Package 'vvcanvas'

April 29, 2024

Title 'Canvas' LMS API Integration

Version 0.0.4
Description Allow R users to interact with the 'Canvas' Learning Management System (LMS) API (see https://canvas.instructure.com/doc/api/all_resources.html for details). It provides a set of functions to access and manipulate course data, assignments, grades, users, and other resources available through the 'Canvas' API.
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canvas_api_key

Get the Canvas API key from the environment variable

Description

Get the Canvas API key from the environment variable

Usage

```
canvas_api_key()
```

Value

The Canvas API key stored in the CANVAS_API_KEY environment variable.

canvas_authenticate

Authenticate with Canvas LMS API

Description

This function handles authentication with the Canvas LMS API. It uses the provided API key and base URL, or falls back to the CANVAS_API_KEY and CANVAS_BASE_URL environment variables if none are provided.

Usage

```
canvas_authenticate(api_key = canvas_api_key(), base_url = canvas_base_url())
```

Arguments

api_key The API key for authenticating with the Canvas LMS API. Defaults to the

CANVAS_API_KEY environment variable.

base_url The base URL of the Canvas instance. Defaults to the CANVAS_BASE_URL envi-

ronment variable.

Value

A list containing the authenticated 'api_key' and 'base_url'.

Note

The function verifies authentication by making a test request to the /api/v1/users/self endpoint of the Canvas instance. If the response status code is not 200, it throws an error message indicating that authentication failed.

Examples

```
## Not run:
# Authenticate with the Canvas LMS API
api_key <- "your_api_key"
base_url <- "https://canvas.example.com"
canvas <- canvas_authenticate(api_key, base_url)
## End(Not run)</pre>
```

canvas_base_url

Get the Canvas base URL from the environment variable

Description

Get the Canvas base URL from the environment variable

Usage

```
canvas_base_url()
```

Value

The Canvas base URL stored in the CANVAS_BASE_URL environment variable.

```
create_assignment_group
```

Create an Assignment Group in Canvas LMS

Description

Creates a new assignment group in a specific course using the Canvas LMS API.

Usage

```
create_assignment_group(canvas, course_id, group_name, group_position = NULL)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course in which to create the assignment group.

group_name The name of the assignment group.

group_position The position of the assignment group in the course (optional).

Value

A confirmation message that the assignment group has been created.

create_course_datalake 5

```
create_course_datalake
```

Create a data lake for a course.

Description

This function retrieves data from various endpoints for a specific course in the Canvas LMS API and stores the data as JSON files in a specified storage location.

Usage

```
create_course_datalake(canvas, course_id, storage_location)
```

Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

course_id The ID of the course for which to create the data lake.

storage_location

The path to the storage location where the data files will be saved.

Value

NULL.

Note

This function retrieves data from various endpoints. Access to certain endpoints may require specific roles.

Description

Creates a new course section in a specific course using the Canvas LMS API.

```
create_course_section(
  canvas,
  course_id,
  section_name,
  section_start_date = NULL,
  section_end_date = NULL
)
```

6 create_folder

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course in which to create the section.

section_name The name of the section.

section_start_date

(Optional) The start date of the section.

section_end_date

(Optional) The end date of the section.

Value

A confirmation message that the section has been created.

create_folder

Create a Folder in Canvas LMS

Description

Creates a new folder in a specific course using the Canvas LMS API.

Usage

```
create_folder(canvas, course_id, folder_name, parent_folder_id = NULL)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course in which to create the folder.

folder_name The name of the folder.

parent_folder_id

(Optional) The ID of the parent folder in which to create the folder.

Value

A confirmation message that the folder has been created.

create_group_category 7

Description

Creates a new group category in a specific course using the Canvas LMS API.

Usage

```
create_group_category(
  canvas,
  course_id,
  category_name,
  allow_self_signup = FALSE
)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course in which to create the group category.

category_name The name of the group category.

allow_self_signup

(Optional) Whether to allow self-signup for groups in the category. Defaults to

FALSE.

Value

A confirmation message that the group category has been created.

Description

Creates a new page in a specific course using the Canvas LMS API.

