

Package ‘refimpact’

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Title API Wrapper for the UK REF 2014 Impact Case Studies Database

Version 1.0.0

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Description Provides wrapper functions around the UK Research Excellence Framework 2014 Impact Case Studies Database API <<http://impact.ref.ac.uk/>>. The database contains relevant publication and research metadata about each case study as well as several paragraphs of text from the case study submissions. Case studies in the database are licenced under a CC-BY 4.0 licence <<http://creativecommons.org/licenses/by/4.0/legalcode>>.

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URL <https://github.com/ropensci/refimpact>

BugReports <https://github.com/ropensci/refimpact/issues>

Encoding UTF-8

LazyData true

Depends R (>= 3.2.5)

Imports checkmate (>= 1.8.2), httr (>= 1.2.1), jsonlite (>= 1.1),
tibble (>= 1.2), xml2 (>= 1.0.0), curl (>= 2.1)

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VignetteBuilder knitr

NeedsCompilation no

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get_case_studies	<i>Search and download case studies</i>
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Description

DEPRECATED - USE ref_get. This function uses the SearchCaseStudies method from the database API. The method requires at least one filtering parameter, which means you need to provide at least one argument to this function.

Usage

```
get_case_studies(ID = NULL, UKPRN = NULL, UoA = NULL, tags = NULL,
  phrase = NULL)
```

Arguments

ID	integer, can return multiple case studies if provided as a numeric vector. If this argument is provided then all other arguments will be ignored.
UKPRN	integer, filter for a specific institution using its UKPRN.
UoA	integer, filter for a specific Unit of Assessment.
tags	integer, filter for specific tag IDs. Can combine multiple tags if provided as a numeric vector. Multiple tags are combined with logical AND.
phrase	string, filter for a specific phrase. Currently only supports single words.

Details

This function returns a data_frame (from the tibble package) as it deals nicely with the nested data structures provided by the API. See the example code below for a demonstration of this behaviour.

Value

Returns a data_frame (from the tibble package).

Examples

```
## Not run:
studies <- get_case_studies(ID = c(27,29))
studies
studies[1,"Continent"] # [] gives list element
studies[[1,"Continent"]] # [[]] gives contents

## End(Not run)
```

get_institutions	<i>List Institutions</i>
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Description

DEPRECATED - USE `ref_get`. This function uses the `ListInstitutions` method from the database API and returns a list of institutions and associated metadata, including the UKPRN.

Usage

```
get_institutions()
```

Value

Returns a `data_frame` (from the `tibble` package).

Examples

```
## Not run:
get_institutions()

## End(Not run)
```

get_tag_types	<i>List Tag Types</i>
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Description

DEPRECATED - USE `ref_get`. This function uses the `ListTagTypes` method from the database API and returns a list of Tag Types and associated metadata.

Usage

```
get_tag_types()
```

Value

Returns a `data_frame` (from the `tibble` package).

Examples

```
## Not run:  
get_tag_types()  
  
## End(Not run)
```

get_tag_values	<i>List Tag Values</i>
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Description

DEPRECATED - USE `ref_get`. This function uses the `ListTagValues` method from the database API and returns a list of Tag Values for the supplied tag type.

Usage

```
get_tag_values(tag_type)
```

Arguments

`tag_type` numeric, a valid tag type ID. Use `get_tag_types()` to find valid tag types.

Value

Returns a `data_frame` (from the `tibble` package).

Examples

```
## Not run:  
get_tag_values(3) # Tag Type 3 (Subject)  
  
## End(Not run)
```

get_units_of_assessment
List Units of Assessment

Description

DEPRECATED - USE `ref_get`. This function uses the `ListUnitsOfAssessment` method from the database API and returns a list of Units of Assessment and associated metadata.

Usage

```
get_units_of_assessment()
```

Value

Returns a `data_frame` (from the `tibble` package).

