

Package ‘nsrr’

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Type Package

Title Interface to National Sleep Research Resource

Version 0.1.3

Description Allows users to access data from the National Sleep Research Resource ('NSRR') <<https://sleepdata.org/>>.

License GPL-3

Imports httr, jsonlite, tools, digest, stats, utils

Suggests covr, DT, knitr, rmarkdown, testthat, xml2, rvest

Encoding UTF-8

LazyData true

VignetteBuilder knitr

URL <https://github.com/muschellij2/nsrr>

BugReports <https://github.com/muschellij2/nsrr/issues>

RoxygenNote 6.1.1

NeedsCompilation no

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Repository CRAN

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nsrr_all_dataset_files
NSRR All Dataset files

Description

NSRR All Dataset files

Usage

```
nsrr_all_dataset_files(dataset, token = nsrr_token(), max_files = Inf)
```

Arguments

dataset	a dataset "slug", one from nsrr_datasets
token	Token for NSRR resources. Found at https://sleepdata.org/token
max_files	maximum files to return if not wanting to go through all folders recursively.

Value

A data.frame of the data sets and their endpoints

Examples

```
dataset = "shhs"
df = nsrr_all_dataset_files(dataset, max_files = 10)
testthat::expect_lte(nrow(df), 20)
## Not run:
df = nsrr_all_dataset_files(dataset)

## End(Not run)
```

nsrr_datasets *NSRR data sets*

Description

NSRR data sets

Usage

```
nsrr_datasets(token = nsrr_token(), page = NULL)

nsrr_dataset(dataset = NULL, token = nsrr_token())

nsrr_dataset_files(dataset = NULL, path = NULL, token = nsrr_token())
```

Arguments

token	Token for NSRR resources. Found at https://sleepdata.org/token
page	which page to grab. Increment over successive requests to retrieve all datasets. A request that return NULL or a number of datasets less than 18 indicates the last page.
dataset	a dataset "slug", one from nsrr_datasets
path	a folder or file path inside the dataset

Value

A data.frame of the data sets and their endpoints

Examples

```
df = nsrr_datasets(page = 1)
df = nsrr_datasets()
if (attributes(df)$status_code == 200) {
  testthat::expect_is(df, "data.frame")
  slugs = c("abc", "bestair", "chat", "ccshs", "cfs",
            "heartbeat", "hchs", "homepap", "haassa", "learn")
  testthat::expect_true(all(slugs %in% df$slug))
}
nsrr_dataset(dataset = "shhs", token = "")
dataset = "shhs"
token = NULL
df = nsrr_dataset_files(dataset)
ddf = nsrr_dataset_files(dataset, path = df$full_path[1])

dataset = "shhs"
token = NULL
df = nsrr_dataset_files(dataset)
nsrr_dataset_files("wecare")

testthat::expect_error(nsrr_dataset_files(), "one data")
testthat::expect_error(nsrr_dataset_files(c("shhs", "chat")), "one data")
```

nsrr_download_url	<i>NSRR Download file</i>
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Description

NSRR Download file

Usage

```
nsrr_download_url(dataset, path, token = nsrr_token())

nsrr_download_file(dataset, path, token = nsrr_token(),
  check_md5 = TRUE)
```

Arguments

dataset	a dataset "slug", one from nsrr_datasets
path	full path to the file.
token	Token for NSRR resources. Found at https://sleepdata.org/token
check_md5	check if MD5 checksum agrees when downloaded

Value

A data.frame of the data sets and their endpoints

Examples

```

if (requireNamespace("xml2", quietly = TRUE) &
    requireNamespace("rvest", quietly = TRUE)) {
  doc = xml2::read_html("https://sleepdata.org/datasets/shhs/files/datasets")
  tab = rvest::html_table(doc)[[1]]
  path = tab$X2
  path = path[ grep1("shhs-data-dictionary-.*-domains", path)]
  path = path[1]
  path = paste0("datasets/", path)
} else {
  path = "datasets/shhs-data-dictionary-0.14.0-domains.csv"
}
dataset = "shhs"
nsrr_download_url(dataset, path, token = "")
if (nsrr_have_token()) {
  res = nsrr_download_file(dataset, path)
  testthat::expect_true(res$success)
  path = "biostatistics-with-r/shhs1.txt"
  res = nsrr_download_file(dataset, path)
}
url = nsrr_download_url("shhs", path = "datasets/CHANGELOG.md",
  token = NULL)
res = nsrr_download_file("shhs", path = "datasets/CHANGELOG.md",
  token = NULL)
testthat::expect_true(res$correct_md5)
res = nsrr_download_file("shhs", path = "datasets/CHANGELOG.md",
  token = NULL, check_md5 = FALSE)
testthat::expect_null(res$correct_md5)

```

nsrr_token

NSRR Token

Description

NSRR Token

Usage

```

nsrr_token(token = NULL)

nsrr_have_token(token = NULL)

nsrr_auth(token = NULL)

nsrr_authenticated(token = NULL)

```

Arguments

token Token for NSRR resources. Found at <https://sleepdata.org/token>

Value

A character vector or NULL

Examples

```

is.null(nsrr_token())
if (!is.null(nsrr_token())) {
  res = nsrr_auth()
  res$authenticated
}
bad_res = nsrr_auth("")
bad_res$authenticated
nsrr_have_token()
nsrr_authenticated()

```

nsrr_version	<i>NSRR Gem version online</i>
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Description

NSRR Gem version online

Usage

```

nsrr_version()

nsrr_gem_version()

nsrr_api_version()

```

Value

A character of the version

Examples

```
nsrr_version()
nsrr_gem_version()
```

nsrr_website

The NSRR Website URL

Description

The NSRR Website URL

Usage

```
nsrr_website()
nsrr_api_url()
```

Value

A character value of the website

Examples

```
nsrr_website()
```

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