```
create_page(canvas, course_id, page_title, page_body, published = FALSE)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course in which to create the page.

page_title The title of the page.

page_body The body/content of the page.

published (Optional) Whether the page should be published. Defaults to FALSE.

Value

A confirmation message that the page has been created.

Description

Deletes an existing course section using the Canvas LMS API.

Usage

```
delete_course_section(canvas, section_id)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

section_id The ID of the section to delete.

Value

A confirmation message that the section has been deleted.

Description

This function downloads a file from a specified URL and saves it locally.

```
download_course_file(canvas, file_url, download_path)
```

edit_section 9

Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

file_url The URL of the file to download.

download_path
The path where the file should be downloaded.

Value

The path of the downloaded file.

Examples

```
## Not run:
# Download a file from a given URL
canvas <- canvas_authenticate(api_key, base_url)
file_url <- "https://example.com/file.pdf"
download_path <- "path/to/save/file.pdf"
file_path <- download_course_file(canvas, file_url, download_path)
## End(Not run)</pre>
```

edit_section

Edit a Course Section in Canvas LMS

Description

Modifies an existing course section using the Canvas LMS API.

```
edit_section(
  canvas,
  section_id,
  section_name = NULL,
  sis_section_id = NULL,
  integration_id = NULL,
  section_start_date = NULL,
  section_end_date = NULL,
  restrict_enrollments_to_section_dates = NULL,
  override_sis_stickiness = NULL
)
```

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Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

section_id The ID of the section to edit.

section_name The new name of the section (optional).
sis_section_id The new SIS ID of the section (optional).

integration_id The new integration ID of the section (optional).

section_start_date

The new start date of the section (optional).

section_end_date

The new end date of the section (optional).

restrict_enrollments_to_section_dates

Whether to restrict user enrollments to the start and end dates of the section

(optional).

override_sis_stickiness

Whether to override SIS stickiness (optional).

Value

A confirmation message that the section has been edited.

get_accounts Get a list of accounts from the Canvas LMS API

Description

Retrieves a paginated list of accounts that the current user can view or manage.

Usage

```
get_accounts(canvas, include = NULL, per_page = 100)
```

Arguments

A list containing the 'api_key' and 'base_url' for authentication.

A vector of additional information to include. Default is NULL.

per_page Number of accounts to retrieve per page. Default is 100.

Value

A list of accounts retrieved from the Canvas LMS API.

get_all_courses 11

get_all_courses	Retrieves a paginated list of all courses visible in the public index.

Description

This function retrieves a paginated list of all courses visible in the public index using the Canvas LMS API. *NOTE* This function might take a while to finish.

Usage

```
get_all_courses(canvas, per_page = 100)
```

Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

per_page (Optional) The number of courses to retrieve per page of results (default is 100).

Value

A data frame of courses visible in the public index.

get_assignments Get Assignments from Canvas LMS API	get_assignments	Get Assignments from Canvas LMS API	
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Description

Fetches a list of assignments within a specific course from the Canvas LMS API.

Usage

```
get_assignments(canvas, course_id)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course for which to retrieve the assignments.

Value

A list of assignments retrieved from the Canvas LMS API.

 $\verb"get_assignment_data" \textit{ Get course-level assignment data from the Canvas LMS API}$

Description

Retrieves the course-level assignment data for a specific course from the Canvas LMS API.

Usage

```
get_assignment_data(canvas, course_id, per_page = 100)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course for which to retrieve the assignment data.

Per_page Number of assignment data to retrieve per page. Default is 100.

Value

A list of assignment data retrieved from the Canvas LMS API.

Description

Retrieves detailed information about a specific assignment from the Canvas LMS API.

Usage

```
get_assignment_details(canvas, course_id, assignment_id)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course in which the assignment resides.

assignment_id The ID of the assignment for which to retrieve the details.

