Package 'iuropa'

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Title An R Interface to the IUROPA API

Version 0.1.0

Description
This package includes tools for downloading data from the IUROPA CJEU Database and for interacting with the IUROPA API. The CJEU Database currently includes the CJEU Database Platform and the CJEU Text Corpus. This package also includes a variety of useful tools for working with CJEU data.

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authenticate *Authenticate with the IUROPA API*

Description

This function allows you to authenticate with the IUROPA API. It creates a session. You need to provide your IUROPA username and password to authenticate. This function returns an object of class `iuropa_session` that contains the credentials necessary to request password-protected data from the IUROPA API. You need to pass this session object into any function that requires a `session` argument. A session times out after 30 minutes. If your session times out, you will need to run this function again to create a new session. You can have multiple active sessions at the same time.

Usage

```
authenticate(username, password)
```

Arguments

username	A string. Your IUROPA username.
password	A string. Your IUROPA password.

Value

This function returns an object of class `iuropa_session`.

Examples

```
## Not run:
session <- authenticate(
  username = "USERNAME",
  password = "PASSWORD"
)
## End(Not run)
```

---

check_authentication *Check authentication with the IUROPA API*

Description

This function checks whether you are currently authenticated with the IUROPA API. You need to provide an object of class `iuropa_session` created by the function `authenticate()`.

Usage

```
check_authentication(session)
```

Arguments

session	An object of class `iuropa_session` created by `authenticate()`.

Value

This function prints a message to the console but does not return an object.

Examples

```
## Not run:
session <- authenticate(
  username = "USERNAME",
  password = "PASSWORD"
)

check_authentication(session)
## End(Not run)
```

---

describe_components   *Describe the IUROPA components*

Description

The IUROPA project includes a number of components. This function provides descriptions of all of the components that are currently available via the IUROPA API.

Usage

```
describe_components(session)
```

Arguments

session   An object of class `iuropa_session` created by `authenticate()`.

Value

This function returns a tibble containing 5 variables. There is one observation per IUROPA component.

Examples

```
## Not run:
session <- authenticate(
  username = "USERNAME",
  password = "PASSWORD"
)

out <- describe_components(session = session)
## End(Not run)
```

---

describe_datasets   *Describe datasets in a IUROPA component*

Description

This function provides descriptions of all of the datasets that are currently available in a particular IUROPA component. You have to specify a IUROPA component.

Usage

```
describe_datasets(session, component)
```

Arguments

session   An object of class `iuropa_session` created by `authenticate()`.

component   A string. The name of a IUROPA component. Use `list_components()` to get
                  a list of valid values.

Value

This function returns a tibble containing 5 variables. There is one observation per dataset in the specified component.

Examples

```
## Not run:
session <- authenticate(
  username = "USERNAME",
  password = "PASSWORD"
)

out <- describe_datasets(
  session = session,
  component = "cjeu_database_platform"
)
## End(Not run)
```

---

describe_variables   *Describe variables in a IUROPA dataset*

Description

This function provides descriptions of all of the variables that are currently available in a particular IUROPA dataset. You have to specify a IUROPA component and a IUROPA dataset in that component.

Usage

```
describe_variables(session, component, dataset)
```

Arguments

session	An object of class `iuropa_session` created by `authenticate()`.
component	A string. The name of a IUROPA component. Use `list_components()` to get a list of valid values.
dataset	A string. The name of a IUROPA dataset in the specified IUROPA component. Use `list_datasets()` to get a list of valid values.

Value

This function returns a tibble containing 7 variables. There is one observation per variable in the specified dataset.

Examples

```
## Not run:
session <- authenticate(
  username = "USERNAME",
  password = "PASSWORD"
)

out <- describe_variables(
  session = session,
  component = "cjeu_database_platform",
  dataset = "decisions"
)
## End(Not run)
```

---

download_data   *Download IUROPA data*

Description

This function allows you to download data from the IUROPA API. You need to choose a IUROPA component and a dataset in that component. For example, you could choose the `decisions` dataset of the CJEU Database Platform. You can also specify filters and select specific variables. You can use `describe_variables()` to learn more about the variables available in each dataset.

