

Package ‘rgoogleclassroom’

May 9, 2026

Title API Wrapper for Google Classroom and Google Forms

Version 1.0.0

Description This is a Google Forms and Google Classroom API Wrapper for R for managing Google Classrooms from R. The documentation for these APIs is here <<https://developers.google.com/forms/api/guides>> .

License GPL-3

URL <https://github.com/datatrail-jhu/rgoogleclassroom>

BugReports <https://github.com/datatrail-jhu/rgoogleclassroom/issues>

Imports httr, jsonlite, purrr, R6, assertthat, lubridate, magrittr, openssl, stringr, dplyr, readr, rprojroot, tibble, tidy

Encoding UTF-8

RoxygenNote 7.3.2

Suggests testthat (>= 3.0.0), knitr

Config/testthat/edition 3

VignetteBuilder knitr

NeedsCompilation no

Author Candace Savonen [cre, aut]

Maintainer Candace Savonen <csavonen@fredhutch.org>

Depends R (>= 3.5.0)

Repository CRAN

Date/Publication 2025-03-25 20:30:02 UTC

Contents

archive_course	3
authorize	3
auth_from_secret	4
bad_quiz_path	4
check_all_questions	5

check_question	6
check_quiz	7
check_quizzes	8
check_quiz_attributes	9
check_quiz_dir	9
check_quiz_question_attributes	11
commit_to_form	11
copy_form	12
create_course	12
create_coursework	13
create_form	14
create_material	15
create_multiple_choice_question	16
create_quiz	17
create_text_question	18
create_topic	19
date_handler	19
delete_course	20
delete_coursework	20
extract_meta	21
get_coursework_list	22
get_coursework_properties	22
get_course_list	23
get_course_properties	23
get_drive_file_list	24
get_endpoint	24
get_form_properties	25
get_form_responses	25
get_linked_quizzes_list	26
get_materials_list	26
get_materials_properties	27
get_owner_id	27
get_topic_list	28
get_topic_properties	28
good_quiz_path	29
is.google_forms_request	29
make_form_quiz	29
markdown_quiz_path	30
ottr_quiz_to_google	30
parse_quiz	32
parse_quiz_df	33
parse_q_tag	34
publish_coursework	34
time_handler	35
translate_questions_api	35
update_form_settings	36

archive_course	<i>Archive a Google Classroom Course</i>
----------------	--

Description

Archive a Google Classroom Course

Usage

```
archive_course(course_id)
```

Arguments

course_id	ID of the archived course you wish to delete
-----------	--

authorize	<i>Authorize R package to access Google classroom API</i>
-----------	---

Description

This is a function to authorize the R package to access the Googleclassroom API interactively.

Usage

```
authorize(token = NULL, cache = FALSE, ...)
```

Arguments

token	an output from <code>oauth2.0_token</code> to set as the authentication token.
cache	Should the token be cached as an <code>.httr-oauth</code> file?
...	additional arguments to send to <code>oauth2.0_token</code>

Value

OAuth token saved to the environment so the package can use the users' Google data

Examples

```
## Not run:  
  
authorize()  
  
## End(Not run)
```

auth_from_secret	<i>Use secrets to Authorize R package to access Google classroom API</i>
------------------	--

Description

This is a function to authorize the R package to access the Googleclassroom API. If no client.id and client.secret is provided, the package would provide predefined values.

Usage

```
auth_from_secret(access_token, refresh_token)
```

Arguments

access_token	Access token can be obtained from running authorize interactively: token <- authorize(); token\$credentials\$access_token
refresh_token	Refresh token can be obtained from running authorize interactively: token <- authorize(); token\$credentials\$refresh_token

Value

OAuth token saved to the environment so the package can use the users' Google data

Examples

```
## Not run:  
  
token <- authorize()  
  
auth_from_secret(  
  token$credentials$access_token,  
  token$credentials$refresh_token  
)  
  
## End(Not run)
```

bad_quiz_path	<i>Path to bad example quiz</i>
---------------	---------------------------------

Description

Path to bad example quiz

Usage

```
bad_quiz_path()
```

Value

The file path to an example bad quiz included in the package that will fail the quiz checks.

Examples

```
quiz_path <- bad_quiz_path()
```

check_all_questions *Check all quiz questions*

Description

Takes output from [parse_quiz] and runs checks on each question in a quiz by calling [check_question] for each question. First splits questions into their own data frame. Returns a list of messages/warnings about each question's set up.

