Weverse

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CHAPTER

ONE

WEVERSECLIENT

class Weverse.**WeverseClient**(***kwargs*)

Abstract & Parent Client for connecting to Weverse and creating the internal cache.

Do not create an object directly from this class. Instead, create a *Weverse.WeverseClientSync* or *Weverse.WeverseClientAsync* object since those are concrete.

Parameters

- **verbose** (*bool*) – Whether to print out verbose messages.
- **web_session** – An aiohttp or requests client session.
- **authorization** (str) – The account token to connect to the Weverse API. In order to find your token, please refer to *Get Account Token*
- **username** (str) – The email or username associated with the account.
- **password** (str) – The password associated with the account.
- **hook** – A passed in method that will be called every time there is a new notification. This method must take in a list of *models.Notification* objects.

verbose

Whether to print out verbose messages.

Type
bool

web_session

An aiohttp or requests client session.

user_notifications

Most recent notifications of the account connected.

Type
list

cache_loaded

Whether the Internal Weverse Cache is fully loaded. This will change for a split moment when grabbing a new post.

Type
bool

user_endpoint

User info endpoint.

Type
str

`all_posts`

All posts in cache where the Post ID is the key and the value is the Post Object

Type
dict(*Post*)

`all_artists`

All artists in cache where the Artist ID is the key and the value is the Artist Object

Type
dict(*Artist*)

`all_comments`

All comments in cache where the Comment ID is the key and the value is the Comment Object

Type
dict(*Comment*)

`all_notifications`

All notifications in cache where the Notification ID is the key and the value is the Notification Object

Type
dict(*Notification*)

`all_photos`

All photos in cache where the Photo ID is the key and the value is the Photo Object

Type
dict(*Photo*)

`all_communities`

All communities in cache where the Community ID is the key and the value is the Community Object

Type
dict(*Community*)

`all_media`

All media in cache where the Media ID is the key and the value is the Media Object

Type
dict(*Media*)

`all_tabs`

All tabs in cache where the Tab ID is the key and the value is the Tab Object

Type
dict(*Tab*)

`all_videos`

All videos in cache where the Video URL is the key and the value is the Video Object

Type
dict(*Video*)

`all_announcements`

All announcements/notices in cache where the Announcement ID is the key and the value is the Announcement Object

Type
dict(*Announcement*)

check_status(*status*, *url*) → bool

Confirm the status of a URL

Parameters

- **status** – Status code of url connection
- **url** – Link that we connected to.

Returns
True if the connection was a success.

Raises
Invalid Token if there was an invalid token.

static determine_notification_type(*notification: Union[*Notification*, str]*) → str

Determine the post type based on the notification body or the Notification object itself.

Since notifications do not differentiate between Posts and Comments, this is for that purpose.

Parameters
notification – The message body of the notification or the notification itself.

Returns
A string with either “comment”, “media”, “post”, or “announcement”.

get_announcement_by_id(*announcement_id*) → Optional[*Announcement*]

Get Announcement by the ID

Parameters
announcement_id – Media ID

Returns
Optional[*Announcement*]

get_artist_by_id(*artist_id*) → Optional[*Artist*]

Get artist by their ID.

Parameters
artist_id – The artist’s ID

Returns
Optional[*Artist*]

get_comment_by_id(*comment_id*) → Optional[*Comment*]

Get a comment by the ID :param comment_id: Comment ID :returns: Optional[*Comment*]

get_community_by_id(*community_id*) → Optional[*Community*]

Get a community by the ID.

Parameters
community_id – Community ID

Returns
Optional[*Community*]

get_media_by_id(*media_id*) → Optional[*Media*]

Get Media by the ID

Parameters
media_id – Media ID

Returns
Optional[*Media*]

get_new_notifications() → List[*Notification*]

Will get the new notifications from the last notification check.

Should only be used after check_new_user_notifications OR update_cache_from_notification.

Returns
List[*Notification*]

get_notification_by_id(*notification_id*) → Optional[*Notification*]

Get a notification by the ID

Parameters
notification_id – Notification ID

Returns
Optional[*Notification*]

get_photo_by_id(*photo_id*) → Optional[*Photo*]

Get a photo by the ID

Parameters
photo_id – Photo ID

Returns
Optional[*Photo*]

get_post_by_id(*post_id*) → Optional[*Post*]

Get a post by the ID

Parameters
post_id – Post ID

Returns
Optional[*Post*]

get_tab_by_id(*tab_id*) → Optional[*Tab*]

Get tab by their ID.