Value

A dataframe containing the detailed information about the assignment.

```
get_assignment_submissions
```

Lists assignment submissions for a course.

Description

This function retrieves a list of assignment submissions for a specific course in the Canvas LMS API.

Usage

```
get_assignment_submissions(
  canvas,
  course_id,
  assignment_id = NULL,
  per_page = 100
)
```

Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

course_id The ID of the course for which to list assignment submissions.

assignment_id (Optional) The ID of a specific assignment for which to list submissions.

per_page (Optional) The number of submissions to retrieve per page of results (default is

100).

Value

A data frame of assignment submissions for the specified course and assignment.

get_calendar_events

Get Calendar Events from Canvas LMS API

Description

Retrieve the paginated list of calendar events or assignments for the current user.

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Usage

```
get_calendar_events(
   canvas,
   type = "event",
   start_date = NULL,
   end_date = NULL,
   undated = FALSE,
   all_events = FALSE,
   context_codes = NULL,
   includes = NULL,
   important_dates = FALSE,
   blackout_date = FALSE
)
```

Arguments

canvas	A list containing the 'api_key' and 'base_url' for authentication.
type	The type of events to retrieve. Default is "event". Allowed values: event, assignment.
start_date	Only return events since the start_date (inclusive). Defaults to today.
end_date	Only return events before the end_date (inclusive). Defaults to start_date.
undated	Defaults to false (dated events only). If true, only return undated events and ignore start_date and end_date.
all_events	Defaults to false (uses start_date, end_date, and undated criteria). If true, all events are returned, ignoring start_date, end_date, and undated criteria.
context_codes	List of context codes of courses, groups, users, or accounts whose events you want to see. If not specified, defaults to the current user (i.e personal calendar, no course/group events).
excludes	Array of attributes to exclude. Possible values are "description", "child_events" and "assignment".
includes	Array of optional attributes to include. Possible values are "web_conference" and if calendar_series flag is on, "series_natural_language".
important_dates	
	Defaults to false. If true, only events with important dates set to true will be returned.
blackout_date	Defaults to false. If true, only events with blackout date set to true will be

Value

A data frame of calendar events retrieved from the Canvas LMS API.

returned.

get_courses 15

get_courses	Get Courses from Canvas LMS API
90	Get Com ses j.c. Com com dis 22/15 111 1

Description

Retrieves a list of courses from the Canvas LMS API.

Usage

```
get_courses(canvas, per_page = 100)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

per_page Number of courses to retrieve per page. Default is 100.

Value

A list of courses retrieved from the Canvas LMS API.

```
get_course_announcements
```

Retrieves course announcements.

Description

This function retrieves a list of announcements for a specific course in the Canvas LMS API.

Usage

```
get_course_announcements(canvas, course_id, per_page = 100)
```

Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

course_id The ID of the course for which to retrieve announcements.

per_page (Optional) The number of announcements to retrieve per page of results (default

is 100).

Value

A data frame of course announcements.

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get course	getails	Get Course D	ì

Get Course Details from Canvas LMS API

Description

Retrieves detailed information about a specific course from the Canvas LMS API.

Usage

```
get_course_details(canvas, course_id)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course for which to retrieve the details.

Value

A dataframe containing the detailed information about the course.

```
get_course_enrollments
```

Retrieves the course enrollments for a course.

Description

This function retrieves the enrollments of students and other roles in a specific course in the Canvas LMS API.

Usage

```
get_course_enrollments(canvas, course_id, per_page = 100)
```

Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

course_id The ID of the course for which to fetch the enrollments.

per_page (Optional) The number of enrollments to retrieve per page of results (default is

100).

Value

A data frame of course enrollments for the specified course.

get_course_files 17

course_files Retrieves a list of files within a course.

Description

This function retrieves a list of files within a specific course in the Canvas LMS API.