Usage

```
check_all_questions(  
  quiz_specs,  
  quiz_name = NA,  
  verbose = TRUE,  
  ignore_coursera = TRUE  
)
```

Arguments

quiz_specs	quiz_specs which is output from [parse_quiz].
quiz_name	The name of the quiz being checked.
verbose	Whether progress messages should be given.
ignore_coursera	Coursera doesn't like ';' or ':' in the quizzes. Do not convert quizzes to coursera and ignore ! and : in question prompts that would not be allowed in Leanpub quizzes when converted to a Coursera quiz. Default is to ignore Coursera compatibility.

Value

A list of the output from [check_question] with messages/warnings regarding each question and each check.

Examples

```
## Not run:

# Using good quiz md example

quiz_path <- good_quiz_path()
good_quiz <- readLines(quiz_path)
good_quiz_specs <- parse_quiz(good_quiz)
good_quiz_checks <- check_all_questions(good_quiz_specs)

# Using bad quiz md example

bad_quiz <- readLines(bad_quiz_path())
bad_quiz_specs <- parse_quiz(bad_quiz)
bad_quiz_checks <- check_all_questions(bad_quiz_specs)

## End(Not run)
```

 check_question

Check Quiz Question Set Up

Description

Check quiz question set up to see if it is compliant with Leanpub and Coursera needs. Based off of [Markua guide](<https://leanpub.com/markua/read#leanpub-auto-quizzes-and-exercises>). Is called by [check_all_questions] and run for each question.

Usage

```
check_question(
  question_df,
  quiz_name = NA,
  verbose = TRUE,
  ignore_coursera = TRUE
)
```

Arguments

question_df	Which is an individual question's data frame after being parse from
quiz_name	The name of the quiz the question is from
verbose	Whether progress messages should be given
ignore_coursera	Coursera doesn't like `;` or `:` in the quizzes. Do not convert quizzes to coursera and ignore `!` and `:` in question prompts that would not be allowed in Leanpub quizzes when converted to a Coursera quiz. Default is to ignore Coursera compatibility

Value

A list of messages/warnings regarding each check for the given question.

Examples

```
## Not run:

# Use readLines to read in a quiz
quiz_path <- good_quiz_path()
quiz_lines <- readLines(quiz_path)

# Use group_split to get the questions
questions_df <- parse_quiz(quiz_lines)$data %>%
  dplyr::group_split(question)

good_quiz_checks <- check_question(questions_df[[2]])

## End(Not run)
```

 check_quiz

Check Quiz

Description

For a file path to a quiz, check whether it is properly formatted for Leanpub.

Usage

```
check_quiz(quiz_path, verbose = TRUE, ignore_coursera = TRUE)
```

Arguments

quiz_path	A file path to a quiz markdown file
verbose	print diagnostic messages? TRUE/FALSE
ignore_coursera	Coursera doesn't like `;` or `:` in the quizzes. Do not convert quizzes to coursera and ignore ! and : in question prompts that would not be allowed in Leanpub quizzes when converted to a Coursera quiz. Default is to ignore Coursera compatibility

Value

A list of checks. "good" means the check passed. Failed checks will report where it failed.

Examples

```
## Not run:

# Take a look at a good quiz's checks:
quiz_path <- good_quiz_path()
good_checks <- check_quiz(quiz_path)

# Take a look at a failed quiz's checks:
quiz_path <- bad_quiz_path()
failed_checks <- check_quiz(quiz_path)

## End(Not run)
```

check_quizzes	<i>Check all quizzes in a directory</i>
---------------	---

Description

Check the formatting of all quizzes in a given directory.

Usage

```
check_quizzes(
  path = ".",
  quiz_dir = "quizzes",
  write_report = TRUE,
  verbose = TRUE,
  ignore_coursera = TRUE
)
```

Arguments

path	path to the top of course repository (looks for .github folder)
quiz_dir	A path to a directory full of quizzes that should all be checked with [check_all_quizzes].
write_report	TRUE/FALSE save warning report to a CSV file?
verbose	print diagnostic messages
ignore_coursera	Coursera doesn't like `;` or `:` in the quizzes. Do not convert quizzes to coursera and ignore `!` and `:` in question prompts that would not be allowed in Leanpub quizzes when converted to a Coursera quiz. Default is to ignore Coursera compatibility

