Package: NHSRpopulation (via r-universe)

October 21, 2024

Title Indices of Multiple Deprivation (IMD) for England

Date 2021-07-08

Version 0.0.2

Description This package includes functions to retrieve the Indices of
Multiple Deprivation (IMD) data from the ONS by LSOA, currently
for England.

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URL https://nhs-r-community.github.io/NHSRpopulation/

BugReports https://github.com/nhs-r-community/NHSRpopulation/issues

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.1

Imports dplyr, httr2, janitor, magrittr, NHSRpostcodetools, purrr,
rlang, stringr, tibble

Depends R (>= 2.10)

Suggests httptest2, knitr, rmarkdown, testthat (>= 3.0.0)

Remotes nhs-r-community/NHSRpostcodetools

VignetteBuilder knitr

Config/testthat/edition 3

Repository https://nhs-r-community.r-universe.dev

RemoteUrl https://github.com/nhs-r-community/NHSRpopulation

RemoteRef main

RemoteSha f62fa49d6026bdc92486b562f63e65652a8b837a

Contents

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api_url   *Getting data from the IMD api*

Description

Only required for IMD as postcodes is routed through the NHSRpostcodetools package

Usage

```
api_url()
```

Value

dataset

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get_data   *Query information to restrict data returned*

Description

This function queries the API based on the information required and returns ids as these have no restriction applied to them. The IMD API restricts to 2k records for example.

Postcode and LSOA parameters require data because bringing all the data from the Online_ONS_Postcode_Directory_Live will take too long and is often unnecessary.

Usage

```
get_data(
  data,
  url_type = c("postcode", "imd"),
  fix_invalid = TRUE,
  column = "default"
)
```

Arguments

data	dataframe or vector.The data that will connect to either the postcode API or imd API.
url_type	String defaults to postcode which returns information from Online_ONS_Postcode_Directory_Live to return Postcode information via the NHSRpostcodetools package. imd connects to Indices_of_Multiple_Deprivation_(IMD)_2019 to return IMD information.
fix_invalid	Boolean, default TRUE. Whether to try to fix any postcodes that are not found (potentially because they are terminated codes, or contain typos).

column	String. Default would mean the automatic connection of a column called `postcode` if postcode data is being expected or `lsoa11` if imd data as requested via the parameter `url_type = "imd"`.

Value

data frame

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is_lsoa	*Function to check if a string is an LSOA code*

Description

Function to check if a string is an LSOA code

Usage

```
is_lsoa(data)
```

Arguments

data	string

Value

Logical

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is_postcode	*Function to check if a string is a valid postcode regardless of its formatting.*

Description

With or without one space is permitted. Does not work with data where two spaces are included with 6 character postcodes. From the MIT licenced package Rbduk https://github.com/sama-ds/Rbduk/blob/main/R/is_postcode.R

Usage

```
is_postcode(data)
```

Arguments

data	string

Value

Logical

Examples

```
is_postcode("SW1a2nP")
is_postcode("SW1a 2nP")
```

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