

Package: koboAPI (via r-universe)

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Type Package

Title Access kobo API via R

Version 1.0.1

Imports httr, jsonlite, dplyr, tidyr, lubridate, readr, stringr,
tibble, purrr, rlang, magrittr

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Encoding UTF-8

LazyData true

Description koboAPI is a package to access and interact with
[KoBoToolbox](https://www.kobotoolbox.org/)-based APIs.

RoxygenNote 7.1.2

Suggests covr, testthat (>= 3.0.0)

Config/testthat/edition 3

URL <https://elliottmess.github.io/koboAPI/>

Config/pak/sysreqs libicu-dev libssl-dev libx11-dev

Repository https://humanitarian-user-group.r-universe.dev

RemoteUrl https://github.com/ElliottMess/koboAPI

RemoteRef HEAD

RemoteSha ec6b6ef90c8ed1343d42e5e0be655668c617dd14

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assert_api	<i>Assert that the api is valid</i>
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Description

Assert that the api is valid

Usage

```
assert_api(api)
```

Arguments

api (character) api to check

assert_strings	<i>Assert that arguments passed in are length 1 character vectors</i>
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Description

Assert that arguments passed in are length 1 character vectors

Usage

```
assert_strings(...)
```

Arguments

... Character vectors to check

authenticate_api	<i>Authentication for kobo API</i>
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Description

Retrieves token if not provided in 'auth_token', then add a 'Authorization' header via [add_headers](#) to the API call.

Usage

```
authenticate_api(auth_type, auth_key = NULL, api)
```

Arguments

auth_type	(character) Two types of authentication are possible: - 'client': use the 'auth_key' 'user:password' to authenticate to the kobo API - 'token': uses the 'token' provided in 'auth_key' to authenticate
auth_key	(character) Can either be: - A combination of the kobo and password in format: 'user:password' (e.g. 'my_user:my_password') - A kobo API V2 token. See the https://support.kobotoolbox.org/api.html
api	(character) The type of API to be used or URL at which the API can be accessed. Can be either: - 'humanitarian_response': "https://kobo.humanitarianresponse.info" will be used as the base URL (default) - 'kobotoolbox': "https://https://kf.kobotoolbox.org" will be used as the base URL - 'custom': custom URL. Must at least start with "https://"

Details

All authentication is based on token.

Value

'Authorization' header call via [add_headers](#)

get_api_url	<i>Get URL of api</i>
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Description

Get URL of api

Usage

```
get_api_url(api)
```

Arguments

`api` (character) The type of API to be used or URL at which the API can be accessed. Can be either: - 'humanitarian_response': "https://kobo.humanitarianresponse.info" will be used as the base URL (default) - 'kobotoolbox': "https://https://kf.kobotoolbox.org" will be used as the base URL - 'custom': custom URL. Must at least start with "https://"

Value

character vector with the URL of the api

<code>get_asset_id_df</code>	<i>Get a data frame with of assets information for the authenticated account.</i>
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Description

The function provides a high-level access to APIs based on kobotoolbox. It parses the base URL for the 'api' and returns the JSON response in a standard format.

Usage

```
get_asset_id_df(
  api = c("humanitarian_response", "kobotoolbox"),
  auth_type = c("client", "token"),
  auth_key = NULL
)
```

Arguments

`api` (character) The type of API to be used or URL at which the API can be accessed. Can be either: - 'humanitarian_response': "https://kobo.humanitarianresponse.info" will be used as the base URL (default) - 'kobotoolbox': "https://https://kf.kobotoolbox.org" will be used as the base URL - 'custom': custom URL. Must at least start with "https://"

`auth_type` (character) Two types of authentication are possible: - 'client': use the 'auth_key' 'user:password' to authenticate to the kobo API - 'token': uses the 'token' provided in 'auth_key' to authenticate

`auth_key` (character) Can either be: - A combination of the kobo and password in format: 'user:password' (e.g. 'my_user:my_password') - A kobo API V2 token. See the <https://support.kobotoolbox.org/api.html>

Value

A data frame with asset IDs, names, type, and deployment status.

get_asset_id_list	<i>Get a list of asset IDs for the authenticated account.</i>
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Description

The function provides a high-level access to APIs based on kobotoolbox. It parses the base URL for the 'api' and returns the JSON response in a standard format.

