Package 'KoboconnectR'

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get_kobo_token

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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.

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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'

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.

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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"
)
```

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/..'

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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
)
```

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)". 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 "/".

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.

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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'.

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".

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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/..'

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 "geojson"

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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". defines whether or not to include groups. Default value is "true". include_grp grp_sep is the group separator. Default value is "/". is used to specify the display of multiple_select-type responses. Valid inputs multi_sel 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 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" is the sleep time between API actions. For example, it takes time to download an sleep 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 = "kobo.humanitarianresponse.info",
   uname,
   pwd,
   assetid,
   fsep = ";",
   sleep = 2,
   identifier = "URL",
   timeoutval = 300,
   destfolder = "media"
)
```

Arguments

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

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.

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.

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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 'https://[url]/exports/..'

Usage

```
kobo_xls_dl(
    url = "kobo.humanitarianresponse.info",
    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 Th	'[ur]	l' of kobotoolbox Defa	ault is "kobo	humanitarianresp.	onse.info".
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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".

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grp_sep is the group separator. Default value is "/". is used to specify the display of multiple_select-type responses. Valid inputs multi_sel 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 'xls'. If successful, it attempts to download the data and and return a data frame (reading using 'readxl::read_excel').

Value

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

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