Parameters
tab_id – The tab ID

Returns
Optional[*Tab*]

get_video_by_url(*video_url*) → Optional[*Video*]

Get a video by the direct URL.

Parameters
video_url – URL of the video

Returns
Optional[*Video*]

static process_community_artists_and_tabs(*community*, *response_text_as_dict*)

Process the community artists and tabs and add them to their respective communities.

Parameters

- **community** – Community object
- **response_text_as_dict** – Response text of connection to endpoint but as a dict.

property public_weverse_key: str

Hard-coded weverse key

stop()

Stop the hook loop.

CHAPTER

TWO

CLIENTS

2.1 WeverseClientSync

class Weverse.**WeverseClientSync**(***kwargs*)

Synchronous Weverse Client that Inherits from *WeverseClient*.

Parameters
kwargs – Same as *WeverseClient*.

Attributes are the same as *WeverseClient*.

check_new_user_notifications()

Checks if there is a new user notification, updates the cache, and returns if there was.

Returns
(bool) Whether there is a new notification.

This endpoint has been acting a bit off and not producing accurate results. It would be recommended to instantly get new notifications with update_cache_from_notification instead.

check_token_works()

Check if a token is invalid.

Returns
(bool) True if the token works.

create_communities()

Get and Create the communities the logged in user has access to.

create_community_artists_and_tabs()

Create the community artists and tabs and add them to their respective communities.

create_media(*community:* Community)

Paginate through a community's media and add it to object cache.

Parameters
community – *Community* the posts exist under.

create_post(*community:* Community, *post_id*) → *Post*

Create a post and update the cache with it. This is meant for an individual post.

Parameters

- **community** – *Community* the post was created under.
- **post_id** – The id of the post we are needing to fetch.

create_posts(*community: Community*, *next_page_id: int = None*)

Paginate through a community's posts and add it to object cache.

Parameters

- **community** – *Community* the posts exist under.
- **next_page_id** (*[OPTIONAL]*) – Next Page ID (Weverse paginates posts).

fetch_announcement(*community_id: int*, *announcement_id: int*) → Optional[*Announcement*]

Receive announcement object based on announcement id.

Parameters

- **community_id** – The ID of the community the media belongs to.
- **announcement_id** – The ID of the announcement to fetch.

Returns

Announcement or NoneType

fetch_artist_comments(*community_id*, *post_id*)

Fetches the artist comments on a post.

Parameters

- **community_id** – Community ID the post is on.
- **post_id** – Post ID to fetch the artist comments of.

Returns

List[*Comment*]

fetch_comment_body(*community_id*, *comment_id*)

Fetches a comment from its ID.

Parameters

- **community_id** – The ID of the community the comment belongs to.
- **comment_id** – The ID of the comment to fetch.

Returns

(str) Body of the comment.

fetch_media(*community_id*, *media_id*)

Receive media object based on media id.

Parameters

- **community_id** – The ID of the community the media belongs to.
- **media_id** – The ID of the media to fetch.

Returns

Media or NoneType

get_user_notifications()

Get a list of updated user notification objects.

Returns

List[*Notification*]

start(*create_old_posts=False*, *create_notifications=True*, *create_media=False*)

Creates internal cache.

This is the main process that should be run.

Parameters

- **create_old_posts** – (bool) Whether to create cache for old posts.
- **create_notifications** – (bool) Whether to create/update cache for old notifications.
- **create_media** – (bool) Whether to create/update cache for old media.

Raises
Weverse.error.InvalidToken If the token was invalid.

Raises
Weverse.error.BeingRateLimited If the client is being rate-limited.

Raises
Weverse.error.LoginFailed Login process had failed.

Raises
Weverse.error.InvalidCredentials If the user credentials were invalid or not provided.

translate(*post_or_comment_id*, *is_post=False*, *is_comment=False*, *p_obj=None*, *community_id=None*)

Translates a post or comment, must set post or comment to True.