Value

A list checks performed on each quiz

Examples

```
## Not run:

## Make a temporary quiz directory
quiz_dir <- dirname(good_quiz_path())

## Now check the quizzes in that directory
all_quiz_results <- check_quizzes(quiz_dir = quiz_dir)

## End(Not run)
```

check_quiz_attributes *Check Quiz Attributes*

Description

Check Quiz Attributes

Usage

```
check_quiz_attributes(quiz_specs, quiz_name = NULL, verbose = TRUE)
```

Arguments

quiz_specs	The output from [parse_quiz].
quiz_name	A character string indicating the name of the quiz being checked.
verbose	Would you like progress messages? TRUE/FALSE

Value

A logical

check_quiz_dir *Check all quizzes' formatting for Leanpub*

Description

Check all quizzes' formatting for Leanpub

Usage

```
check_quiz_dir(
  path = ".",
  quiz_dir = "quizzes",
  output_dir = "check_reports",
  resources_dir = "resources",
  report_all = FALSE
)
```

Arguments

path	path to the bookdown or quarto course repository, must have a <code>‘.github‘</code> folder which will be used to establish the top of the repo.
quiz_dir	A relative file path to the folder (existing or not) that contains the quizzes in Leanpub format. Default is "quizzes".
output_dir	A relative file path to the folder (existing or not) that the output check file should be saved to. Default is "check_reports"
resources_dir	A relative file path to the folder (existing or not) that the ignore_urls.txt file and exclude_files.txt will be found. Default is "resources". If no ignore_urls.txt file and exclude_files.txt files are found, we will download one.
report_all	Should all URLs that were tested be returned? Default is FALSE meaning only broken URLs will be reported in the url_checks.tsv file.

Value

A file will be saved that lists the broken URLs will be saved to the specified output_dir.

Examples

```
## Not run:

rmd_dir <- setup_ottr_template(dir = ".", type = "rmd", render = FALSE)

check_quiz_dir(rmd_dir)

# If there are broken URLs they will be printed in a list at 'question_error_report.tsv'

qmd_dir <- setup_ottr_template(dir = ".", type = "quarto", render = FALSE)

check_quiz_dir(qmd_dir)

## End(Not run)
```

check_quiz_question_attributes
Check a question's attributes

Description

This is ran automatically by [check_all_questions] for all questions. It checks that the attributes specified are accepted ones by Leanpub.

Usage

```
check_quiz_question_attributes(question_df, quiz_name = NULL, verbose = TRUE)
```

Arguments

question_df	a data.frame obtained from [parse_quiz_df] and dplyr::group_split(question).
quiz_name	inherited from parse
verbose	print diagnostic messages

Value

Will return a warning for any quiz question attributes used that are not supported.

commit_to_form *Commit changes to a Google form*

Description

Commit changes to a Google form

Usage

```
commit_to_form(form_id, google_forms_request, quiet = FALSE)
```

Arguments

form_id	The id of the google form to be updated
google_forms_request	The google slide request to be applied to the slides
quiet	TRUE/FALSE you'd like a progress message?

copy_form	<i>Make a copy of an existing form</i>
-----------	--

Description

Make a copy of an existing form

Usage

```
copy_form(form_id, new_name = NULL, quiet = FALSE)
```

Arguments

form_id	The form_id that is desired to be copied.
new_name	What should the new file name for the copied file be?
quiet	TRUE or FALSE whether messages should be printed out.

Examples

```
## Not run:  
#'  
# Make the form  
form_info <- copy_form(form_id = "https://docs.google.com/forms/d/someformidhere/edit",  
                        new_name = "copied form")  
  
## End(Not run)
```

create_course	<i>Create a new course</i>
---------------	----------------------------

Description

Create a new course

Usage

```
create_course(owner_id = get_owner_id())$id, name = NULL)
```

Arguments

owner_id	The ownerId to use to create the course. Will attempt to retrieve ownerId based on credentials with get_owner_id()
name	Name of the new course. Required.

Examples

```
## Not run:

owner_id <- get_owner_id()
course_df <- create_course(owner_id, name = "New course")

## End(Not run)
```

create_coursework *Create a new coursework*

Description

Create a new coursework

Usage

```
create_coursework(
  course_id = NULL,
  topic_id = NULL,
  publish = FALSE,
  title = NULL,
  work_type = "ASSIGNMENT",
  due_date = NULL,
  description = NULL,
  link = NULL
)
```

Arguments

course_id	Course id of where to make the new coursework. Can find from end of URL e.g. "https://classroom.google.com/c/COURSE_ID_IS_HERE"
topic_id	topic ID to be looked for.
publish	TRUE/FALSE, automatically publish the coursework upon posting? Default is to be posted as a draft (students will not see it until you click Post).
title	Name of new coursework. Required.
work_type	Currently only supported work type is ASSIGNMENT.
due_date	Required Due date for new coursework, must be given in year-month-day format.
description	Description of new coursework. Is a string
link	A url to an associated resource for the coursework being made.