Examples

```
## Not run:  
get_units_of_assessment()  
  
## End(Not run)
```

refimpact *refimpact: API wrapper for the UK REF 2014 Impact Case Studies Database*

Description

This package provides wrapper functions around the UK Research Excellence Framework 2014 Impact Case Studies Database API (<http://impact.ref.ac.uk/>). The database contains relevant publication and research metadata about each case study as well as several paragraphs of text from the case study submissions. Case studies in the database are licenced under a CC-BY 4.0 licence (<http://creativecommons.org/licenses/by/4.0/legalcode>).

Details

To get started, see [ref_get](#) and read the vignette using `vignette('refimpact')`.

`ref_get`*Call the REF Impact Case Studies API*

Description

This function calls the REF Impact Case Studies API, and returns the dataset as a tibble. See the vignette for more details about how to use this function.

Usage

```
ref_get(api_method, tag_type = NULL, query = NULL)
```

Arguments

<code>api_method</code>	text, the API method you wish to call. Valid methods are summarised below, and documented on the REF Impact Case Studies website linked above, as well as in the vignette.
<code>tag_type</code>	integer, for ListTagValues method only. This is the ID of the tag type you wish to retrieve. See example usage below.
<code>query</code>	list, search parameters for use with the SearchCaseStudies method. See example usage below.

Details

Details about the API can be found at <http://impact.ref.ac.uk/CaseStudies/APIhelp.aspx>.

Value

Returns a [tibble](#) with nested data frames. To access the nested data frames, subset the tibble using the `[[]]` syntax. For more information, see the vignette.

Valid API methods

- ListInstitutions (no arguments)
- ListTagTypes (no arguments)
- ListTagValues (tag_type is a compulsory argument)
- ListUnitsOfAssessment (no arguments)
- SearchCaseStudies (query is a compulsory argument - see below)

SearchCaseStudies query argument

This argument is used to pass search parameters through to the API. These parameters are passed as a named list, and you must provide at least one parameter for this method. There are 5 parameters:

- ID - Takes a single ID or a vector of IDs. If you use this parameter you cannot use any of the other 4 parameters.

- UKPRN (UK Provider Reference Number) - takes a single UKPRN. You can get a list of valid values using the ListInstitutions method.
- UoA - This is a code referencing a Unit of Assessment, and you can get a list of valid values from the ListUnitsOfAssessment method. Takes a single UoA.
- tags - This is one or more codes referencing tags from the ListTagValues method. When multiple tags are provided to the search method, it will only return rows which contain both tags. To help you discover tags that you can use here, you can look at the ref_tags dataset (bundled with this package)
- phrase - You can search the database using a text query. The query must conform to Lucene search query syntax.

For more information about how to use these parameters, see the vignette.

Examples

```
institutions <- ref_get("ListInstitutions")
units_of_assessment <- ref_get("ListUnitsOfAssessment")
tag_types <- ref_get("ListTagTypes")
tag_type_5 <- ref_get("ListTagValues", 5L)
ref_get("SearchCaseStudies", query = list(ID = c(27121,1698)))
ref_get("SearchCaseStudies", query = list(UKPRN = 10007777))
ref_get("SearchCaseStudies", query = list(UoA = 5))
ref_get("SearchCaseStudies", query = list(tags = c(11280, 5085)))
ref_get("SearchCaseStudies", query = list(phrase = "hello"))
ref_get("SearchCaseStudies", query = list(UKPRN = 10007146, UoA = 3))
```

ref_tags

Table of all REF Impact Case Study tags.

Description

This table contains the complete set of REF Impact Case Study tags, saving the user the effort of iteratively querying the API for each tag type.

Usage

```
ref_tags
```

Format

A data frame with 9,400 rows and 4 variables:

ID integer, the Tag ID for use in the SearchCaseStudies method

Name string, the name of the tag

TypeID integer, the Tag Type ID used in the ListTagValues method

TagType string, the Tag Type for each tag

Source

<http://impact.ref.ac.uk/>

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