Package 'cheetahR'

April 18, 2025

Title High Performance Tables Using 'Cheetah Grid'

Version 0.1.0

License GPL (>= 3)

Description An R interface to 'Cheetah Grid', a high-performance JavaScript table widget. 'cheetahR' allows users to render millions of rows in just a few milliseconds, making it an excellent alternative to other R table widgets. The package wraps the 'Cheetah Grid' JavaScript functions and makes them readily available for R users. The underlying grid implementation is based on 'Cheetah Grid' <https://github.com/future-architect/cheetah-grid>.

Encoding UTF-8

RoxygenNote 7.3.2

Depends R (>= 4.1.0)

Imports htmlwidgets, jsonlite, tibble

Suggests testthat (>= 3.0.0), utils, shiny, quarto, knitr, dplyr

Config/testthat/edition 3

VignetteBuilder quarto

NeedsCompilation no

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Repository CRAN

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cheetah   *Create a Cheetah Grid widget*

Description

Creates a high-performance table widget using Cheetah Grid.

Usage

```
cheetah(
  data,
  columns = NULL,
  width = NULL,
  height = NULL,
  elementId = NULL,
  rownames = TRUE
)
```

Arguments

data	A data frame or matrix to display
columns	A list of column definitions. Each column can be customized using column_def().
width	Width of the widget
height	Height of the widget
elementId	The element ID for the widget
rownames	Logical. Whether to show rownames. Defaults to TRUE.

Value

An HTML widget object of class 'cheetah' that can be:

- Rendered in R Markdown documents
- Used in Shiny applications
- Displayed in R interactive sessions

The widget renders as an HTML table with all specified customizations.

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cheetah-shiny   *Shiny bindings for cheetah*

Description

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

Usage

```
cheetahOutput(outputId, width = ”100%”, height = ”400px”)

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

Arguments

outputId	output variable to read from
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr	An expression that generates a cheetah
env	The environment in which to evaluate expr.
quoted	Is expr a quoted expression (with quote())? This is useful if you want to save an expression in a variable.

Value

cheetahOutput returns a Shiny output function that can be used in the UI definition. renderCheetah returns a Shiny render function that can be used in the server definition.

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column_def   *Column definition utility*

Description

Needed by [cheetah](#) to customize columns individually.

Usage

```
column_def(
  name = NULL,
  width = NULL,
  min_width = NULL,
  max_width = NULL,
  column_type = NULL,
  action = NULL,
  style = NULL
)
```

Arguments

`name`	Custom name.
`width`	Column width.
`min_width`	Column minimal width.
`max_width`	Column max width.
`column_type`	Column type. There are 6 possible options:

- `"text"` for text columns.
- `"number"` for numeric columns.
- `"check"` for check columns.
- `"image"` for image columns.
- `"radio"` for radio columns.
- `"multilinetext"` for multiline text in columns.

`action`	The action property defines column actions. Select the appropriate Action class for the column type. For instance, if the column type is `"text"`, the action can be `"input"`. There are 3 supported actions:

- `"input"` for input action columns.
- `"check"` for check action columns.
- `"radio"` for radio action columns.

`style`	Column style.

Value

A list of column options to pass to the JavaScript API.

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