Usage

```
get_course_files(canvas, course_id, per_page = 100)
```

Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

course_id The ID of the course for which to fetch the files.

per_page (Optional) The number of files to retrieve per page of results (default is 100).

Value

A data frame of files within the specified course.

get_course_folders	Retrieves course folders.	
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Description

This function retrieves a list of folders for a specific course in the Canvas LMS API.

Usage

```
get_course_folders(canvas, course_id, per_page = 100)
```

Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

course_id The ID of the course for which to retrieve folders.

per_page Number of courses to retrieve per page. Default is 100.

Value

A data frame of course folders.

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get_course_groups	Retrieves the list of groups in a course.	
-------------------	---	--

Description

This function retrieves the list of groups in a specific course in the Canvas LMS API.

Usage

```
get_course_groups(canvas, course_id, per_page = 100)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course for which to fetch the groups.

per_page (Optional) The number of groups to retrieve per page of results (default is 100).

Value

A data frame of groups in the specified course.

get_course_pages	Retrieves the pages within a course.	

Description

This function retrieves the pages within a specific course in the Canvas LMS API.

Usage

```
get_course_pages(canvas, course_id, per_page = 100)
```

Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

course_id The ID of the course for which to fetch the pages.

per_page (Optional) The number of pages to retrieve per page of results (default is 50).

Value

A list of pages within the specified course.

get_course_participation

get_course_participation

Get course-level participation data from Canvas LMS API

Description

Fetches the participation data for a specific course from the Canvas LMS API.

Usage

```
get_course_participation(canvas, course_id)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course for which to retrieve the participation data.

Value

The participation data for the specified course retrieved from the Canvas LMS API.

get_course_quizzes Retrieves course quizzes.

Description

This function retrieves a list of quizzes for a specific course in the Canvas LMS API.

Usage

```
get_course_quizzes(canvas, course_id, per_page = 100)
```

Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

course_id The ID of the course for which to retrieve quizzes.

per_page (Optional) The number of quizzes to retrieve per page of results (default is 100).

Value

A data frame of course quizzes.

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t_course_sections	Retrieves course sections.	

Description

This function retrieves a list of sections for a specific course in the Canvas LMS API.

Usage

```
get_course_sections(canvas, course_id, per_page = 100)
```

Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

course_id The ID of the course for which to retrieve sections.

per_page (Optional) The number of sections to retrieve per page of results (default is 100).

Value

A data frame of course sections.

<pre>get_course_students</pre>	Retrieves the list of students in a course.	
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Description

This function retrieves the list of students enrolled in a specific course in the Canvas LMS API.

Usage

```
get_course_students(canvas, course_id, per_page = 100)
```

Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

course_id The ID of the course for which to fetch the students.

per_page (Optional) The number of students to retrieve per page of results (default is 100).

Value

A data frame of students enrolled in the specified course.

```
get_department_grade_data
```

Get department-level grade data from the Canvas LMS API

Description

Retrieves the department-level grade data for a specific account and term from the Canvas LMS API.

Usage

```
get_department_grade_data(
  canvas,
  account_id,
  type = "current",
  term_id = NULL,
  per_page = 100
)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

account_id The ID of the account for which to retrieve the grade data.

type The type of courses to include in the data. Can be 'current', 'completed', or

'term'.

term_id The ID of the term for which to retrieve the grade data. Only used when type is

'terms/<term_id>'.

per_page Number of grade data to retrieve per page. Default is 100.

Value

A data frame of grade data retrieved from the Canvas LMS API.

```
get_department_participation_data
```

Get department-level participation data from the Canvas LMS API

Description

Retrieves the department-level participation data for a specific account and term from the Canvas LMS API.

Usage

```
get_department_participation_data(
  canvas,
  account_id,
  type = "current",
  term_id = NULL,
  per_page = 100
)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

account_id The ID of the account for which to retrieve the participation data.

type The type of courses to include in the data. Can be 'current', 'completed', or

'term'.

term_id The ID of the term for which to retrieve the participation data. Only used when

type is 'terms/<term_id>'.

per_page Number of participation data to retrieve per page. Default is 100.

