Package ‘fedreporter’

October 3, 2017

Version 0.2.1

Title Interface to Federal 'RePORTER' API

Description Downloads data from Federal 'RePORTER'
   <https://api.federalreporter.nih.gov/> using the Federal 'RePORTER' API,
   Allows the user to search job projects from different government agencies.

License GPL-3

Imports httr, jsonlite

Suggests knitr, rmarkdown, covr, testthat

Encoding UTF-8

LazyData true

ByteCompile true

Type Package

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URL https://github.com/muschellij2/fedreporter

BugReports https://github.com/muschellij2/fedreporter/issues

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**fe_agencies**  
*Agency arguments for Federal Reporters*

**Description**  
Agency arguments for Federal Reporters

**Usage**  
fe_agencies

**Format**  
A character vector

**Note**  

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**fe_base_url**  
*Federal Exporter Base URL*

**Description**  
Federal Exporter Base URL

**Usage**  
fe_base_url(secure = TRUE)

**Arguments**  
secure Should https be used (may be necessary)

**Value**  
Character vector (length 1)of URL

**Examples**  
fe_base_url()
**Description**

Federal RePORTER projects

**Usage**

```
fe_projects(nih_id = NULL, internal_id = NULL, project_number = NULL,
            verbose = TRUE, secure = TRUE)
```

**Arguments**

- **nih_id**: global identifier for a project across all NIH systems that handle research projects/grants data. Example, 8828294.
- **internal_id**: internal Federal RePORTER generated unique ID associated with each project. It is available as part of export on Federal RePORTER search results. Example, 739576.
- **project_number**: unique number that is assigned to a project by the affiliated federal agency. Examples: '5R01MH092950-05', '1R01CA183929-01A1', 'USFS-0000779'.
- **verbose**: print diagnostic messages
- **secure**: passed to `fe_base_url` for https

**Value**

List of the result of the GET call and the content

**Note**

See [https://api.federalreporter.nih.gov/#!/Projects/Get_Project](https://api.federalreporter.nih.gov/#!/Projects/Get_Project)

**Examples**

```
res = fe_projects(project_number = "5R01MH092950-05")
```
fe_projects_multiple

Fetch multiple projects by internal Federal RePORTER IDs (SM ID or Project Numbers)

Description

Fetch multiple projects by internal Federal RePORTER IDs (SM ID or Project Numbers)

Usage

fe_projects_multiple(internal_id = NULL, project_number = NULL, secure = TRUE)

Arguments

- internal_id: internal Federal 'RePORTER' generated unique ID associated with each project. It is available as part of export on Federal RePORTER search results. Example, 739576.
- project_number: unique number that is assigned to a project by the affiliated federal agency. Examples: '5R01MH092950-05', '1R01CA183929-01A1', 'USFS-0000779'.
- secure: passed to fe_base_url for https

Value

List of the result of the GET call and the content

Note

See https://api.federalreporter.nih.gov/#!/Projects/Get_Project, this calls POST /v1/projects/FetchBySmApp

Examples

```r
res = fe_projects_multiple(
  project_number = c("5R01MH092950-05", "USFS-0000779")
)
res = fe_projects_multiple(
  internal_id = c("739576", "739577")
)
```
Description

Search Federal RePORTER Projects

Usage

fe_projects_search(project_number = NULL, fiscal_year = NULL, text = NULL, text_field = c("title", "abstract", "terms"), text_operator = c("AND", "OR"), agency = NULL, pi_name = NULL, offset = 1, limit = 50, verbose = TRUE, secure = TRUE)

Arguments

- **project_number**: unique number that is assigned to a project by the affiliated federal agency. Examples, 5R01MH092950-05, 1R01CA183929-01A1, USFS-0000779. Can also use wildcards such as *R01*.
- **fiscal_year**: Fiscal year of data to obtain
- **text**: Search text from title, abstract, and terms data
- **text_field**: text field to search, can be title, abstract or terms, and defaults to search all. Only enabled when text is not NULL.
- **text_operator**: Text operator to combine text terms, Can be AND or OR, AND is default. Only enabled when text is not NULL.
- **agency**: Agency code to search. see **fe_agencies**
- **pi_name**: Principal investigator name. Names are to be in the Last First M, Last, First, First, Last, or First Last formats. Multiple names can be given.
- **offset**: start at item # (starts at 1)
- **limit**: max # of items to return (at the most 50 per request)
- **verbose**: print diagnostic messages
- **secure**: Should https be used, passed to **fe_base_url**

Value

List of the result of the GET call and the content

Examples

```
res = fe_projects_search(
  project_number = "USFSx",
  fiscal_year = 2012)
res = fe_projects_search(
  project_number = "*R01x*",
  fiscal_year = 2012,
)```
agency = "NIH",
text = "stroke",
text_field = "title")

## Not run:
res = fe_projects_search(pi_name = "MATSUI, ELIZABETH")
items = res$content$items
con_pis = sapply(items, "[[", "contactPi")
keep = grepl("^MATSUI", con_pis)
items = items[keep]
mat_costs = sapply(items, "[[", "totalCostAmount")
sum(mat_costs)

res = fe_projects_search(pi_name = "PENG, ROGER")
items = res$content$items
con_pis = sapply(items, "[[", "contactPi")
keep = grepl("^PENG", con_pis)
items = items[keep]
peng_costs = sapply(items, "[[", "totalCostAmount")
sum(peng_costs)

both = fe_projects_search(
pi_name = c("MATSUI, ELIZABETH", "PENG, ROGER"))

## End(Not run)
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