Examples

```
## Not run:
topic_id <- get_topic_list("604042323237")$topic$topicId[1]
course_id <- get_course_list()$courses$id[1]

create_coursework(course_id, topic_id,
  title = "a new quiz", due_date = "2025-12-1",
  description = "blah blah", link = "https://www.datatrail.org/"
)

## End(Not run)
```

create_form

Create a new form

Description

Create a new form

Usage

```
create_form(title = NULL, document_title = "new_form", description = "")
```

Arguments

title The title for the new form. Required as a string.

document_title The title for the form file that will be stored in Google Drive

description The description for the new form as a string.

Examples

```
## Not run:
#'
# Make the form
form_info <- create_form(
  title = "A great quiz",
  description = "This quiz is tricky"
)

## End(Not run)
```

create_material	<i>Create a new material</i>
-----------------	------------------------------

Description

Create a new material

Usage

```
create_material(  
  course_id = NULL,  
  topic_id = NULL,  
  publish = FALSE,  
  title = NULL,  
  description = NULL,  
  link = NULL  
)
```

Arguments

course_id	Course id of where to make the new materials. Can find from end of URL e.g. "https://classroom.google.com/c/COURSE_ID_IS_HERE"
topic_id	topic ID to be looked for.
publish	TRUE/FALSE, automatically publish the coursework upon posting? Default is to be posted as a draft (students will not see it until you click Post).
title	Name of new material
description	A description for the new material
link	A URL to go with the associated material

Examples

```
## Not run:  
course_id <- get_course_list()$courses$id[3]  
topic_id <- get_topic_list(course_id)$topic$topicId[1]  
  
create_material(course_id, topic_id, title = "new material")  
  
## End(Not run)
```

```
create_multiple_choice_question
    Create a multiple choice question
```

Description

Create a multiple choice question

Usage

```
create_multiple_choice_question(
    form_id = NULL,
    commit_to_form = TRUE,
    required = FALSE,
    question = NULL,
    choice_vector = NULL,
    shuffle_opt = FALSE,
    correct_answer = NULL,
    google_forms_request = NULL,
    point_value = 1,
    quiet = FALSE,
    location = 0
)
```

Arguments

form_id	The id of the google form to be updated
commit_to_form	Whether or not the request should be committed. If need to build the request further, you will want to say FALSE. Default is TRUE
required	TRUE or FALSE is this a required question? Default is not required.
question	a string that is what the question should say
choice_vector	a character vector of the choices that should be given for this question
shuffle_opt	TRUE or FALSE options should be shuffled? default is FALSE
correct_answer	The index that corresponds to the correct answer in the 'choice_vector' supplied
google_forms_request	A google forms request object. If not supplied, it will be created new.
point_value	An integer representing how many points
quiet	TRUE/FALSE you'd like a progress message?
location	Where should the new question be added

Examples

```
## Not run:

create_multiple_choice_question(
  form_id = "12345",
  question = "What answer do you want?",
  choice_vector = c("A", "B", "C", "D"),
  correct_answer = 3,
  shuffle_opt = TRUE
)

## End(Not run)
```

create_quiz	<i>Create a quiz at a course</i>
-------------	----------------------------------

Description

Create a quiz at a course

Usage

```
create_quiz(
  course_id = NULL,
  quiz_title = NULL,
  quiz_description = NULL,
  topic_id = NULL,
  coursework_title = "none",
  work_type = "ASSIGNMENT",
  due_date = NULL,
  assignment_description = ""
)
```

Arguments

course_id	A course id where the quiz should be created
quiz_title	A string indicating the title for the quiz
quiz_description	A description for the quiz that will be made
topic_id	Optional - a topic Id where the quiz will be posted
coursework_title	a string that will be what the coursework title
work_type	Currently only supported work type is ASSIGNMENT.
due_date	A due date for this quiz, in year-month-day format
assignment_description	The description that will be given for the assignment

Examples

```
## Not run:

course_id <- get_course_list()$courses$id[1]
topic_id <- get_topic_list(course_id)$topic$topicId[1]

create_quiz(course_id,
  quiz_title = "new quiz", quiz_description = "This is a great quiz",
  topic_id = topic_id, due_date = "2025-12-1"
)

## End(Not run)
```

```
create_text_question Create a text question
```

Description

This function makes a google request object that will be able to be posted with a batch request and added to a Google form to edit it.