Value

A data frame of participation data retrieved from the Canvas LMS API.

```
get_department_statistics
```

Get department-level statistics from the Canvas LMS API

Description

Retrieves department-level statistics for a specific account and term from the Canvas LMS API.

Usage

```
get_department_statistics(canvas, account_id, type = "current", term_id = NULL)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

account_id The ID of the account for which to retrieve the statistics.

type The type of courses to include in the data. Can be 'current', 'completed', or

'term'.

term_id The ID of the term for which to retrieve the statistics. Only used when type is

'terms/<term_id>'.

Value

A list of department-level statistics retrieved from the Canvas LMS API.

```
get_department_statistics_by_subaccount
```

Get department-level statistics by subaccount from the Canvas LMS API

Description

Retrieves department-level statistics for a specific account and term from the Canvas LMS API.

Usage

```
get_department_statistics_by_subaccount(
  canvas,
  account_id,
  type = "current",
  term_id = NULL
)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

account_id The ID of the account for which to retrieve the statistics.

type The type of courses to include in the data. Can be 'current', 'completed', or

'term'.

term_id The ID of the term for which to retrieve the statistics. Only used when type is

'terms/<term_id>'.

Value

A list of department-level statistics retrieved from the Canvas LMS API.

get_discussions

Retrieves the discussion topics within a course.

Description

This function retrieves the discussion topics within a specific course in the Canvas LMS API.

```
get_discussions(canvas, course_id, per_page = 100)
```

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Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

course_id The ID of the course for which to fetch the discussion topics.

per_page The number of entries to show

Value

A list of discussion topics within the specified course.

get_favorite_courses Get Favorite Courses in Canvas LMS

Description

Retrieves the data of favorite courses for the authenticated user using the Canvas LMS API.

Usage

```
get_favorite_courses(canvas, exclude_blueprint_courses = NULL)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

exclude_blueprint_courses

When set, only return courses that are not configured as blueprint courses (op-

tional).

Value

The dataframe of favorite courses.

get_group_categories Get group categories for a context

Description

This function retrieves the group categories for a specific context (e.g., course) in the Canvas LMS API.

```
get_group_categories(canvas, course_id)
```

get_group_info 25

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication. course_id The ID of the course for which to retrieve the group categories.

Value

A data frame of group categories in the specified context.

get_group_info
Get information about a single group

Description

This function retrieves information about a specific group in the Canvas LMS API.

Usage

```
get_group_info(canvas, group_id)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.
group_id The ID of the group for which to retrieve the information.

Value

A list containing the information about the specified group.

get_group_memberships Get group memberships

Description

This function retrieves the memberships for a specific group in the Canvas LMS API.

Usage

```
get_group_memberships(canvas, group_id)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.
group_id The ID of the group for which to retrieve the memberships.

Value

A data frame of memberships in the specified group.

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get_group_users	Get users in a group	

Description

This function retrieves the users in a specific group in the Canvas LMS API.

Usage

```
get_group_users(canvas, group_id)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

group_id The ID of the group for which to retrieve the users.

Value

A data frame of users in the specified group.

<pre>get_modules</pre>	Retrieves the modules within a course.	
------------------------	--	--

Description

This function retrieves the modules within a specific course in the Canvas LMS API.

Usage

```
get_modules(canvas, course_id, per_page = 100)
```

Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

course_id The ID of the course for which to fetch the modules.

per_page The number of entries to show

Value

A list of modules within the specified course.

get_module_items 27

<pre>get_module_items</pre>	Retrieves the items within a specific module.	

Description

This function retrieves the items within a specific module of a course in the Canvas LMS API.

Usage

```
get_module_items(canvas, course_id, module_id)
```

Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

course_id The ID of the course containing the module.

module_id The ID of the module for which to fetch the items.

