Package 'plug'

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; ; !	aption Provides a secure and user-friendly interface to inter- act with the 'Plug' https://plugbytpf.com.br 'API'. It enables developers to store and man age tokens securely using the 'keyring' package, retrieve data from 'API' end- points with the 'httr2' package, and handle large datasets with chunked data fetching. De- signed for simplicity and security, the package facilitates seamless integration with 'Plug' ecosys tem.
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plug_download_base

Download all data from a specific base

Description

This function downloads all data from a specified base using the query SELECT * FROM base_name.

Usage

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```
plug_download_base(
  base_name,
  endpoint = "https://plug.der.pe.gov.br/MadrixApi/executeQuery",
  verbosity = 0
)
```

Arguments

base_name The name of the base from which to download all data.

verbosity The verbosity level of the API request (0 = none, 1 = minimal, 2 = detailed).

Value

A tibble containing all data from the specified base.

Examples

```
## Not run:
data <- plug_download_base(
  base_name = "Contratos_VIEW"
)
## End(Not run)</pre>
```

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plug_execute_query

Execute a custom SQL query on the Plug database

Description

This function executes a user-defined SQL query on the Plug database, with safe query construction using glue_sql.

Usage

```
plug_execute_query(
   sql_template,
   endpoint = "https://plug.der.pe.gov.br/MadrixApi/executeQuery",
   verbosity = 0,
   ...
)
```

Arguments

sql_template A SQL query template with placeholders for variables.

endpoint The endpoint URL for executing queries.

verbosity The verbosity level of the API request (0 = none, 1 = minimal, 2 = detailed).

... Named arguments to replace placeholders in the SQL template.

Value

A tibble containing the query results.

Examples

```
## Not run:
data <- plug_execute_query(sql_template = "SELECT TOP 1 * FROM Contratos_VIEW")
## End(Not run)</pre>
```

plug_get_valid_token Get a valid token for Plug API

Description

This function checks if a valid global token exists for the Plug API. If no valid token is found, it generates a new token using the stored global credentials by sending a properly formatted request. If it fails to retrieve the token (for example, due to missing credentials or network issues), it will not throw an error but will display a message in English ("No valid credentials found.") and return NULL.

plug_list_credentials

Usage

```
plug_get_valid_token(
  validity_time = 3600,
  endpoint = "https://plug.der.pe.gov.br/MadrixApi/authenticate/"
)
```

Arguments

```
validity_time The validity period of the token in seconds. Default is 3600 (1 hour). endpoint The endpoint URL for generating the token.
```

Value

The valid token as a string, or NULL if no valid credentials were found or an error occurred.

Examples

```
## Not run:
token <- plug_get_valid_token(validity_time = 3600)
## End(Not run)</pre>
```

plug_list_credentials List registered credentials for Plug API

Description

This function lists all globally stored credentials (username and password) for the Plug API. If none are found or an error occurs, it displays a message in English ("No credentials found for Plug API.") and returns an empty list.

Usage

```
plug_list_credentials()
```

Value

A named list with username and password fields if credentials are found, or an empty list if no credentials are stored.

Examples

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

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plug_list_tokens

List registered tokens for Plug API

Description

This function lists the stored API token and its expiration time for the Plug API. If none are found or an error occurs, it displays a message in English ("No token found for Plug API.") and returns an empty list.

Usage

```
plug_list_tokens()
```

Value

A named list with token and expiration fields if a token is found, or an empty list if no token is stored.

Examples

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

```
plug_store_credentials
```

Store user credentials securely for Plug API

Description

This function securely stores the global username and password required to authenticate with the Plug application.

Usage

```
plug_store_credentials(username, password)
```

Arguments

username The username for the Plug.
password The password for the Plug.

Value

No return value. The credentials are securely stored.

Examples

plug_store_credentials("myusername", "mypassword")

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