

Package: okapi (via r-universe)

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Type Package

Title Open Data Kit (ODK)-based Computer-assisted Personal Interviewing (CAPI) Tools

Version 0.1.2.9000

Description Data collection using computer-assisted personal interviewing or CAPI tools is now the standard approach for conducting surveys and studies. A wide range of CAPI systems are currently being used. The ability to interface with these systems helps in the overall data process. This package provides interface functions to CAPI systems based on the Open Data Kit or ODK technology.

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Imports http, tibble, jsonlite, askpass

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BugReports <https://github.com/rapidsurveys/okapi/issues>

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kobo_auth_password	<i>Basic authentication to KoBo Toolbox with a username and password</i>
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Description

Basic authentication to KoBo Toolbox with a username and password

Usage

```
kobo_auth_password(username, password = askpass::askpass())
```

Arguments

- username KoBo Toolbox username.
- password KoBo Toolbox password. Default is an interactive input of password.

Value

System environment variables for KOBO_KF_USERNAME and KOBO_KF_PASSWORD

Examples

```
kobo_auth_password(username = Sys.getenv("KOBO_USERNAME"),
  password = Sys.getenv("KOBO_PASSWORD"))
```

kobo_auth_token	<i>Basic authentication to KoBo Toolbox with API authentication token</i>
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Description

Basic authentication to KoBo Toolbox with API authentication token

Usage

```
kobo_auth_token(token)
```

Arguments

token	KoBo Toolbox API authentication token.
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Value

System environment variables for KOBO_KF_TOKEN

Examples

```
kobo_auth_token(token = Sys.getenv("KOBO_TOKEN"))
```

kobo_get_data	<i>Retrieve specific dataset by form ID from specific user</i>
---------------	--

Description

Retrieve specific dataset by form ID from specific user

Usage

```
kobo_get_data(
  base_url = "https://kf.kobotoolbox.org",
  auth_mode = "token",
  asset_id
)
```

Arguments

base_url	KoBo Toolbox URL. Default is https://kf.kobotoolbox.org .
auth_mode	Password or token? Default is token.
asset_id	Unique asset identifier.

Value

A tibble of datasets available to specific user.

Examples

```
kobo_auth_token(token = Sys.getenv("KOBO_TOKEN"))
kobo_get_data(asset_id = "aKJTpKiVUcPYim2epKkPvW")
```

kobo_list_assets	<i>Retrieve list of assets available to specific user</i>
------------------	---

Description

Retrieve list of assets available to specific user

Usage

```
kobo_list_assets(base_url = "https://kf.kobotoolbox.org", auth_mode = "token")
```

Arguments

base_url	KoBo Toolbox URL. Default is https://kf.kobotoolbox.org .
auth_mode	Password or token? Default is token.

Value

A list of assets available to specific user.

Examples

```
kobo_auth_token(token = Sys.getenv("KOBO_TOKEN"))
kobo_list_assets()
```

ona_auth_password	<i>Basic authentication to ONA with a username and password</i>
-------------------	---

Description

Basic authentication to ONA with a username and password

Usage

```
ona_auth_password(username, password = askpass::askpass())
```

Arguments

username	ONA username.
password	ONA password. Default is an interactive input of password.

Value

System environment variables for ONA_USERNAME and ONA_PASSWORD

Examples

```
ona_auth_password(username = Sys.getenv("ONA_USERNAME"),  
                  password = Sys.getenv("ONA_PASSWORD"))
```

ona_auth_token	<i>Basic authentication to ONA with API authentication token</i>
----------------	--

Description

Basic authentication to ONA with API authentication token

Usage

```
ona_auth_token(token)
```

Arguments

token	ONA API authentication token.
-------	-------------------------------

Value

System environment variables for ONA_TOKEN

Examples

```
ona_auth_token(token = Sys.getenv("ONA_TOKEN"))
```

ona_configure	<i>Configure HTTP headers</i>
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Description

Configure HTTP headers

Usage

```
ona_configure(auth_mode = c("token", "password"))
```

Arguments

auth_mode	Password or token? Default is token.
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Value

An object of class request for HTTP requests

ona_data_get	<i>Retrieve specific dataset by form ID from specific user</i>
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Description

Retrieve specific dataset by form ID from specific user

Usage

```
ona_data_get(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password"),  
  form_id  
)
```

Arguments

base_url	ONA URL. Default is https://api.ona.io .
auth_mode	Password or token? Default is token.
form_id	Form identifier.