Parameters

- **post_or_comment_id** – A post or comment ID.
- **is_post** (*[OPTIONAL]*) – If we passed in a post.
- **is_comment** (*[OPTIONAL]*) – If we passed in a comment
- **p_obj** (*[OPTIONAL]*) – The object we are looking to translate
- **community_id** (*[OPTIONAL]*) – The community id the post/comment was made under.

Returns
(str) Translated message or NoneType

update_cache_from_notification() → List[*Notification*]

Grab a new post based from new notifications and add it to cache.

Will also return the new notifications found.

Returns
List[*models.Notification*]

2.2 WeverseClientAsync

class Weverse.**WeverseClientAsync**(*loop=<_UnixSelectorEventLoop running=False closed=False debug=False>*, ***kwargs*)

Asynchronous Weverse Client that Inherits from *WeverseClient*.

Parameters

- **loop** – Asyncio Event Loop
- **kwargs** – Same as *WeverseClient*.

loop

Asyncio Event Loop

Attributes are the same as :ref:`WeverseClient`.

async check_new_user_notifications() → bool

Checks if there is a new user notification, updates the cache, and returns if there was.

This is a coroutine and must be awaited.

Returns
(bool) Whether there is a new notification.

This endpoint has been acting a bit off and not producing accurate results. It would be recommended to instantly get new notifications with update_cache_from_notification instead.

async check_token_works() → bool

Check if a token is invalid.

This is a coroutine and must be awaited.

Returns
(bool) True if the token works.

property cookies: Optional[dict]

Get the user's cookies in order to access media.

async create_communities()

Get and Create the communities the logged in user has access to.

This is a coroutine and must be awaited.

async create_community_artists_and_tabs(*specific_community_ids: List[int] = None*)

Create the community artists and tabs and add them to their respective communities.

Parameters
specific_community_ids – List[int] Will only do this list of community ids from the already existing communities.

This is a coroutine and must be awaited.

async create_media(*community:* Community)

Paginate through a community's media and add it to object cache.

Parameters
community – *Community* the posts exist under.

async create_post(*community:* Community, *post_id*) → *Post*

Create a post and update the cache with it. This is meant for an individual post.

This is a coroutine and must be awaited.

Parameters

- **community** – *Community* the post was created under.
- **post_id** – The id of the post we are needing to fetch.

async create_posts(*community:* Community, *next_page_id: int = None*)

Paginate through a community's posts and add it to object cache.

This is a coroutine and must be awaited.

Parameters

- **community** – *Community* the posts exist under.
- **next_page_id** (*[OPTIONAL]*) – Next Page ID (Weverse paginates posts).

async download_video_stream(*video_stream_obj: VideoStream*, *output_file_path*)

Download a video stream to a local folder.

Parameters

- **video_stream_obj** (*VideoStream*) –
- **output_file_path** (*str*) – Full file path with file extension.

Return type
Returns False if no community id is found with the *VideoStream* object.

async fetch_announcement(*community_id: int*, *announcement_id: int*) → Optional[*Announcement*]

Receive announcement object based on announcement id.

This is a coroutine and must be awaited.

Parameters

- **community_id** – The ID of the community the media belongs to.
- **announcement_id** – The ID of the announcement to fetch.

Returns
Announcement or NoneType

async fetch_artist_comments(*community_id*, *post_id*)

Fetches the artist comments on a post.

This is a coroutine and must be awaited.

Parameters

- **community_id** – Community ID the post is on.
- **post_id** – Post ID to fetch the artist comments of.

Returns
List[*Comment*]

async fetch_comment_body(*community_id*, *comment_id*) → str

Fetches a comment from its ID.

This is a coroutine and must be awaited.

Parameters

- **community_id** – The ID of the community the comment belongs to.
- **comment_id** – The ID of the comment to fetch.

Returns
(str) Body of the comment.

async fetch_media(*community_id*, *media_id*) → Optional[*Media*]

Receive media object based on media id.

This is a coroutine and must be awaited.

Parameters

- **community_id** – The ID of the community the media belongs to.

- **media_id** – The ID of the media to fetch.

Returns
Media or NoneType

async follow_all_communities()

Follow all communities on Weverse

async follow_community(*community_id: Union[int, str]*, *attempts: int = 0*)

Follow a community

Parameters

- **community_id** – Union[int, str] The community ID to follow.
- **attempts** – int The number of attempts for choosing a nickname after error.

async get_all_community_ids() → List[int]

Get all the communities on Weverse.