Usage

```
create_text_question(
  form_id = NULL,
  commit_to_form = TRUE,
  required = FALSE,
  question = NULL,
  correct_answer = NULL,
  google_forms_request = NULL,
  point_value = 1,
  location = 0,
  quiet = FALSE
)
```

Arguments

<code>form_id</code>	The id of the google form to be updated
<code>commit_to_form</code>	Whether or not the request should be committed. If need to build the request further, you will want to say FALSE. Default is TRUE
<code>required</code>	TRUE or FALSE is this a required question? Default is not required.
<code>question</code>	a string that is what the question should say
<code>correct_answer</code>	A string that matches exactly what would be considered a correct
<code>google_forms_request</code>	A google forms request object. If not supplied, it will be created new.
<code>point_value</code>	An integer representing how many points
<code>location</code>	Where should the new question be added
<code>quiet</code>	TRUE/FALSE you'd like a progress message?

Examples

```
## Not run:

create_text_question(
  form_id = "12345",
  question = "Put text here that is for filling in the blank",
  point_value = 1
)

## End(Not run)
```

create_topic	<i>Create a new topic</i>
--------------	---------------------------

Description

Create a new topic

Usage

```
create_topic(course_id = NULL, name = NULL)
```

Arguments

course_id	Course id of where to make the new topic. Can find from end of URL e.g. "https://classroom.google.com/c/COURSE_ID_IS_HERE"
name	Name of new topic. Required.

date_handler	<i>Handle and parse a due_date</i>
--------------	------------------------------------

Description

Handle and parse a due_date

Usage

```
date_handler(due_date)
```

Arguments

due_date	A string that is a date in format of year-month-day
----------	---

Examples

```
## Not run:
date_handler("2025-12-1")

## End(Not run)
```

delete_course *Delete a Google Classroom Course*

Description

Delete a Google Classroom Course

Usage

```
delete_course(course_id)
```

Arguments

course_id ID of the archived course you wish to delete

delete_coursework *Delete a Google Classroom Coursework*

Description

Delete a Google Classroom Coursework

Usage

```
delete_coursework(course_id, coursework_id)
```

Arguments

course_id Course id of where to make the new coursework. Can find from end of URL e.g. "https://classroom.google.com/c/COURSE_ID_IS_HERE"

coursework_id ID of the archived course you wish to delete

extract_meta	<i>Extract meta fields from a tag</i>
--------------	---------------------------------------

Description

Extract meta fields from a tag

Usage

```
extract_meta(tags)
```

Arguments

`tags` A single tag or vector of tags to extract the fields from.

Value

A named vector indicating the field and entry associated with it.

Examples

```
## Not run:

### Simple example
tag <- "{quiz, id: quiz_name_here, attempts: 10}"

# Extract metadata tags
meta <- extract_meta(tag)

### Example using a file
quiz_path <- good_quiz_path()
quiz_lines <- readLines(quiz_path)

# Put this in a data.frame so we can identify the content
quiz_df <- parse_quiz_df(quiz_lines)

# Extract the tags
tags <- quiz_df %>%
  dplyr::filter(type == "tag") %>%
  dplyr::pull("original")

# Extract metadata tags
meta <- extract_meta(tags)

## End(Not run)
```

get_coursework_list *Get list of courseworks for a course*

Description

Get list of courseworks for a course

Usage

```
get_coursework_list(course_id)
```

Arguments

course_id ID of the course to retrieve the courseworks from

Examples

```
## Not run:  
  
course_id <- get_course_list()$courses$id[1]  
  
get_coursework_list(course_id)  
  
## End(Not run)
```

get_coursework_properties
 Get Google Classroom Course Properties

Description

Get Google Classroom Course Properties

Usage

```
get_coursework_properties(course_id, coursework_id)
```

Arguments

course_id ID of the course you wish to retrieve information about a particular coursework
coursework_id ID of the coursework you wish to retrieve information about

get_course_list *Get list of courses*

Description

Get list of courses

Usage

```
get_course_list(owner_id = get_owner_id())$id
```

Arguments

owner_id owner_id to retrieve course listings from

Examples

```
## Not run:  
  
owner_id <- get_owner_id()  
course_df <- get_course_list(owner_id)  
  
## End(Not run)
```

get_course_properties *Get Google Classroom Course Properties*

Description

Get Google Classroom Course Properties

Usage

```
get_course_properties(course_id)
```

Arguments

course_id ID of the course you wish to retrieve information from

get_drive_file_list	<i>Get list of files from a Google Shared Drive</i>
---------------------	---

