slice",
        items = list(
          roma = list(name = "Roma"),
          milano = list(name = "Milano")
        )
      )
    )
```

```
      ),
      america = list(
        name = "America",
        items = list(
          namerica = list(
            name = "North America",
            items = list(
              usa = list(
                name = "USA",
      icon = "fa-flag-usa",
                items = list(
                  chicago = list(name = "Chicago"),
                  newyork = list(name = "New York")
                )
              ),
              canada = list(
                name = "Canada",
                icon = "fa-canadian-maple-leaf",
                items = list(
                  ottawa = list(name = "Ottawa"),
                  toronto = list(name = "Toronto")
                )
              )
            )
          ),
          samerica = list(
            name = "South America",
            items = list(
              brazil = list(
                name = "Brazil",
                icon = "fa-lemon",
                items = list(
                  brasilia = list(name = "Brasilia"),
                  saopolo = list(name = "Sao Polo")
                )
              ),
              mexico = list(
                name = "Mexico",
                icon = "fa-hat-cowboy",
                items = list(
                  mexicocity = list(name = "Mexico City"),
                  tijuana = list(name = "Tijuana")
                )
              )
            )
          )
        )
      )
    )
  )

  ui <- fluidPage(
    br(),
    NestedMenuOutput("menu", height = "auto"),
```

```
  br(),
  verbatimTextOutput("clicked")
)

server <- function(input, output, session){

  output[["menu"]] <- renderNestedMenu({
    NestedMenu(
      "Cities", items = cities
    )
  })

  output[["clicked"]] <- renderPrint({
    input[["menu"]]
  })

}

if(interactive()){
  shinyApp(ui, server)
}
```

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