Returns
List[int] A list of community ids

async get_cookies(*video_url_without_drm_type*) → Optional[dict]

Get the user's cookies in order to access media.

Parameters
video_url_without_drm_type – EX: https://weversewebapi.weverse.io/wapi/v1/communities/2/videos/4093

Returns
Optional[dict] A dictionary containing a signed cookie.

async get_user_notifications()

Get a list of updated user notification objects.

This is a coroutine and must be awaited.

Returns
List[*Notification*]

async run_blocking_code(*funcs*, **args*, ***kwargs*) → list

Run blocking code safely in a new thread. DO NOT pass in an asynchronous function. If an asynchronous function has blocking code, the event loop will also block. There were several attempts made to make it compatible with asynchronous functions, but it was a headache to work with.

Parameters

- **funcs** – The blocking function that needs to be called. May also pass in a list of functions with the 0th index as the callable function, the 1st index as the args for that function, and the 2nd index as the kwargs for that function.
- **args** – The args to pass into the blocking function.
- **kwargs** – The keyword args to pass into the blocking function.

Returns
List of results in no particular order. Make sure the output can be managed with no specific order.

async start(*create_old_posts=False*, *create_notifications=True*, *create_media=False*, *follow_new_communities=True*)

Creates internal cache.

This is the main process that should be run.

This is a coroutine and must be awaited.

Parameters

- **create_old_posts** – (bool) Whether to create cache for old posts.
- **create_notifications** – (bool) Whether to create/update cache for old notifications.
- **create_media** – (bool) Whether to create/update cache for old media.
- **follow_new_communities** – bool Check for new communities and automatically follow them.

Raises
Weverse.error.InvalidToken If the token was invalid.

Raises
Weverse.error.BeingRateLimited If the client is being rate-limited.

Raises
Weverse.error.LoginFailed Login process had failed.

Raises
asyncio.exceptions.TimeoutError Waited too long for a login.

Raises
Weverse.error.InvalidCredentials If the user credentials were invalid or not provided.

async translate(*post_or_comment_id*, *is_post=False*, *is_comment=False*, *p_obj=None*, *community_id=None*)

Translates a post or comment, must set post or comment to True.

This is a coroutine and must be awaited.

Parameters

- **post_or_comment_id** – A post or comment ID.
- **is_post** (*[OPTIONAL]*) – If we passed in a post.
- **is_comment** (*[OPTIONAL]*) – If we passed in a comment
- **p_obj** (*[OPTIONAL]*) – The object we are looking to translate
- **community_id** (*[OPTIONAL]*) – The community id the post/comment was made under.

Returns
(str) Translated message or NoneType

async update_cache_from_notification() → List[*Notification*]

Grab a new post based from new notifications and add it to cache.

Will also return the new notifications found.

This is a coroutine and must be awaited.

Returns
List[*models.Notification*]

CHAPTER

THREE

MODELS

3.1 Community

class Weverse.models.**Community**(***kwargs*)

A Community object that represents a Weverse Community.

It is not suggested to create a Community manually, but rather through the following method: *Weverse.objects.create_community_objects*

The information retrieved on a Community is directly from the Weverse API and altered to fit this class.

x == y

Checks if two Communities have the same ID.

x != y

Checks if two Communities do not have the same ID.

str(x)

Returns the Community's name.

Parameters

- **id** (int) – The Community ID.
- **name** (str) – The Community Name.
- **description** (str) – Description of the Community.
- **member_count** (int) – Amount of members in the community.
- **home_banner** (str) – Direct Image URL to the home banner.
- **icon** (str) – Direct Image URL to the Icon.
- **Banner** (str) – Direct Image URL to the Banner.
- **full_name** (str) – Full Name of the Community.
- **fc_member** (*bool*) – If a special membership is required to join.
- **show_member_count** (*bool*) – If the member count is visible.

id

The Community ID.

Type
int

name

The Community Name.

Type
str

description

Description of the Community.

Type
str

member_count

Amount of members in the community.

Type
int

home_banner

Direct Image URL to the home banner.

Type
str

icon

Direct Image URL to the Icon.

Type
str

Banner

Direct Image URL to the Banner.

Type
str

full_name

Full Name of the Community.

Type
str

fc_member

If a special membership is required to join.

