Package 'hudr'

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Title Providing Data from the US Department of Housing and Urban
Development

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Description Provides functions to access data from the US Department of Housing and Urban Development <https://www.huduser.gov/portal/dataset/fmr-api.html>.

License GPL (>= 3)

Depends R (>= 3.5.0)

Imports magrittr, data.table, janitor, httr

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hudr-package *Package that provides data from HUD.*

Description

Provides functions to access data from the US Department of Housing and Urban Development
<https://www.huduser.gov/portal/dataset/fmr-api.html>.

Details

Provides data from the US Department of Housing and Urban Development (HUD).

References

<https://www.huduser.gov/portal/dataset/fmr-api.html>

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get_hud_chas_data *Get HUD Comprehensive Housing Affordability Strategy (CHAS) data at the Place, MCD, County, State, National Level from HUD.*

Description

Provides Comprehensive Housing Affordability Strategy (CHAS) data at the Place, MCD, County, State, National Level from HUD.

Usage

```
get_hud_chas_data(
  entityid,
  stateid,
  type,
  yr,
  hud_key = Sys.getenv("HUD_API_KEY")
)
```

Arguments

entityid	Character string containing the 'fips_code' from get_hud_fmr_listcounties(...) or 'cbsa_code' from get_hud_fmr_listmetros(...).
stateid	Character string containing the 'fips_code' for the State.
type	Character string indicating the summary level. Option include 1-5. 1 - Nation, 2 - State, 3 - County, 4 - MCD, 5 - Place.
yr	Character string indicating the year.
hud_key	Character string indicating your API key from HUD.

Details

Provides fair market rent data at the County and MSA level from HUD.

Value

A list of data tables containing fair market rent data from HUD.

Author(s)

Paul Richardson

Examples

```
## Not run:
library(hudr)

hud_key <- Sys.getenv("HUD_API_KEY")

chas_cnty_dt <- get_hud_chas_data(entityid = "033", stateid = "53",
                                  type = "3", yr = "2014-2018",
                                  hud_key = hud_key)

## End(Not run)
```

---

get_hud_chas_entityid_list

Get HUD Comprehensive Housing Affordability Strategy (CHAS) data
at the Place, MCD, County, State, National Level from HUD.

Description

Provides a data.table containing the entityIds for all of the counties within a given state for the Comprehensive Housing Affordability Strategy (CHAS) data from HUD.

Usage

```
get_hud_chas_entityid_list(
  stateid,
  geo_lvl,
  hud_key = Sys.getenv("HUD_API_KEY")
)
```

Arguments

stateid	Character string containing the 'fips_code' for the State.
geo_lvl	Character string indicating either "county", "MDC", or "city".
hud_key	Character string indicating your API key from HUD.

Details

Provides fair market rent data at the County and MSA level from HUD.

Value

A list of data tables containing fair market rent data from HUD.

Author(s)

Paul Richardson

Examples

```
## Not run:
library(hudr)

hud_key <- Sys.getenv("HUD_API_KEY")

chas_cnty_lst_dt <- get_hud_chas_entityid_list(stateid = "53",
                                               geo_lvl = "county",
                                               hud_key = hud_key)

## End(Not run)
```

---

get_hud_fmr_data	*Get HUD Fair Market Rent data at the County or MSA Level from HUD.*

Description

Provides fair market rent data at the County and MSA level from HUD.

Usage

```
get_hud_fmr_data(entityid, yr, hud_key = Sys.getenv("HUD_API_KEY"))
```

Arguments

entityid	Character string containing the 'fips_code' from get_hud_fmr_listcounties(...) or 'cbsa_code' from get_hud_fmr_listmetros(...).
yr	Character string indicating the year.
hud_key	Character string indicating your API key from HUD. Default is Sys.getenv("HUD_API_KEY").

Details

Provides fair market rent data at the County and MSA level from HUD.

Value

A list of data tables containing fair market rent data from HUD.

Author(s)

Paul Richardson

Examples

```
## Not run:
library(hudr)

hud_key <- Sys.getenv("HUD_API_KEY")

cbsa_codes <- get_hud_fmr_listmetros(hud_key = hud_key)
cnty_codes <- get_hud_fmr_listcounties(hud_key = hud_key)

fmr_msa_dt <- get_hud_fmr_data(entityid = cbsa_codes$cbsa_code[1],
                               yr = "2020",
                               hud_key = hud_key)
fmr_cnty_dt <- get_hud_fmr_data(entityid = cnty_codes$fips_code[1],
                                yr = "2020",
                                hud_key = hud_key)

## End(Not run)
```

---

get_hud_fmr_listcounties

Get HUD List of County Codes data.

Description

Provides list of county codes data from HUD.

Usage

```
get_hud_fmr_listcounties(stateid, hud_key = Sys.getenv("HUD_API_KEY"))
```

Arguments

stateid	Character string indicating the state.
hud_key	Character string indicating your API key from HUD.

Details

Provides list of county codes data from HUD.

