Package 'harmonydata'

October 19, 2023

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Type Package
Title R Library for 'Harmony'
Version 0.1.1
Description 'Harmony' is a tool using AI which allows you to compare items from question- naires and identify similar content. You can try 'Har- mony' at harmonydata.ac.uk/app/ and you can read our blog at https://harmonydata.ac.uk/blog/ or at https://harmonydata.ac.uk/harmony-work/ . Documentation at https://harmonydata.ac.uk/harmony-r-released/ .
<pre>URL <https: harmonydata.ac.uk=""></https:></pre>
License MIT + file LICENSE
Encoding UTF-8
Imports httr, uuid, base64enc, jsonlite, utils, tools
RoxygenNote 7.2.3
NeedsCompilation no
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Repository CRAN
Date/Publication 2023-10-19 15:40:02 UTC
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```
get_example_instruments
```

Retrieve Example Instruments from 'Harmony Data API'

Description

This function retrieves example instruments from the 'Harmony Data API' using an HTTP POST request.

Usage

```
get_example_instruments()
```

Value

A list representing example instruments retrieved from the 'Harmony Data API'.

Author(s)

Ulster University [cph]

Examples

```
# Load required libraries (httr) and call the function
require(httr)
instruments <- get_example_instruments()
# Print the retrieved JSON content
print(instruments)</pre>
```

```
load\_instruments\_from\_file
```

Load Instruments from File

Description

This function loads instruments from a file specified by the path parameter and sends the file content to an API for further processing. It also accepts a URL leading to a file.

Usage

```
load_instruments_from_file(path)
```

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Arguments

path

The path to the file to load instruments from.

Value

A list of instruments returned from the API.

Author(s)

Ulster University [cph]

Examples

```
# Load instruments from a PDF file
pdf_file <- "https://www.apa.org/depression-guideline/patient-health-questionnaire.pdf"
response <- load_instruments_from_file(pdf_file)</pre>
```

match_instruments

Match Instruments Function

Description

This function takes a list of instruments, converts it to a format acceptable by the database, and matches the instruments using the 'Harmony Data API'. It returns the matched instruments.

Usage

```
match_instruments(instruments)
```

Arguments

instruments

A list of instruments to be matched.

Value

A list of matched instruments returned from the 'Harmony Data API'.

Author(s)

Ulster University [cph]

References

For more information about the 'Harmony Data API', visit: https://api.harmonydata.org/docs

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Examples

```
instruments_list <- list(</pre>
    instrument_id = "id1",
    instrument_name = "Instrument A",
    questions = list(
      list(
        question_text = "How old are you?",
        topics = c("Age", "Demographics"),
        source_page = "https://example.com/instrumentA"
      ),
      list(
        question_text = "What is your gender?",
        topics = c("Gender", "Demographics"),
        source_page = "https://example.com/instrumentA"
   )
  ),
  list(
    instrument_id = "id2",
    instrument_name = "Instrument B",
   questions = list(
      list(
        question_text = "Do you smoke?",
        topics = c("Smoking", "Health"),
        source_page = "https://example.com/instrumentB"
   )
 )
)
matched_instruments <- match_instruments(instruments_list)</pre>
```

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