Type
bool

show_member_count

If the member count is visible.

Type
bool

artists

List of artists the community has.

Type
List[*Artist*]

tabs

The Tabs the community has.

Type
List[*Tab*]

3.2 Notification

class Weverse.models.**Notification**(***kwargs*)

A Media object that represents a Weverse Media Post.

It is not suggested to create a Notification object manually, but rather through the following method: *Weverse.objects.create_notification_objects*

The information retrieved on a Notification is directly from the Weverse API and altered to fit this class.

x == y

Checks if two Notifications have the same ID.

x != y

Checks if two Notifications do not have the same ID.

Parameters

- **id** (*int*) – The id of the notification.
- **message** (*str*) – The message of the notification.
- **bold_element** (*str*) – The bolded element in the notification.
- **community_id** (*int*) – The community id associated with the notification.
- **community_name** (*str*) – The community name associated with the notification.
- **contents_type** (*str*) – The type of post it is.
- **contents_id** (*int*) – The id of the content post.
- **notified_at** – The time the notification was triggered.
- **icon_image_url** (*str*) – Icon image url of the notification.
- **thumbnail_image_url** (*str*) – Thumbnail url of the notification.
- **artist_id** (*int*) – The ID of the Artist that released the content.
- **is_membership_content** (*bool*) – If the content is exclusive to members.
- **is_web_only** (*bool*) – Whether the notification is only available directly on the website.
- **platform** (*str*) – The platform of the notification.

id

The id of the notification.

Type
int

`message`
The message of the notification.

Type
str

`bold_element`
The bolded element in the notification.

Type
str

`community_id`
The community id associated with the notification.

Type
int

`community_name`
The community name associated with the notification.

Type
str

`contents_type`
The type of post it is.

Type
str

`contents_id`
The id of the content post.

Type
int

`notified_at`
The time the notification was triggered.

`icon_image_url`
Icon image url of the notification.

Type
str

`thumbnail_image_url`
Thumbnail url of the notification.

Type
str

`artist_id`
The ID of the Artist that released the content.

Type
int

`is_membership_content`
If the content is exclusive to members.

Type
bool

is_web_only

Whether the notification is only available directly on the website.

Type
bool

platform

The platform of the notification.

Type
str

3.3 Photo

class Weverse.models.**Photo**(***kwargs*)

A Photo object that represents a Weverse Photo that belongs to media or a post.

It is not suggested to create a Photo manually, but rather through the following method: *Weverse.objects.create_photo_objects*

The information retrieved on a Photo is directly from the Weverse API and altered to fit this class.

x == y

Checks if two Photo objects have the same ID.

x != y

Checks if two Photo objects do not have the same ID.

str(x)

Returns the file name.

Parameters

- **id** (*int*) – The ID of the photo.
- **content_index** (*int*) – Index the photo is in from a bundle of photos.
- **thumbnail_img_url** (*str*) – The thumbnail image link.
- **thumbnail_img_width** (*str*) – The original image width.
- **thumbnail_img_height** (*str*) – The thumbnail image height.
- **original_img_url** (*str*) – The original image link.
- **original_img_width** (*str*) – The original image width.
- **original_img_height** (*str*) – The original image height.
- **file_name** (*str*) – File name of the photo.

id

The ID of the photo.

Type
int

`media_id`

The media ID of the photo (if there is one).

Type
Optional[int]

`content_index`

Index the photo is in from a bundle of photos.

Type
int

`thumbnail_img_url`

The thumbnail image link.

Type
str

`thumbnail_img_width`

The original image width.

Type
str

`thumbnail_img_height`

The thumbnail image height.

Type
str

`original_img_url`

The original image link.

Type
str

`original_img_width`

The original image width.

Type
str

`original_img_height`

The original image height.

Type
str

`file_name`

File name of the photo.

Type
str

`post`

The Post Object the photo belongs to.

Type
Post

3.4 Video

class Weverse.models.**Video**(***kwargs*)

A Video object that represents a Weverse Video that belongs to media or a post.

It is not suggested to create a Video manually, but rather through the following method: *Weverse.objects.create_video_objects*

The information retrieved on a Video is directly from the Weverse API and altered to fit this class.

Videos do not have unique IDs.

x == y

Check if the Video URL and Post are the same.

x != y

Check if the Video objects are not equal.

str(x)

Returns the Video URL.

len(x)

Returns the length of the video in seconds.

