Package 'rockx'

February 12, 2025

Title Easily Import Data from Your 'ODK-X Sync Endpoint'

Version 0.0.2

Description Provides helper functions for authenticating and retrieving data from your 'ODK-X Sync Endpoint'. This is an early release intended for testing and feedback.

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Depends R (>= 4.1.0)

Encoding UTF-8

RoxygenNote 7.3.2

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

Config/testthat/edition 3

VignetteBuilder knitr

Imports dplyr, httr, jsonlite, purrr, tidyr, rlang

NeedsCompilation no

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Repository CRAN

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download_attachments   *Download attachments for table rows*

Description

This function downloads attachments for the specified table rows and saves them in a structured directory. Each row with attachments will have a dedicated folder under the table-specific subdirectory.

Usage

```
download_attachments(
  rows,
  table_meta,
  save_to_directory,
  skip_if_instance_folder_exists = FALSE
)
```

Arguments

rows	A tibble or data frame containing the table rows to download attachments for.
table_meta	List. Metadata for the table, as returned by `get_table_metadata(table_name)`.
save_to_directory	
	String. The parent directory where attachments will be saved. A subdirectory with the name of the table will be created, and each row with attachments will have its own subfolder under this directory.
skip_if_instance_folder_exists	
	Logical. If `TRUE`, rows with an existing instance folder will be skipped to avoid re-downloading attachments. Defaults to `FALSE`.

Value

Invisibly returns `NULL`. Downloads the attachments as a side effect.

---

get_all_rows   *Retrieve all rows from a table*

Description

This function retrieves all rows for a given table from the ODK-X Sync Endpoint and tries to parse known types based on the table's schema definition.

Usage

```
get_all_rows(table_name)
```

Arguments

table_name   String. The name of the table from which to retrieve rows.

Value

A tibble containing all rows.

---

get_credentials   *Retrieve API Credentials*

Description

This function fetches the stored API credentials from environment variables.

Usage

```
get_credentials()
```

Value

A list containing username, password, and server_url.

---

get_tables   *Retrieve Tables from ODK-X Sync Endpoint*

Description

This function retrieves the list of tables from the ODK-X Sync Endpoint by making a paginated GET request to (<server_url>)/odktables/default/tables. It uses BASIC authentication with the credentials stored via rockx::set_username_and_password().

Usage

```
get_tables()
```

Value

A tibble containing the list of found tables.

---

get_table_metadata   *Retrieve table metadata from ODK-X Sync Endpoint*

Description

This function retrieves the table metadata for a given table from the ODK-X Sync Endpoint.

Usage

```
get_table_metadata(table_name)
```

Arguments

table_name   String. The name of the table.

Value

A list containing table metadata.

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set_username_and_password

Set Username, Password, and Server URL for API Authentication

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Description

This function sets the environment variables ROCKX_USERNAME, ROCKX_PASSWORD, and ROCKX_SERVER_URL
for authentication and specifying the ODK-X Sync Endpoint.

Usage

```
set_username_and_password(username, password, server_url)
```

Arguments

username   A character string containing the API username.

password   A character string containing the API password.

server_url   A character string containing the URL of the ODK-X sync endpoint (e.g., "https://my.sync-endpoint.com").

Value

A message confirming that credentials and server URL have been set.

Examples

```
rockx::set_username_and_password("my_user", "my_password", "https://my.sync-endpoint.com")
```

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