Value

A list of items within the specified module.

get_page_content	Retrieves the content body of a specified page.	
get_page_content	Ketrieves the content body of a specified page.	

Description

This function retrieves the content body of a specified page within a course in the Canvas LMS API.

Usage

```
get_page_content(canvas, course_id, page_id)
```

Arguments

canvas An object containing the Canvas API key and base URL, obtained through the

canvas_authenticate function.

course_id The ID of the course to which the page belongs.

page_id The ID of the page for which to fetch the content body.

Value

The content body of the specified page.

get_roles	Retrieve Roles for a Canvas Account
8	<i>j j j</i>

Description

This function retrieves a paginated list of the roles available to a specific account in the Canvas LMS system.

Usage

```
get_roles(canvas, account_id, per_page = 100)
```

Arguments

canvas A list containing the base URL and API key for the Canvas LMS instance.

account_id The ID of the account for which you want to retrieve the roles.

per_page The number of roles to retrieve per page (default is 100).

Value

A data frame containing the roles available to the specified account.

```
get_section_information

Get Section Information in Canvas LMS
```

Description

Retrieves information about a specific course section using the Canvas LMS API.

Usage

```
get_section_information(canvas, course_id, section_id)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course.
section_id The ID of the section.

Value

The information about the section.

get_student_summaries 29

get_student_summaries Get student summaries for a course from Canvas LMS API

Description

Retrieves the student summaries for a specific course from the Canvas LMS API.

Usage

```
get_student_summaries(canvas, course_id, per_page = 100)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course for which to retrieve the student summaries.

Per_page Number of student summaries to retrieve per page. Default is 100.

Value

A list of student summaries retrieved from the Canvas LMS API.

```
get_user_course_assignment_data
```

Get user-in-a-course-level assignment data from the Canvas LMS API

Description

Retrieves user-in-a-course-level assignment data for a specific course and student from the Canvas LMS API.

Usage

```
get_user_course_assignment_data(canvas, course_id, student_id)
```

Arguments

canvas	A list containing the 'api_key' and 'base_url' for authentication.
course_id	The ID of the course for which to retrieve the assignment data.
student_id	The ID of the student for which to retrieve the assignment data.

Value

A list of user-in-a-course-level assignment data retrieved from the Canvas LMS API.

```
get_user_course_messaging_data
```

Get user-in-a-course-level messaging data from the Canvas LMS API

Description

Retrieves user-in-a-course-level messaging data for a specific course and student from the Canvas LMS API.

Usage

```
get_user_course_messaging_data(canvas, course_id, student_id)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course for which to retrieve the messaging data.

Student_id The ID of the student for which to retrieve the messaging data.

Value

A list of user-in-a-course-level messaging data retrieved from the Canvas LMS API.

```
{\tt get\_user\_course\_participation\_data}
```

Get user-in-a-course-level participation data from the Canvas LMS API

Description

Retrieves user-in-a-course-level participation data for a specific course and student from the Canvas LMS API.

Usage

```
get_user_course_participation_data(canvas, course_id, student_id)
```

Arguments

canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course for which to retrieve the participation data.

student_id The ID of the student for which to retrieve the participation data.

Value

A list of user-in-a-course-level participation data retrieved from the Canvas LMS API.

post_new_discussion 31

post_new_discussion

Post a New Discussion in Canvas LMS

Description

Creates a new discussion topic in a specific course using the Canvas LMS API.

Usage

```
post_new_discussion(
   canvas,
   course_id,
   discussion_title,
   discussion_message,
   discussion_is_announcement = FALSE
)
```

Arguments

```
canvas A list containing the 'api_key' and 'base_url' for authentication.

course_id The ID of the course in which to create the discussion.

discussion_title
The title of the discussion topic.

discussion_message
The initial message content of the discussion topic.

discussion_is_announcement
(Optional) Whether the discussion should be an announcement. Defaults to FALSE.
```

Value

A confirmation message that the discussion has been created.

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