Description

Get list of files from a Google Shared Drive

Usage

```
get_drive_file_list(drive_id)
```

Arguments

drive_id	ID of the drive to retrieve a list of files from
----------	--

get_endpoint	<i>Generate endpoint for the Google classroom API</i>
--------------	---

Description

Generate endpoint for the Google classroom API

Usage

```
get_endpoint(
    type_of_endpoint = "classroom.endpoint.user",
    course_id = NULL,
    topic_id = NULL,
    coursework_id = NULL,
    materials_id = NULL,
    form_id = NULL
)
```

Arguments

type_of_endpoint	Type of endpoint to convert to url
course_id	(Optional) ID of the google course to be affected/retrieved
topic_id	(Optional) ID of the topic to be affected/retrieved
coursework_id	(Optional) ID of the coursework to be affected/retrieved
materials_id	(Optional) ID of the material to be affected/retrieved
form_id	(Optional) ID of the form to be affected/retrieved

Value

A url that is the endpoint for the API call

get_form_properties *Get Google Form Properties*

Description

Get Google Form Properties

Usage

```
get_form_properties(form_id = NULL, form_url = NULL)
```

Arguments

form_id	Google form Id
form_url	Google form url

Examples

```
## Not run:  
  
# Make the form  
form_info <- create_form(title = "A great quiz", description = "This quiz is tricky")  
  
# Get info about the form  
form_info <- get_form_properties(form_id = form_info$formId)  
  
## End(Not run)
```

get_form_responses *Get form responses*

Description

Get form responses

Usage

```
get_form_responses(form_id = NULL, form_url = NULL)
```

Arguments

form_id	The id of the google form to be updated
form_url	Google form url

Examples

```
## Not run:  
  
form_url <- "https://docs.google.com/forms/d/1woWtLVviIhrwb-NYEjVMO_IV2-62v0haS4N0/edit#responses"  
get_form_responses(form_url = form_url)  
  
## End(Not run)
```

```
get_linked_quizzes_list
```

Get list of forms used in a course as quizzes

Description

Get list of forms used in a course as quizzes

Usage

```
get_linked_quizzes_list(course_id)
```

Arguments

course_id ID of the course to retrieve the linked quizzes from

Examples

```
## Not run:  
course_id <- get_course_list()$courses$id[1]  
quiz_list <- get_linked_quizzes_list(course_id)  
  
## End(Not run)
```

```
get_materials_list
```

Get list of materials for a course

Description

Get list of materials for a course

Usage

```
get_materials_list(course_id)
```

Arguments

course_id ID of the course

Examples

```
## Not run:
course_id <- get_course_list()$courses$id[1]
materials_df <- get_materials_list(course_id)

## End(Not run)
```

```
get_materials_properties
      Get Google Classroom Materials properties
```

Description

Get Google Classroom Materials properties

Usage

```
get_materials_properties(course_id, materials_id)
```

Arguments

course_id	ID of the course
materials_id	The material id you wish to retrieve

Examples

```
## Not run:
course_id <- get_course_list()$courses$id[3]
materials_id <- get_materials_list(course_id)$material_id$courseWorkMaterial$id[1]

get_materials_properties(course_id, materials_id)

## End(Not run)
```

```
get_owner_id      Get ownerId based on credentials
```

Description

Get ownerId based on credentials

Usage

```
get_owner_id()
```

get_topic_list *Get list of topics for a course*

Description

Get list of topics for a course

Usage

```
get_topic_list(course_id)
```

Arguments

course_id ID of the course you wish to retrieve a topic list from

Examples

```
## Not run:  
  
course_id <- get_course_list()$courses$id[1]  
  
get_topic_list(course_id)  
  
## End(Not run)
```

get_topic_properties *Get Google Classroom Topic Properties*

Description

Get Google Classroom Topic Properties

Usage

```
get_topic_properties(course_id, topic_id)
```

Arguments

course_id ID of the course
topic_id topic ID to be looked for.

