

Package ‘NestedMenu’

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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
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NestedMenu	<i>'Nested menu' widget</i>
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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	<i>Shiny bindings for 'NestedMenu'</i>
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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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