Value

A data table containing a list of county codes from HUD.

Author(s)

Paul Richardson

Examples

```
## Not run:
library(hudr)

hud_key <- Sys.getenv("HUD_API_KEY")

state_codes <- get_hud_fmr_listcounties(hud_key = hud_key)

## End(Not run)
```

get_hud_fmr_listmetros

Get HUD List of MSA Codes data.

Description

Provides list of MSA codes data from HUD.

Usage

```
get_hud_fmr_listmetros(hud_key = Sys.getenv("HUD_API_KEY"))
```

Arguments

hud_key   Character string indicating your API key from HUD.

Details

Provides list of MSA codes from HUD.

Value

A data table containing a list of MSA codes from HUD.

Author(s)

Paul Richardson

Examples

```
## Not run:
library(hudr)

hud_key <- Sys.getenv("HUD_API_KEY")

cbsa_codes <- get_hud_fmr_listmetros(hud_key = hud_key)

## End(Not run)
```

---

get_hud_fmr_liststates

Get HUD List of State Codes data.

Description

Provides list of state codes data from HUD.

Usage

```
get_hud_fmr_liststates(hud_key = Sys.getenv("HUD_API_KEY"))
```

Arguments

hud_key   Character string indicating your API key from HUD.

Details

Provides list of state codes data from HUD.

Value

A data table containing a list of state codes from HUD.

Author(s)

Paul Richardson

Examples

```
## Not run:
library(hudr)

hud_key <- Sys.getenv("HUD_API_KEY")

state_codes <- get_hud_fmr_liststates(hud_key = hud_key)

## End(Not run)
```

---

get_hud_fmr_statedata *Get HUD Fair Market Rent data at the State Level from HUD.*

Description

Provides fair market rent data at the State level from HUD.

Usage

```
get_hud_fmr_statedata(entityid, yr, hud_key = Sys.getenv("HUD_API_KEY"))
```

Arguments

entityid	Character string containing the 'state_code' from get_hud_fmr_liststates(...).
yr	Character string indicating the year.
hud_key	Character string indicating your API key from HUD. Default is Sys.getenv("HUD_API_KEY").

Details

Provides fair market rent data at the State level from HUD.

Value

A list of data tables containing fair market rent data from HUD.

Author(s)

Paul Richardson

Examples

```
## Not run:
library(hudr)

hud_key <- Sys.getenv("HUD_API_KEY")

state_codes <- get_hud_fmr_liststates(hud_key = hud_key)

fmr_state_dt <- get_hud_fmr_statedata(entityid = state_codes$state_code[1],
                                      yr = "2020",
                                      hud_key = hud_key)

## End(Not run)
```

---

get_hud_il_data *Get HUD Income Limit data at the County or MSA Level from HUD.*

Description

Provides income limit data at the County and MSA level from HUD.

Usage

```
get_hud_il_data(entityid, yr, hud_key = Sys.getenv("HUD_API_KEY"))
```

Arguments

entityid	Character string containing the 'fips_code' from get_hud_fmr_listcounties(...) or 'cbsa_code' from get_hud_fmr_listmetros(...).
yr	Character string indicating the year.
hud_key	Character string indicating your API key from HUD. Default is Sys.getenv("HUD_API_KEY").

Details

Provides income limit data at the County and MSA level from HUD.

Value

A list of data tables containing income limit data from HUD.

Author(s)

Paul Richardson

Examples

```
## Not run:
library(hudr)

hud_key <- Sys.getenv("HUD_API_KEY")

cbsa_codes <- get_hud_fmr_listmetros(hud_key = hud_key)
cnty_codes <- get_hud_fmr_listcounties(hud_key = hud_key)

il_msa_dt <- get_hud_il_data(entityid = cbsa_codes$cbsa_code[1],
                             yr = "2020",
                             hud_key = hud_key)
il_cnty_dt <- get_hud_il_data(entityid = cnty_codes$fips_code[1],
                              yr = "2020",
                              hud_key = hud_key)

## End(Not run)
```

---

get_hud_il_statedata   *Get HUD Income Limit data at the State Level from HUD.*

Description

Provides income limit data at the State level from HUD.

Usage

```
get_hud_il_statedata(entityid, yr, hud_key = Sys.getenv("HUD_API_KEY"))
```

Arguments

entityid	Character string containing the 'state_code' from get_hud_fmr_liststates(...).
yr	Character string indicating the year.
hud_key	Character string indicating your API key from HUD. Default is Sys.getenv("HUD_API_KEY").

Details

Provides income limit data at the State level from HUD.

Value

A list of data tables containing income limit data from HUD.

Author(s)

Paul Richardson

Examples

```
## Not run:
library(hudr)

hud_key <- Sys.getenv("HUD_API_KEY")

state_codes <- get_hud_fmr_liststates(hud_key = hud_key)

il_state_dt <- get_hud_il_statedata(entityid = state_codes$state_code[1],
                                    yr = "2020",
                                    hud_key = hud_key)

## End(Not run)
```

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