good_quiz_path	<i>Path to good example quiz</i>
----------------	----------------------------------

Description

Path to good example quiz

Usage

```
good_quiz_path()
```

Value

The file path to an example good quiz included in the package that should pass the quiz checks.

is.google_forms_request	<i>Check if the object is a google forms request object</i>
-------------------------	---

Description

Check if the object is a google forms request object

Usage

```
is.google_forms_request(x)
```

Arguments

x	A google_forms_request object created from the rgoogleclassroom package
---	---

make_form_quiz	<i>Turn a form into a quiz</i>
----------------	--------------------------------

Description

Turn a form into a quiz

Usage

```
make_form_quiz(form_id)
```

Arguments

form_id	The id of the google form to be updated into a Quiz
---------	---

Examples

```
## Not run:  
  
# Make the form  
form_info <- create_form(title = quiz_title)  
  
# Now make it a quiz  
make_form_quiz(form_id = form_info$formId)  
  
## End(Not run)
```

markdown_quiz_path *Get file path to an example quiz*

Description

Get file path to an example quiz

Usage

```
markdown_quiz_path()
```

Value

A file path to a markua markdown quiz example you can use for testing

Examples

```
## Not run:  
  
# Find quiz path  
  
quiz_path <- markdown_quiz_path()  
  
## End(Not run)
```

ottr_quiz_to_google *Create Google Form Quiz from Markua quiz*

Description

Takes a file path to a Markua formatted quiz and runs the steps to convert it to a Google Form Request and sends It to be a Google form quiz.

Usage

```

ottr_quiz_to_google(
  quiz_path = NULL,
  course_id = NULL,
  quiz_title = NULL,
  topic_id = NULL,
  coursework_title = NULL,
  form_id = NULL,
  due_date = NULL,
  make_new_quiz = FALSE,
  copy_from_template_quiz = TRUE,
  new_name = NULL,
  assignment_description = "",
  quiz_description = "",
  output_path = NULL,
  quiet = FALSE
)

```

Arguments

quiz_path	file path to a markdown Markua quiz
course_id	An id for the course where this is to be published and linked.
quiz_title	The title for the quiz. If not supplied, it will attempt to be grabbed from the Markua doc
topic_id	topic ID that the quiz should be added under.
coursework_title	the title for the coursework to be created
form_id	form id where this quiz is to be published. Alternatively, if you want a new quiz to be made, you should set <code>make_new_quiz = TRUE</code> and leave this NULL.
due_date	A due date for this quiz, in year-month-day format
make_new_quiz	This can only be used if <code>form_id</code> is not specified. This will make a new quiz
copy_from_template_quiz	TRUE or FALSE the form supplied should be copied over and used as a template.
new_name	To be passed to 'copy_form' if 'copy_from_template_quiz' is TRUE. What the new file name should be called
assignment_description	The description that will be given for the assignment
quiz_description	The description that will be given for the quiz
output_path	Optional file path to save the question formatted data to
quiet	TRUE/FALSE you'd like a progress message?

Examples

```
## Not run:  
  
# Using quiz example  
  
quiz_path <- markdown_quiz_path()  
  
ottr_quiz_to_google(  
  markdown_quiz_path(),  
  course_id = "606463350924",  
  make_new_quiz = TRUE,  
  due_date = "2025-12-1"  
)  
  
## End(Not run)
```

parse_quiz

Parse Quiz and Other Checking Functions

Description

Parse Quiz and Other Checking Functions

Extract lines of the quiz

Usage

```
parse_quiz(quiz_lines, quiz_name = NULL, verbose = FALSE)
```

```
extract_quiz(quiz_lines)
```

Arguments

quiz_lines	A quiz's contents read in with readLines()
quiz_name	A character vector indicating the name of the quiz.
verbose	Would you like progress messages? TRUE/FALSE

Value

A list of elements, including a 'data.frame' and metadata for questions the lines of the quiz that actually contain of the content of the quiz.

Examples

```

quiz_lines <- c(
  "{quiz, id: quiz_00_filename}",
  "### Lesson Name quiz",
  "{choose-answers: 4}",
  "? What do you think?",
  "",
  "C) The answer to this one",
  "o) Not the answer",
  "o) Not the answer either",
  "C) Another correct answer",
  "m) Mandatory different answer",
  "",
  "{/quiz}"
)
quiz_specs <- parse_quiz(quiz_lines)
check_quiz_attributes(quiz_specs)

```

 parse_quiz_df

Parse quiz into a data.frame

Description

Parse quiz into a data.frame

Usage

```
parse_quiz_df(quiz_lines, remove_tags = FALSE)
```

Arguments

quiz_lines	A character vector of the contents of the markdown file obtained from readLines()
remove_tags	TRUE/FALSE remove tags and empty lines?