Value

A tibble of retrieved dataset.

Examples

```
ona_data_get(form_id = 276175)
```

ona_data_list	<i>Retrieve list of datasets available to specific user</i>
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Description

Retrieve list of datasets available to specific user

Usage

```
ona_data_list(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password")  
)
```

Arguments

base_url	ONA URL. Default is https://api.ona.io .
auth_mode	Password or token? Default is token.

Value

A tibble of datasets available to specific user.

Examples

```
ona_data_list()
```

ona_form_delete	<i>Delete published form</i>
-----------------	------------------------------

Description

Delete published form

Usage

```
ona_form_delete(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password"),  
  form_id = NULL  
)
```

Arguments

base_url ONA URL. Default is <https://api.ona.io>.
 auth_mode Password or token? Default is token.
 form_id Form identifier.

Value

Delete specified form from ONA.

Examples

```
form_list <- ona_form_list()
form_id <- form_list[["formid"]][form_list[["title"]] == "Appearance Widgets"]
ona_form_delete(form_id = form_id)
```

ona_form_list	<i>List published forms</i>
---------------	-----------------------------

Description

List published forms

Usage

```
ona_form_list(
  base_url = "https://api.ona.io",
  auth_mode = c("token", "password")
)
```

Arguments

base_url ONA URL. Default is <https://api.ona.io>.
 auth_mode Password or token? Default is token.

Value

A tibble of published forms.

Examples

```
ona_form_list()
```

ona_form_publish	<i>Publish XLSForm</i>
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Description

Publish XLSForm

Usage

```
ona_form_publish(
  base_url = "https://api.ona.io",
  auth_mode = c("token", "password"),
  xls_file = NULL,
  xls_url = NULL,
  dropbox_xls_url = NULL,
  project_id = NULL,
  public = FALSE
)
```

Arguments

base_url	ONA URL. Default is https://api.ona.io .
auth_mode	Password or token? Default is token.
xls_file	Path to the XLSForm file.
xls_url	URL to the XLSForm file.
dropbox_xls_url	Dropbox URL to the XLSForm file.
project_id	Project identifier of project to publish XLSForm to. If NULL (default), XLSForm is published to the an account's default project.
public	Logical. Should the form be public? Default to FALSE.

Value

A published form on ONA.

Examples

```
project_list <- ona_project_list()
if ("test" %in% project_list$name) {
  project_id = project_list$id[project_list$name == "test"]
  ona_project_delete(project_id = project_id)
}
ona_project_register(name = "test")
project_list <- ona_project_list()
project_id = project_list$id[project_list$name == "test"]
ona_form_publish(
```

```

    xls_file = system.file(
      "appearance_widgets.xlsx", package = "okapi"
    ),
    project_id = project_id
  )

```

ona_org_delete	<i>Delete registered organisation</i>
----------------	---------------------------------------

Description

Delete registered organisation

Usage

```

ona_org_delete(
  base_url = "https://api.ona.io",
  auth_mode = c("token", "password"),
  org
)

```

Arguments

base_url	ONA URL. Default is https://api.ona.io .
auth_mode	Password or token? Default is token.
org	Organisation short name or username.

Value

Delete specified organisation from specific ONA account.

Examples

```

org_list <- ona_org_list()
org_name <- org_list[["org"]]
ona_org_delete(org = org_name)

```

ona_org_list	<i>List organisations</i>
--------------	---------------------------

Description

List organisations

Usage

```
ona_org_list(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password")  
)
```

Arguments

base_url	ONA URL. Default is https://api.ona.io .
auth_mode	Password or token? Default is token.

