Package 'KoboconnectR'

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```
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```

2 get_kobo_token

Contents

get_kobo_token	2
kobotools_api	3
kobotools_kpi_data	4
kobo_df_download	5
kobo_exports	6
kobo_export_create	7
kobo_media_downloader	9
kobo_xls_dl	10
	12
	kobotools_api kobotools_kpi_data kobo_df_download kobo_exports kobo_export_create kobo_media_downloader kobo_xls_dl

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 = "eu.kobotoolbox.org",
  uname = "",
  pwd = "",
  encoding = "UTF-8"
)
```

Arguments

url The '[url]' of kobotoolbox. Default is "eu.kobotoolbox.org".
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 3

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

Description

'kobotools_api' is a wrapper for kobotoolbox API 'https://[kpi-url]/api/v2/assets/'

Usage

```
kobotools_api(
   url = "eu.kobotoolbox.org",
   simplified = TRUE,
   uname = "",
   pwd = "",
   encoding = "UTF-8",
   qry = ""
)
```

Arguments

url	The '[kpi-url]' of kobotoolbox. Default is "eu.kobotoolbox.org"
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".
qry	to add queries

Details

The function takes two variables. First one is 'url' which is the '[kpi-url]'. For most users it will be "eu.kobotoolbox.org" 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.

kobotools_kpi_data

kobotools_kpi_data

Extract data from kobotoolbox

Description

'kobotools_kpi_data' is a wrapper for kobotoolbox API 'https://[URL]/api/v2/assets/[assetid]/data/'

Usage

```
kobotools_kpi_data(
  assetid,
  url = "eu.kobotoolbox.org",
  uname = "",
  pwd = "",
  encoding = "UTF-8",
  format = "json"
)
```

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 "eu.kobotoolbox.org"

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".

format lets you define the format of output for e.g. json or xml

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 5

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

Usage

```
kobo_df_download(
  url = "eu.kobotoolbox.org",
  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
)
```

Arguments

url	The 'furll'	of kobotoolbox Default is	"au kohotoolhov org"
uri	The jum	of Kodoloofdox Default is	s eu.kodolooldox.org .

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)". For "XML Values as headers", use

'_xml'.

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 "/".

6 kobo_exports

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. Finally, the function attempts to delete the export.

Value

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

kobo_exports	See list of exports created	

Description

'kobo_exports' is a wrapper for kobotoolbox API 'https://[kpi-url]/api/v2/assets/[assetid]/exports/'

Usage

```
kobo_exports(
  url = "eu.kobotoolbox.org",
  uname = "",
  pwd = "",
  encoding = "UTF-8",
  assetid = "",
  simplified = FALSE
)
```

kobo_export_create 7

Arguments

url The '[url]' of kobotoolbox. Default is "eu.kobotoolbox.org".

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"

assetid the asset id

simplified if TRUE, then return a simple data frame with selected data, if FALSE returns

the full list.

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://[kpi-URL]/api/v2/assets/[asset-uid]/exports/'

Usage

```
kobo_export_create(
  url = "eu.kobotoolbox.org",
  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 = 3
)
```

8 kobo_export_create

Arguments

url The '[url]' of kobotoolbox Default is "eu.kobotoolbox.org".

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

"geojson"

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)". For "XML Values as headers", use

' xml'.

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

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 submis-

sions. 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

Description

'kobo_media_downloader' downloads media from data downloaded using 'kobo_df_download'. Loops through media columns and downloads files individually.

Usage

```
kobo_media_downloader(
   url = "eu.kobotoolbox.org",
   uname,
   pwd,
   assetid,
   fsep = ";",
   sleep = 2,
   identifier = "URL",
   timeoutval = 300,
   destfolder = "media"
)
```

Arguments

uri	The [uri] of kodoloofdox Default is eu.kodoloofdox.org.
uname	is username of your kobotoolbox account
nwd	is the password of the account

pwd is the password of the account

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

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

is the default. However,

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).

identifier is the key using with the columns with URL is identified. Default value is "URL"

because in most of the cases, the columns containing the URL values end with "URL". Please note that any other column name with similar value may cause

error.

timeoutval is the timeout value in seconds to download the media files. Default is 300

seconds.

destfolder is the folder where the media is to be stored.

10 kobo_xls_dl

Details

The function creates an export of survey data in 'csv'. If successful, it attempts to download the data and and returns a data frame. From that data frame, the function extracts the URLs of media and attempts to download them.

Value

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

kobo_xls_dl

Downloads data (xls type) from Kobotoolbox

Description

'kobo_xls_dl' is a wrapper for kobotoolbox API that attemps to download data in excel compatible formal.

Usage

```
kobo_xls_dl(
  url = "eu.kobotoolbox.org",
  uname = "",
 pwd = "",
 assetid = ""
  all = "false",
  lang = "_default",
  hierarchy = "false",
  include_grp = "true",
  grp\_sep = "/",
 multi_sel = "both",
 media_url = "true",
  fields = NULL,
  sub_ids = NULL,
  sleep = 2
)
```

Arguments

url The '[url]' of kobotoolbox Default is "eu.kobotoolbox.org".
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".

kobo_xls_dl

lang takes the language. For e.g. "English (en)". For "XML Values as headers", use '_xml'. takes logical value in string format. Used to specify whether the group hierarchy hierarchy will be displayed in labels. Acceptable values are "true" or "false". Default value is "false". defines whether or not to include groups. Default value is "true". include_grp is the group separator. Default value is "/". grp_sep 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.

Details

The function creates an export of survey data in 'xls'. If successful, it attempts to download the data and and return a data frame (reading using 'readxl::read_excel').

Hence the need to provide a break between consecutive API actions. Default

Value

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

value is 2 (seconds).

Index

```
get_kobo_token, 2
kobo_df_download, 5
kobo_export_create, 7
kobo_exports, 6
kobo_media_downloader, 9
kobo_xls_dl, 10
kobotools_api, 3
kobotools_kpi_data, 4
```