

Package ‘shinyMatrix’

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Title Shiny Matrix Input Field

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Description Implements a custom matrix input field.

Depends R (>= 3.5)

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Encoding UTF-8

LazyData true

Imports shiny, jsonlite

Suggests testthat, covr

RoxygenNote 6.1.1

NeedsCompilation no

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 matrixInput

Create a matrix input field

Description

Use this function to create a matrix input field. Typically this would be in the ‘ui.R’ file of your shiny application. You can access the input via the ‘input\$*inputId*’ in the server function of the shiny application. The value will always be a matrix and contain values of class ‘class’.

Usage

```
matrixInput(inputId, value = matrix("", 1, 1), inputClass = "",
  rows = list(), cols = list(), class = "character", paste = FALSE,
  copy = FALSE, copyDoubleClick = FALSE)
```

Arguments

<code>inputId</code>	The input slot that will be used to access the value
<code>value</code>	Initial value. Should be a matrix
<code>inputClass</code>	class of the matrix input html element
<code>rows</code>	list of options to configure rows
<code>cols</code>	list of options to configure cols
<code>class</code>	Matrix will be coerced to a matrix of this class. ‘character’ and ‘numeric’ are supported
<code>paste</code>	enable paste functionality
<code>copy</code>	enable copy functionality
<code>copyDoubleClick</code>	enable functionality to copy cell on double click

Details

The parameters ‘rows’ and ‘cols’ take a list of arguments. Currently, the following arguments are supported:

n number of rows (is calculated from value as default)

names should row/colnames be displayed? The names are taken from value

editableNames should row/colnames be editable

extend Should the matrix be extended if data is entered in the last row/column?

delta how many blank rows/cols should be added?

createHeader, updateHeader name of javascript function to override default function to create/update table header. The function needs to have the table element and the data object as argument

getHeader same as createHeader but with table element as only argument

Examples

```
matrixInput(  
  "myMatrix",  
  value = diag(3),  
  rows = list(names = FALSE),  
  cols = list(names = FALSE),  
  copy = TRUE,  
  paste = TRUE  
)
```

startApplication	<i>Start Application</i>
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Description

This function starts an example app from the folder 'inst'.

Usage

```
startApplication(app = "app", port = 4242)
```

Arguments

app	name of the folder in 'inst'
port	port of web application

Examples

```
## Not run:  
startApplication("appCopy")  
  
## End(Not run)
```

updateMatrixInput	<i>Update matrix input</i>
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Description

This function updates the matrix input from R created with 'matrixInput'. It works like the other updateXXXInput functions in shiny.

Usage

```
updateMatrixInput(session, inputId, value)
```

Arguments

session	shiny session
inputId	id of matrix input
value	new value for matrix

Examples

```
## Not run:  
updateMatrixInput(session, "myMatrix", diag(4))  
  
## End(Not run)
```

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