Value

A data frame containing a type column which indicates what type of line each is.

Examples

```

## Not run:

# Use readLines() to read in a quiz
quiz_path <- good_quiz_path()
quiz_lines <- readLines(quiz_path)

```

```
# Can use this to parse the quiz into a data.frame
quiz_df <- parse_quiz_df(quiz_lines)

## End(Not run)
```

parse_q_tag *Parse apart a tag*

Description

Parse apart a tag

Usage

```
parse_q_tag(tag)
```

Arguments

tag A single tag to extract from

Value

A named vector indicating the field and entry associated with it.

Examples

```
tag <- "{quiz, id: quiz_name_here, attempts: 10}"
parse_q_tag(tag)
```

publish_coursework *Publish a Google Classroom CourseWork*

Description

Publish a Google Classroom CourseWork

Usage

```
publish_coursework(course_id, coursework_id)
```

Arguments

course_id ID of the archived course you wish to delete
coursework_id coursework ID of the coursework you wish to publish

time_handler	<i>Handle and parse a time</i>
--------------	--------------------------------

Description

Handle and parse a time

Usage

```
time_handler(due_time = lubridate::hms("23:59:59"))
```

Arguments

due_time A string that is a date in format of year-month-day. Default is midnight.

Examples

```
## Not run:  
time_handler("21:30:59")  
  
## End(Not run)
```

translate_questions_api	<i>Translate Markua questions for submission to Google API</i>
-------------------------	--

Description

Takes a Markua formatted quiz and translates it to something that can be sent to Google Forms API.

Usage

```
translate_questions_api(quiz_path, output_path = NULL)
```

Arguments

quiz_path The file path to a Markua formatted quiz to be translated to Google Forms API format

output_path Optional file path to save the formatted data to a JSON file

Value

A list of the output from check_question with messages/warnings regarding each question and each check.

Examples

```
## Not run:  
  
# Using quiz example  
  
quiz_path <- markdown_quiz_path()  
parsed_questions <- translate_questions_api(quiz_path)  
  
## End(Not run)
```

update_form_settings *Create a multiple choice question*

Description

Create a multiple choice question

Usage

```
update_form_settings(  
  form_id = NULL,  
  title = NULL,  
  description = NULL,  
  google_forms_request = NULL,  
  quiet = FALSE  
)
```

Arguments

form_id	The id of the google form to be updated
title	An updated title
description	An updated description
google_forms_request	A google forms request object. If not supplied, it will be created new.
quiet	TRUE/FALSE you'd like a progress message?

Examples

```
## Not run:  
  
update_form_settings(  
  form_id = "12345",  
  new_title = NULL,  
  new_description = NULL  
)  
  
## End(Not run)
```

Index

archive_course, 3
auth_from_secret, 4
authorize, 3

bad_quiz_path, 4

check_all_questions, 5
check_question, 6
check_quiz, 7
check_quiz_attributes, 9
check_quiz_dir, 9
check_quiz_question_attributes, 11
check_quizzes, 8
commit_to_form, 11
copy_form, 12
create_course, 12
create_coursework, 13
create_form, 14
create_material, 15
create_multiple_choice_question, 16
create_quiz, 17
create_text_question, 18
create_topic, 19

date_handler, 19
delete_course, 20
delete_coursework, 20

extract_meta, 21
extract_quiz (parse_quiz), 32

get_course_list, 23
get_course_properties, 23
get_coursework_list, 22
get_coursework_properties, 22
get_drive_file_list, 24
get_endpoint, 24
get_form_properties, 25
get_form_responses, 25
get_linked_quizzes_list, 26
get_materials_list, 26

get_materials_properties, 27
get_owner_id, 27
get_topic_list, 28
get_topic_properties, 28
good_quiz_path, 29

is.google_forms_request, 29

make_form_quiz, 29
markdown_quiz_path, 30

ottr_quiz_to_google, 30

parse_q_tag, 34
parse_quiz, 32
parse_quiz_df, 33
publish_coursework, 34

time_handler, 35
translate_questions_api, 35

update_form_settings, 36