Usage

```
get_asset_id_list(
    api = c("humanitarian_response", "kobotoolbox"),
    auth_type = c("client", "token"),
    auth_key = NULL
)
```

Arguments

api	(character) The type of API to be used or URL at which the API can be accessed. Can be either: - 'humanitarian_response': "https://kobo.humanitarianresponse.info" will be used as the base URL (default) - 'kobotoolbox': "https://https://kf.kobotoolbox.org" will be used as the base URL - 'custom': custom URL. Must at least start with "https://"
auth_type	(character) Two types of authentication are possible: - 'client': use the 'auth_key' 'user:password' to authenticate to the kobo API - 'token': uses the 'token' provided in 'auth_key' to authenticate
auth_key	(character) Can either be: - A combination of the kobo and password in format: 'user:password' (e.g. 'my_user:my_password') - A kobo API V2 token. See the https://support.kobotoolbox.org/api.html

Value

A named list of asset IDs

get_data	<i>Download data of an asset</i>
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Description

Download responses from the API for a specific asset

Usage

```
get_data(
  asset_id,
  api = api,
  auth_type = c("client", "token"),
  auth_key = NULL
)
```

Arguments

asset_id (character) The ID of the form to be accessed (as a character string). Must be a KPI-type ID (not api V1 ID). See `download_forms_all` for more details.

api (character) The type of API to be used or URL at which the API can be accessed. Can be either: - 'humanitarian_response': "https://kobo.humanitarianresponse.info" will be used as the base URL (default) - 'kobotoolbox': "https://https://kf.kobotoolbox.org" will be used as the base URL - 'custom': custom URL. Must at least start with "https://"

auth_type (character) Two types of authentication are possible: - 'client': use the 'auth_key' 'user:password' to authenticate to the kobo API - 'token': uses the 'token' provided in 'auth_key' to authenticate

auth_key (character) Can either be: - A combination of the kobo and password in format: 'user:password' (e.g. 'my_user:my_password') - A kobo API V2 token. See the <https://support.kobotoolbox.org/api.html>

Value

A data frame with the responses data for 'asset_id'

get_form	<i>Download form for a specific asset ID</i>
----------	--

Description

Download form for a specific asset ID

Usage

```
get_form(
  asset_id,
  api = c("humanitarian_response", "kobotoolbox"),
  auth_type = c("client", "token"),
  auth_key = NULL
)
```

Arguments

asset_id	(character) The ID of the form to be accessed (as a character string). Must be a KPI-type ID (not api V1 ID). See <code>download_forms_all</code> for more details.
api	(character) The type of API to be used or URL at which the API can be accessed. Can be either: - 'humanitarian_response': "https://kobo.humanitarianresponse.info" will be used as the base URL (default) - 'kobotoolbox': "https://https://kf.kobotoolbox.org" will be used as the base URL - 'custom': custom URL. Must at least start with "https://"
auth_type	(character) Two types of authentication are possible: - 'client': use the 'auth_key' 'user:password' to authenticate to the kobo API - 'token': uses the 'token' provided in 'auth_key' to authenticate
auth_key	(character) Can either be: - A combination of the kobo and password in format: 'user:password' (e.g. 'my_user:my_password') - A kobo API V2 token. See the https://support.kobotoolbox.org/api.html

Value

A list of three data frames that correspond to the structure of a XLSform: - "survey": a data frame with all the questions variables. - "choices" a data frame with all the choices variables. - "settings" a data frame with the basic settings for the form.

kobo_api

Access to kobo-style APIs

Description

The function provides a high-level access to APIs based on kobotoolbox. It parses the base URL for the 'api' and returns the JSON response in a standard format.

Usage

```
kobo_api(
  path,
  api = c("humanitarian_response", "kobotoolbox"),
  auth_type = c("client", "token"),
  auth_key = NULL
)
```

Arguments

path	(character) additional path to based to the base API URL. It should start with a '/'.
api	(character) The type of API to be used or URL at which the API can be accessed. Can be either: - 'humanitarian_response': "https://kobo.humanitarianresponse.info" will be used as the base URL (default) - 'kobotoolbox': "https://https://kf.kobotoolbox.org" will be used as the base URL - 'custom': custom URL. Must at least start with "https://"

auth_type	(character) Two types of authentication are possible: - 'client': use the 'auth_key' 'user:password' to authenticate to the kobo API - 'token': uses the 'token' provided in 'auth_key' to authenticate
auth_key	(character) Can either be: - A combination of the kobo and password in format: 'user:password' (e.g. 'my_user:my_password') - A kobo API V2 token. See the https://support.kobotoolbox.org/api.html

Value

a 'kobo_api' object consisting of a list of: - 'content': parsed content from the request - 'path': - 'response': JSON response to request

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