# Package 'KoboconnectR'

May 23, 2022

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```
get_kobo_token Know your API token or check
```

# Description

'get\_kobo\_token' is a wrapper for kobotoolbox API 'https://"[url]"/token/?format=json'

## Usage

```
get_kobo_token(
   url = "kobo.humanitarianresponse.info",
   uname = "",
   pwd = "",
   encoding = "UTF-8"
)
```

# **Arguments**

url The '[url]' of kobotoolbox. Default is "kobo.humanitarianresponse.info".

uname is username of your kobotoolbox account

pwd is the password of the account

encoding is the encoding to be used. Default is "UTF-8".

## **Details**

The function returns the API token.

#### Value

The function returns the token associated with your id and password in the given url.

kobotools_api	Check	kobotoolbox	API	and	retrieve	overall	info	about	the
	project	s/assets							

# Description

'kobotools\_api' is a wrapper for kobotoolbox API 'https://[kpi-url]/api/v2/assets.json'

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#### Usage

```
kobotools_api(
  url = "kobo.humanitarianresponse.info",
  simplified = TRUE,
  uname = "",
  pwd = "",
  encoding = "UTF-8"
)
```

#### **Arguments**

url The '[kpi-url]' of kobotoolbox. Default is "kobo.humanitarianresponse.info"

simplified A logical value, default is true

uname takes the username pwd takes the password

encoding is the encoding to be used. Default is "UTF-8".

#### **Details**

The function takes two variables. First one is 'url' which is the '[kpi-url]'. For most users it will be "kobo.humanitarianresponse.info" or "kf.kobotoolbox.org". Former is the default. The second parameter is 'simplified' which takes a logical value. If set to true, the function will return selected values from the parsed data and return a data frame. When set to false, a json will be returned with all the details.

#### Value

The function returns the asset details from the API, inform of a data frame or json.

## Description

'kobotools\_kpi\_data' is a wrapper for kobotoolbox API 'https://[URL]/api/v2/assets/assetid/data/'

## Usage

```
kobotools_kpi_data(
  assetid,
  url = "kobo.humanitarianresponse.info",
  uname = "",
  pwd = "",
  encoding = "UTF-8"
)
```

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# Arguments

assetid	is the asset id of the asset for which the data is to be downloaded. The id can be found by running [kobotools_data_list_kc()]
url	The '[kpi-url]' of kobotoolbox. Default is "kobo.humanitarianresponse.info"
uname	is username of your kobotoolbox account
pwd	is the password of the account
encoding	is the encoding to be used. Default is "UTF-8".

#### **Details**

The function takes the url as one of the inputs. And asset id as another. Both are strings. The asset id is found by running the [kobotools\_api()] function.Other parameters are username and password.

#### Value

The function returns the data in json format

kobo\_df\_download

Creates a data frame after creating a 'csv' export and downloading it

## **Description**

'kobo\_df\_download' is a wrapper for kobotoolbox API 'https://[url]/exports/..'

#### Usage

```
kobo_df_download(
  url = "kobo.humanitarianresponse.info",
  uname = "",
 pwd = "",
  assetid = "",
  all = "false",
  lang = "_default",
  hierarchy = "false"
  include_grp = "true",
  grp_sep = "/",
  fsep = ";",
 multi_sel = "both",
 media_url = "true",
  fields = NULL,
  sub_ids = NULL,
  sleep = 2
)
```

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#### **Arguments**

url The '[url]' of kobotoolbox Default is "kobo.humanitarianresponse.info".

uname is username of your kobotoolbox account

pwd is the password of the account

assetid is the id of the asset for which the export is to be created

all takes logical value in string format. Used to specify whether fields from all form

versions will be included in the export. Acceptable values are "true" or "false".

Default value is "false".

lang takes the language. For e.g. "English (en)".

hierarchy takes logical value in string format. Used to specify whether the group hierarchy

will be displayed in labels. Acceptable values are "true" or "false". Default value

is "false".

include\_grp defines whether or not to include groups. Default value is "true".

grp\_sep is the group separator. Default value is "/".

fsep is the separator of the downloaded csv file. In most of the cases, it is ";", which

is the default. However, if you notice that the separator is the downloaded data

is "," or something else, you can change it.

multi\_sel is used to specify the display of multiple\_select-type responses. Valid inputs

include "both", "summary" or "details". Default is "both".

media\_url This will include an additional column for media-type questions ("question\_name\_URL")

with the URL link to the hosted file. Valid inputs are "true" or "false". Default

value is true.

fields is an array of column names to be included in the export (including their group

hierarchy). Valid inputs include: An array containing any string value that matches the XML column name, An empty array which will result in all columns being included, If "fields" is not included in the "export\_settings", all columns

will be included in the export

sub\_ids is an array of submission ids that will filter exported submissions to only the

specified array of ids. Valid inputs include an array containing integer values or

an empty array.

sleep is the sleep time between API actions. For example, it takes time to download an

export. But R does not wait for the download to finish before going to next step. Hence the need to provide a break between consecutive API actions. Default

value is 2 (seconds).

## Details

The function creates an export of survey data in 'csv'. If successful, it attempts to download the data and and return a data frame.

#### Value

The function returns a data frame of data downloaded from 'Kobotoolbox'.

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kobo\_exports

See list of exports created

# Description

'kobo\_exports' is a wrapper for kobotoolbox API 'https://[url]/exports/'

# Usage

