

Package ‘jqbr’

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Title 'jQuery QueryBuilder' Input for 'Shiny'

Version 1.0.4

Description A highly configurable 'jQuery' plugin offering a simple interface to create complex queries/filters in 'Shiny'. The outputted rules can easily be parsed into a set of 'R' and/or 'SQL' queries and used to filter data. Custom parsing of the rules is also supported. For more information about 'jQuery QueryBuilder' see [<https://querybuilder.js.org/>](https://querybuilder.js.org/).

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URL <https://github.com/hfshr/jqbr>, <https://hfshr.github.io/jqbr/>

BugReports <https://github.com/hfshr/jqbr/issues>

Imports htmltools, jsonlite, shiny

Suggests bslib, packer, testthat (>= 3.0.0)

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filter_table	<i>Apply query to a dataframe</i>
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Description

Filter a dataframe using the output of a queryBuilder. The return_value Should be set to r_rules, and the list of filters should contain column names that are present in the data as their id value.

Usage

```
filter_table(data = NULL, filters = NULL)
```

Arguments

data	data.frame to filter.
filters	output from queryBuilder when return_value = "r_rules".

Value

A filtered version of the input data.frame

Examples

```
library(shiny)
library(jqbr)

filters <- list(
  list(
    id = "cyl",
    type = "integer",
    input = "radio",
    values = list(
      4,
      6,
      8
    )
  )
)

ui <- fluidPage(
  queryBuilderInput(
    inputId = "r_filter",
    filters = filters,
    return_value = "r_rules"
  ),
  tableOutput("cars")
)

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

```

    output$cars <- renderTable({
      filter_table(mtcars, input$r_filter)
    })
  }

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

```

queryBuilderInput *queryBuilderInput*

Description

Shiny input bindings for queryBuilder.

Usage

```

queryBuilderInput(
  inputId,
  width = "100%",
  filters,
  plugins = NULL,
  rules = NULL,
  optgroups = NULL,
  default_filter = NULL,
  sort_filters = FALSE,
  allow_groups = TRUE,
  allow_empty = FALSE,
  display_errors = FALSE,
  conditions = c("AND", "OR"),
  default_condition = "AND",
  inputs_separator = ",",
  display_empty_filter = TRUE,
  select_placeholder = "-----",
  operators = NULL,
  add_na_filter = FALSE,
  return_value = c("r_rules", "rules", "sql", "all")
)

```

Arguments

inputId	string. Input id for the builder.
width	Width of the builder. Default if "100%".
filters	list of list specifying the available filters in the builder. See example for a See https://querybuilder.js.org/#filters for details on the possible options

plugins	list of optional plugins.
rules	Initial set of rules. By default the builder will contain one empty rule
optgroups	List of groups in the filters and operators dropdowns.
default_filter	string. The id of the default filter for any new rule.
sort_filters	boolean \ string. Sort filters alphabetically, or with a custom JS function.
allow_groups	boolean \ integer. Number of allowed nested groups. TRUE for no limit.
allow_empty	boolean. If TRUE, no error will be thrown if the builder is entirely empty.
display_errors	boolean. If TRUE, when an error occurs on a rule, display an icon with a tooltip explaining the error.
conditions	string. Array of available group conditions. Use the lang option to change the label.
default_condition	Default active condition. Default 'AND'.
inputs_separator	string used to separate multiple inputs (for between operator). default is ",".
display_empty_filter	boolean. Default TRUE. Add an empty option with select_placeholder string to the filter dropdowns. If the empty filter is disabled and no default_filter is defined, the first filter will be loaded when adding a rule.
select_placeholder	string. Label of the "no filter" option.
operators	NULL or list. If a list, format should follow that described here: https://querybuilder.js.org/#operators
add_na_filter	bool. Default is FALSE .If TRUE, "is_na" and "is_not_na" are added to the global filter list for testing for NA values. Only works when return_type is "rules" or "r_rules".
return_value	string. On of "r_rules", "rules", "sql_rules" or "all". Default "r_rules". Determines the return value from the builder accessed with input\$<builder_id> in shiny server

Value

A `htmltools::tagList()` containing the queryBuilder dependencies and configuration that can be added to a shiny UI definition.

Examples

```
library(shiny)
library(jqbr)

ui <- fluidPage(
  useQueryBuilder(),
  queryBuilderInput(
    inputId = "qb",
    filters = list(
      list(
        id = "name",
```

```
        type = "string"
      )
    )
  )
)

server <- function(input, output) {
  observeEvent(input$qb, {
    print(input$qb)
  })
}

# Add is_na filter

ui <- fluidPage(
  useQueryBuilder(),
  queryBuilderInput(
    inputId = "qb",
    add_na_filter = TRUE,
    return_value = "r_rules",
    filters = list(
      list(
        id = "name",
        type = "string"
      )
    )
  )
)

server <- function(input, output) {
  observeEvent(input$qb, {
    print(input$qb)
  })
}

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

run_jqbr_demo

run_jqbr_demo

Description

Run the jqbr demo app

Usage

run_jqbr_demo()

Value

A Shiny app

Examples

```
if (interactive()) {
  run_jqbr_demo()
}
```

updateQueryBuilder *updateQueryBuilder*

Description

Update a queryBuilder with available methods.

Usage

```
updateQueryBuilder(
  inputId,
  setFilters = NULL,
  addFilter = NULL,
  setRules = NULL,
  destroy = FALSE,
  reset = FALSE,
  session = shiny::getDefaultReactiveDomain()
)
```

Arguments

inputId	inputId of builder to update.
setFilters	list of lists container new filters.
addFilter	Named list containing filter and position elements. filter should be a list containing a list which has the new filter to add. position can be a string of either "start" or "end" or a integer specifying the position to insert the rule. If position if omitted, filter will be inserted at the end.
setRules	List of rules apply to the builder.
destroy	bool. TRUE to destroy filter.
reset	bool. TRUE to reset filter.
session	The session object passed to function given to shinyServer. Default is getDefaultReactiveDomain().

Value

An updated [queryBuilderInput\(\)](#)

Examples

```
library(shiny)
library(jqbr)

# Button to reset the build an remove all rules
ui <- fluidPage(
  useQueryBuilder(),
  queryBuilderInput(
    inputId = "qb",
    filters = list(
      list(
        id = "name",
        type = "string"
      )
    )
  ),
  actionButton("reset", "Reset")
)

server <- function(input, output) {
  observeEvent(input$reset, {
    updateQueryBuilder(
      inputId = "qb",
      reset = TRUE
    )
  })
}

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

useQueryBuilder

useQueryBuilder

Description

Make a call to `useQueryBuilder` in your ui code to load the required dependencies for the query-Builder and optionally specify the bootstrap version to use.

Usage

```
useQueryBuilder(bs_version = c("3", "4", "5"))
```

Arguments

`bs_version` The version of bootstrap to use with the builder. Possible values are "3", "4" or "5"

Value

list. html dependency for queryBuilderBinding. See [htmltools::htmlDependency\(\)](#) for further information.

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