Parameters

- **video_url** (*int*) – Direct URL to the video.
- **thumbnail_url** (*str*) – URL of the thumbnail.
- **thumbnail_width** (*int*) – Width of the thumbnail
- **thumbnail_height** (*int*) – Height of the thumbnail.
- **length** (*int*) – Duration of the video in seconds.

video_url

Direct URL to the video.

Type
int

thumbnail_url

URL of the thumbnail.

Type
str

thumbnail_width

Width of the thumbnail

Type
int

thumbnail_height

Height of the thumbnail.

Type
int

playtime

Duration of the video in seconds.

Type
int

post

The Post Object the video belongs to.

Type
Optional[*Post*]

3.5 VideoStream

..autoclass:: Weverse.models.VideoStream

members

3.6 Artist

class Weverse.models.**Artist**(***kwargs*)

An Artist object that represents a Weverse Artist that belongs in a community.

It is not suggested to create an Artist manually, but rather through the following method: *Weverse.objects.create_artist_objects*

The information retrieved on an Artist is directly from the Weverse API and altered to fit this class.

x == y

Checks if two Artists have the same ID.

x != y

Checks if two Artists do not have the same ID.

str(x)

Returns the Artist's primary name.

Parameters

- **id** (int) – The Artist ID.
- **community_user_id** (int) – Artist's ID in the community.
- **name** (str) – The Primary Artist Name.
- **list_name** (list) – A list of names for the Artist.
- **is_online** (bool) – Whether the Artist is currently online
- **profile_nick_name** (str) – Artist nickname.
- **profile_img_path** (str) – Image URL for the Artist's profile.
- **is_birthday** (bool) – Whether it is the Artist's birthday.
- **group_name** (str) – The group name the Artist is associated with.
- **max_comment_count** (int) – The maximum amount of comments this Artist can post.

- **community_id** (int) – The ID of the community this Artist object was selected from.
- **is_enabled** (bool) – If the Artist account is enabled.
- **has_new_to_fans** (bool) – If the Artist has a new post for fans.
- **has_new_private_to_fans** (bool) – If the Artist has a new private post for fans.
- **to_fan_last_id** (int) – The latest tofan post ID.
- **to_fan_last_created_at** – When the artist's last tofan post was created.
- **to_fan_last_expire_in** – When the artist's last tofan post expires.
- **birthday_img_url** (str) – A direct image url to the artist's birthday image.
- **community** (Community) – The community the Artist is in.
- **posts** (list) – A list of posts the Artist has.

id

The Artist ID.

Type
int

community_user_id

Artist's ID in the community.

Type
int

name

The Primary Artist Name.

Type
str

list_name

A list of names for the Artist.

Type
list

is_online

Whether the Artist is currently online

Type
bool

profile_nick_name

Artist nickname.

Type
str

profile_img_path

Image URL for the Artist's profile.

Type
str

`is_birthday`

Whether it is the Artist's birthday.

Type
bool

`group_name`

The group name the Artist is associated with.

Type
str

`max_comment_count`

The maximum amount of comments this Artist can post.

Type
int

`community_id`

The ID of the community this Artist object was selected from.

Type
int

`is_enabled`

If the Artist account is enabled.

Type
bool

`has_new_to_fans`

If the Artist has a new post for fans.

Type
bool

`has_new_private_to_fans`

If the Artist has a new private post for fans.

Type
bool

`to_fan_last_id`

The latest tofan post ID.

Type
int

`to_fan_last_created_at`

When the artist's last tofan post was created.

`to_fan_last_expire_in`

When the artist's last tofan post expires.

`birthday_img_url`

A direct image url to the artist's birthday image.

Type
str

community

The community the Artist is in.

Type
Community

posts

A list of posts the Artist has.

Type
list

3.7 Comment

class Weverse.models.**Comment**(***kwargs*)

A Comment object that represents a Weverse Comment that belongs to an Artist.

It is not suggested to create a Comment manually, but rather through the following method: *Weverse.objects.create_comment_objects*

The information retrieved on a Comment is directly from the Weverse API and altered to fit this class.

x == y

Checks if two Comments have the same ID.

x != y

Checks if two Comments do not have the same ID.

str(x)

Returns the comment's body.