Usage

```
download_data(session, component, dataset, filters = NULL, variables = NULL)
```

Arguments

session	An object of class `iuropa_session` created by `authenticate()`.
component	A string. The name of a IUROPA component. Use `list_components()` to get a list of valid values.
dataset	A string. The name of a IUROPA dataset in the specified IUROPA component. Use `list_datasets()` to get a list of valid values.

filters
: A named list. The default is NULL. Each element in the list specifies a filter to apply to the data. The name of each element should be the name of a variable in the specified dataset and the corresponding value should be a value or vector of values that the variable can take. The results will only include observations where the variable equals one of the provided values. If you specify multiple filters, the results will only include observations that match all of the filters. For numeric variables, you can add _min or _max to the end of the variable name to specify a minimum or maximum value.

variables
: A string vector. The default is NULL. The results will only include the variables in the vector. Use list_variables() to get a list of valid values. The function will throw an error if you provide an invalid variable name.

Details

The IUROPA API has a rate limit, so this function downloads data from the IUROPA API in batches. It downloads 10,000 observations every 5 seconds. It prints a message to the console that indicates how many observations you have requested and approximately how long it will take to download the data. It also prints a message after every batch that indicates the current progress. After your download is complete, it will print the suggested citations for the data. Please use these citations if you use the data in a paper or project.

Value

This function returns a tibble that contains the requested data.

Examples

```
## Not run:
session <- authenticate(
  username = "USERNAME",
  password = "PASSWORD"
)

out <- download_data(
  session = session,
  component = "cjeu_database_platform",
  dataset = "decisions",
  filters = list(
    court = c("Court of Justice", "General Court")
  )
)

out <- download_data(
  session = session,
  component = "cjeu_database_platform",
  dataset = "assignments",
  filters = list(
    court = "Court of Justice",
    decision_date_min = "2015-01-01"
  ),
  variables = c("ecli", "judge_id", "last_name")
)
## End(Not run)
```

---

list_components   *List the IUROPA components*

Description

The IUROPA project includes a number of components. This function lists the components that are currently available via the IUROPA API. A number of functions in the iuropa package have a component argument. The values returned by list_components() are those that are valid for this argument.

Usage

```
list_components(session)
```

Arguments

session   An object of class iuropa_session created by authenticate().

Value

This function returns a string vector containing the names of the IUROPA components.

Examples

```
## Not run:
session <- authenticate(
  username = "USERNAME",
  password = "PASSWORD"
)

out <- list_components(session)
## End(Not run)
```

---

list_datasets   *List datasets in a IUROPA component*

Description

This function lists all of the datasets that are currently available in a particular IUROPA component. You have to specify a IUROPA component. A number of functions in the iuropa package have a dataset argument. The values returned by list_datasets() are those that are valid for this argument.

Usage

```
list_datasets(session, component)
```

Arguments

session	An object of class `iuropa_session` created by `authenticate()`.
component	A string. The name of a IUROPA component. Use `list_components()` to get a list of valid values.

Value

This function returns a string vector containing the names of the datasets in the specified component.

Examples

```
## Not run:
session <- authenticate(
  username = "USERNAME",
  password = "PASSWORD"
)

out <- list_datasets(
  session = session,
  component = "cjeu_database_platform"
)
## End(Not run)
```

---

list_variables   *List variables in a IUROPA dataset*

Description

This function lists all of the variables that are currently available in a particular IUROPA dataset. You have to specify a IUROPA component and a IUROPA dataset in that component.

Usage

```
list_variables(session, component, dataset)
```

Arguments

session	An object of class `iuropa_session` created by `authenticate()`.
component	A string. The name of a IUROPA component. Use `list_components()` to get a list of valid values.
dataset	A string. The name of a IUROPA dataset in the specified IUROPA component. Use `list_datasets()` to get a list of valid values.

Value

This function returns a string vector containing the names of the variables in the specified dataset.

Examples

```
## Not run:
session <- authenticate(
  username = "USERNAME",
  password = "PASSWORD"
)

out <- list_variables(
  session = session,
  component = "cjeu_database_platform",
  dataset = "decisions"
)
## End(Not run)
```

---

ping_api   *Test the API*

Description

This function tests that the IUROPA API is running.

Usage

```
ping_api()
```

Examples

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

---

print_citation   *Print the citation for a IUROPA component*

Description

This function generates the recommended citations for a IUROPA component. You need to provide a component id and a version number. The version number should be the version number for the IUROPA component, not the version number of the R package.

Usage

```
print_citation(component, version)
```

Arguments

component	A string. The name of a IUROPA component. Use list_components() to get a list of valid values.
version	A string. A version number in the format #.#, such as 0.1.

Examples

```
## Not run:
print_citation(
  component = "cjeu_database_platform",
  version = "0.1"
)
## End(Not run)
```

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