Package: learnrhash (via r-universe)

November 21, 2024

Type Package

Title Tools for hashing learnr sessions

Version 0.2.0

Description This package provides tools for the hashing of learnr sessions. The resulting hashes are presented as base64 encoded strings which can easily be copied into a web form, LMS submission tool, etc.

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Encoding UTF-8

LazyData true

Imports learnr (> 0.10.1), shiny, base64enc, dplyr, tidyr, purrr, clipr, rlang, tibble, magrittr

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.2

Suggests testthat

Depends R (>= 3.5.0)

Config/pak/sysreqs make libicu-dev libx11-dev zlib1g-dev

Repository https://inqs909.r-universe.dev

RemoteUrl https://github.com/rundel/learnrhash

RemoteRef HEAD

RemoteSha be00e49fd90386c7d322eb1e6749a98a67d2554e

Contents

decode_obj *Decode hashed text into an R object*

Description

Decode hashed text into an R object

Usage

```
decode_obj(txt, compress = c("bzip2", "gzip", "xz", "none"))
```

Arguments

txt	Hashed text.
compress	Compression method.

encode_obj *Encode an R object into hashed text*

Description

Encode an R object into hashed text

Usage

```
encode_obj(obj, compress = c("bzip2", "gzip", "xz", "none"))
```

Arguments

obj	R object
compress	Compression method.

extract *Extract hash contents*

Description

The following are helper functions for extracting data from hashed learnr solutions.

- `extract_hash` - extracts the contents of the hashes into label, type, answer, correct, and timestamp columns
- `extract_questions` - extracts the contents of the hashes for answered questions.
- `extract_exercises` - extracts the contents of the hashes for answered exercises.

Usage

```
extract_hash(df, hash = "hash")

extract_exercises(df, hash = "hash")

extract_questions(df, hash = "hash")
```

Arguments

`df`	Data Frame. A data frame containing hash in a character column.
`hash`	Character. The name of the column containing the hashes

learnr_elements *Learnr addon elements*

Description

The following are addon element for learnr tutorials that enable the encoding and decoding of hashed learnr solutions.

Note that when including these functions in a learnr Rmd document it is necessary that the logic functions, `*_logic()`, be included in an R chunk where `context="server"` as they interact with the underlying Shiny functionality. Conversely, any of the ui functions, `*_ui()`, must *not* be included in an R chunk with a `context`. Both types of functions have been written to provide useful feedback if they detect they are in the wrong R chunk type.

Usage

```
decoder_logic()

decoder_ui()

encoder_logic(strip_output = FALSE)

default_ui(url = "http://google.com")

iframe_ui(src = "http://google.com", ...)

encoder_ui(ui_before = default_ui(), ui_after = NULL)
```

Arguments

strip_output	Exercises save their output as html, for exercises that result in plots these can result in very large hashes. The option allows this information to be removed to keep hash sizes more manageable.
url	Link url to use.
src	Source of the iframe.
...	Other iframe attributes, e.g. height and width
ui_before	Shiny ui elements to include before the hash ui
ui_after	Shiny ui elements to include after the hash ui,

Details

For either of the ui parameters you can wrap multiple shiny elements together with `shiny::div`.

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