Parameters

- **id** (int) – The ID of the comment.
- **body** (str) – The comment content AKA the body of the message.
- **comment_count** (int) – Amount of comments inside of this comment (replies).
- **like_count** (int) – Amount of likes on the comment.
- **has_my_like** (bool) – Whether the client has liked the comment.
- **is_blind** (bool) – NOT SURE WHAT THIS IS
- **post_id** (int) – The Post ID that the comment was created under.
- **created_at** – The time the comment was created.
- **updated_at** – The time the comment was updated.

id

The ID of the comment.

Type
int

body

The comment content AKA the body of the message.

Type
str

comment_count

Amount of comments inside of this comment (replies).

Type
int

like_count

Amount of likes on the comment.

Type
int

has_my_like

Whether the client has liked the comment.

Type
bool

is_blind

NOT SURE WHAT THIS IS

Type
bool

post_id

The Post ID that the comment was created under.

Type
int

created_at

The time the comment was created.

updated_at

The time the comment was updated.

post

The Post Object the comment belongs to.

Type
Post

3.8 Post

class Weverse.models.**Post**(***kwargs*)

A Post object that represents a Weverse Post.

It is not suggested to create a Post manually, but rather through the following method: *Weverse.objects.create_post_objects*

The information retrieved on a Post is directly from the Weverse API and altered to fit this class.

`x == y`
: Checks if two Post objects have the same ID.

`x != y`
: Checks if two Post objects do not have the same ID.

`str(x)`
: Returns the Post body message.

`len(x)`
: Returns the amount of images (not videos) available.

Parameters

- **id** (*int*) – The ID of the post.
- **community_tab_id** (*int*) – The tab the post is under.
- **type** (*str*) – The type of Post.
- **body** (*str*) – Body Message on the Post.
- **comment_count** (*int*) – Current amount of comments on the Post
- **like_count** (*int*) – Current amount of likes on the Post
- **max_comment_count** (*int*) – Maximum amount of comments that can be on the Post
- **has_my_like** (*bool*) – If the client user has the post liked.
- **has_my_bookmark** (*bool*) – If the client user has the post bookmarked.
- **created_at** – When the post was created
- **updated_at** – When the post was last modified.
- **is_locked** (*bool*) – Whether the post is locked.
- **is_blind** (*bool*) – Whether the post is visible?? Unknown
- **is_active** (*bool*) – Whether the post is active.
- **is_private** (*bool*) – Whether the post is private.
- **photos** (List[*Photo*]) – A list of photos under the post.
- **videos** (List[*Video*]) – A list of videos under the post.
- **is_hot_trending_post** (*bool*) – If the post is trending.
- **is_limit_comment** (*bool*) – If the comments are limited.
- **artist_comments** (List[*Comment*]) – The Artist comments under the post.
- **community_artist_id** (*int*) – The Community Artist ID that made the post.
- **artist_id** (*int*) – The ID of the Artist that made the post.

`id`
: The ID of the post.

Type
int

`community_tab_id`

The tab the post is under.

Type
int

`type`

The type of Post.

Type
str

`body`

Body Message on the Post.

Type
str

`comment_count`

Current amount of comments on the Post

Type
int

`like_count`

Current amount of likes on the Post

Type
int

`max_comment_count`

Maximum amount of comments that can be on the Post

Type
int

`has_my_like`

If the client user has the post liked.

Type
bool

`has_my_bookmark`

If the client user has the post bookmarked.

Type
bool

`created_at`

When the post was created

`updated_at`

When the post was last modified.

`is_locked`

Whether the post is locked.

Type
bool

`is_blind`

Whether the post is visible?? Unknown

Type
bool

`is_active`

Whether the post is active.

Type
bool

`is_private`

Whether the post is private.

Type
bool

`photos`

A list of photos under the post.

Type
List[*Photo*]

`videos`

A list of videos under the post.

Type
List[*Video*]

`is_hot_trending_post`

If the post is trending.

Type
bool

`is_limit_comment`

If the comments are limited.

Type
bool

`artist_comments`

The Artist comments under the post.

Type
List[*Comment*]

`community_artist_id`

The Community Artist ID that made the post.

Type
int

`artist_id`

The ID of the Artist that made the post.

Type
int

artist

The Artist Object the post belongs to.