Value

A tibble of organisations.

Examples

```
ona_org_list()
```

ona_org_register	<i>Register an organisation</i>
------------------	---------------------------------

Description

Register an organisation

Usage

```
ona_org_register(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password"),  
  org,  
  name = NULL  
)
```

Arguments

base_url	ONA URL. Default is https://api.ona.io .
auth_mode	Password or token? Default is token.
org	Organisation short name or username.
name	Organisation full name. If NULL (default), short name is used.

Value

Invisible. Organisation registered and created in ONA account

Examples

```
ona_org_register(org = "okapi_organisation")
```

ona_project_delete	<i>Delete registered project</i>
--------------------	----------------------------------

Description

Delete registered project

Usage

```
ona_project_delete(
  base_url = "https://api.ona.io",
  auth_mode = c("token", "password"),
  project_id = NULL
)
```

Arguments

base_url	ONA URL. Default is https://api.ona.io .
auth_mode	Password or token? Default is token.
project_id	Project identifier.

Value

Delete specified project from specific ONA account.

Examples

```
project_list <- ona_project_list()
project_id <- project_list[["projectid"]]
ona_project_delete(project_id = project_id)
```

ona_project_info	<i>Get project info</i>
------------------	-------------------------

Description

Get project info

Usage

```
ona_project_info(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password"),  
  project_id = NULL  
)
```

Arguments

base_url	ONA URL. Default is https://api.ona.io .
auth_mode	Password or token? Default is token.
project_id	Project identifier.

Value

A tibble of projects.

Examples

```
ona_project_info(project_id = 12345)
```

ona_project_list	<i>List projects</i>
------------------	----------------------

Description

List projects

Usage

```
ona_project_list(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password")  
)
```

Arguments

base_url ONA URL. Default is <https://api.ona.io>.
 auth_mode Password or token? Default is token.

Value

A tibble of projects.

Examples

```
ona_project_list()
```

ona_project_register	<i>Register a project</i>
----------------------	---------------------------

Description

Register a project

Usage

```
ona_project_register(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password"),  
  owner = Sys.getenv("ONA_USERNAME"),  
  name = NULL,  
  public = TRUE  
)
```

Arguments

base_url ONA URL. Default is <https://api.ona.io>.
 auth_mode Password or token? Default is token.
 owner Username or organisation name creating the project. Default to username of currently authenticated account (via Sys.getenv(ONA_USERNAME)). If organisation name, should be an organisation to which currently authenticated account is the owner or admin user.
 name Name of the project. If NULL (default), project is given a default name similar to that created by ONA for forms published without a project
 public Logical. Should the project be public? Default to TRUE.

Value

Invisible. Project registered and created in ONA account

Examples

```
ona_project_register()
```

ona_project_share	<i>Share projects with user(s)</i>
-------------------	------------------------------------

Description

Share projects with user(s)

Usage

```
ona_project_share(
  base_url = "https://api.ona.io",
  auth_mode = c("token", "password"),
  project_id = NULL,
  username = NULL,
  role = c("readonly", "dataentry", "editor", "manager"),
  email = NULL
)
```

Arguments

base_url	ONA URL. Default is https://api.ona.io .
auth_mode	Password or token? Default is token.
project_id	Project identifier.
username	A character value or vector of username/s of user/s to share a form with.
role	A character value for the role the user/s will have on the project. This can be <i>readonly</i> , <i>dataentry</i> , <i>editor</i> , or <i>manager</i> .
email	Email message to send to user/s to whom project has been shared with. If NULL (default), user/s will not be notified.

Value

Invisible. Project shared with specified users with specified roles. A tibble of project information.

Examples

```
ona_project_share(
  project_id = 12345,
  username = "validtrial",
  role = "readonly"
)
```

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