```
kobo_exports(
   url = "kobo.humanitarianresponse.info",
   uname = "",
   pwd = "",
   encoding = "UTF-8"
)
```

# Arguments

url The '[url]' of kobotoolbox. Default is "kobo.humanitarianresponse.info".

uname is username of your kobotoolbox account

pwd is the password of the account

encoding is the encoding to be used. Default is "UTF-8".

## **Details**

The function returns the export views.

## Value

The function returns a list of exports available for the account id and password entered.

## **Description**

'kobo\_export\_create' is a wrapper for kobotoolbox API 'https://[url]/exports/..'

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#### Usage

```
kobo_export_create(
  url = "kobo.humanitarianresponse.info",
  uname = "",
  pwd = "",
  assetid = "".
  type = "csv",
  all = "false"
  lang = "_default",
  hierarchy = "false"
  include_grp = "true"
  grp\_sep = "/",
 multi_sel = "both",
  fields = NULL,
 media_url = "true",
  sub_ids = NULL,
  qry = NULL,
  flatten = "true",
  sleep = 2
)
```

#### **Arguments**

url The '[url]' of kobotoolbox Default is "kobo.humanitarianresponse.info".

uname is username of your kobotoolbox account

pwd is the password of the account

assetid is the id of the asset for which the export is to be created

type specifies the export format. Valid formats include "csv", "xls", "spss\_labels" and

"geoison"

all takes logical value in string format. Used to specify whether fields from all form

versions will be included in the export. Acceptable values are "true" or "false".

Default value is "false".

lang takes the language. For e.g. "English (en)".

hierarchy takes logical value in string format. Used to specify whether the group hierarchy

will be displayed in labels. Acceptable values are "true" or "false". Default value

is "false".

include\_grp defines whether or not to include groups. Default value is "true".

grp\_sep is the group separator. Default value is "/".

multi\_sel is used to specify the display of multiple\_select-type responses. Valid inputs

include "both", "summary" or "details". Default is "both".

fields is an array of column names to be included in the export (including their group

hierarchy). Valid inputs include: An array containing any string value that matches the XML column name, An empty array which will result in all columns being included, If "fields" is not included in the "export\_settings", all columns

will be included in the export

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media_url	This will include an additional column for media-type questions ("question_name_URL") with the URL link to the hosted file. Valid inputs are "true" or "false". Default value is true.
sub_ids	is an array of submission ids that will filter exported submissions to only the specified array of ids. Valid inputs include an array containing integer values or an empty array.#'
qry	is a JSON object containing a Mongo filter query for filtering exported submissions. Valid inputs include a JSON object containing a valid Mongo query or An empty JSON object (no filtering)
flatten	is a is a boolean (in form of string) value and only relevant when exporting to "geojson" format. Valid inputs are "true" and "false"
sleep	is the sleep time between API actions. For example, it takes time to download an export. But R does not wait for the download to finish before going to next step. Hence the need to provide a break between consecutive API actions. Default value is 2 (seconds).

# **Details**

The function creates an export of survey data. If successful, returns the URL of the data that can be directly downloaded/read/imported in R.

# Value

The function creates an export, prints and returns the URL of the export created

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