Type
Artist

3.9 Tab

class Weverse.models.**Tab**(*tab_id=None*, *name=None*)

A Post object that represents a Weverse Post.

It is not suggested to create a Post manually, but rather through the following method: *Weverse.objects.create_post_objects*

The information retrieved on a Post is directly from the Weverse API and altered to fit this class.

x == y

Checks if two Tab objects have the same ID.

x != y

Check if the IDs of the Tab objects are not equal.

str(x)

Returns the Tab name.

Parameters

- **tab_id** (*[Optional] int*) – The ID of the Tab.
- **name** (*[Optional] str*) – The Tab name.

id

The ID of the Tab.

Type
int

name

The Tab name.

Type
str

3.10 Media

class Weverse.models.**Media**(***kwargs*)

A Media object that represents a Weverse Media Post.

It is not suggested to create a Media object manually, but rather through the following method: *Weverse.objects.create_media_object*

The information retrieved on Media is directly from the Weverse API and altered to fit this class.

x == y

Checks if two Media objects have the same ID.

`x != y`

Checks if two Media objects do not have the same ID.

Parameters

- **id** (*int*) – ID of the Media post.
- **community_id** (*int*) – ID of the Community the media post was made in.
- **body** (*str*) – The media content AKA the body of the message.
- **type** (*str*) – The type of media post it is.
- **thumbnail_path** (*str*) – The (url??) of the thumbnail.
- **title** (*str*) – The title of the media post.
- **level** – The level of access the media post is categorized under.
- **video_link** (*str*) – The video link supplied under the media post.
- **youtube_id** (*str*) – The youtube video ID.

`id`

ID of the Media post.

Type
int

`community_id`

ID of the Community the media post was made in.

Type
int

`body`

The media content AKA the body of the message.

Type
str

`type`

The type of media post it is.

Type
str

`thumbnail_path`

The (url??) of the thumbnail.

Type
str

`title`

The title of the media post.

Type
str

`level`

The level of access the media post is categorized under.

video_link

The video link supplied under the media post.

Type
str

youtube_id

The youtube video ID.

Type
str

photos

A list of photos under the media post.

Type
List[*Photo*]

videos

A list of videos under the media post.

Type
List[*Video*]

3.11 Announcement

class Weverse.models.**Announcement**(***kwargs*)

An Announcement object that represents a Weverse Notice for a Community.

It is not suggested to create an Announcement manually, but rather through the following method: `Weverse.objects.create_announcement_objects`

The information retrieved on a Post is directly from the Weverse API and altered to fit this class.

x == y

Checks if two Announcement objects have the same ID.

x != y

Checks if two Announcement objects do not have the same ID.

str(x)

Returns the Announcement content.

Parameters

- **id** (*int*) – The ID of the post.
- **communityId** (*int*) – The Community ID.
- **title** (*str*) – The title of the announcement notice.
- **content** (*str*) – The HTML body of the page notice.
- **createdAt** (*str*) – Timestamp with the date of when the announcement was created.
- **exposedAt** (*str*) – Timestamp with the date of when the announcement was released.
- **categoryId** (*int*) – Category that the announcement belongs to (used for paginating or quick endpoint access)

- **fcOnly** (*bool*) – If only premium members have access to the announcement.

id

The ID of the post.

Type
int

community_id

The Community ID.

Type
int

title

The title of the announcement notice.

Type
str

html_content

The HTML body of the page notice.

Type
str

created_at

Timestamp with the date of when the announcement was created.

Type
str

exposed_at

Timestamp with the date of when the announcement was released.

Type
str

category_id

Category that the announcement belongs to (used for paginating or quick endpoint access)

Type
int

fc_only

If only premium members have access to the announcement.

Type
bool

image_url

An image url if one is present.

Type
Optional[str]

content

Body Content without the HTML tags.

Type
str

CHAPTER

FOUR

MODEL CREATION

Weverse.objects.**create_announcement_object**(*announcement_info: dict*) → *Announcement*

Creates and returns an announcement object

Parameters
announcement_info – Announcement information from endpoint.

Returns
Announcement

Weverse.objects.**create_artist_objects**(*current_artists: list*) → list

Creates artist objects based on a list of information sent in and returns the objects.

Parameters
current_artists – Artist information received from endpoint.

Returns
List[*Artist*]

Weverse.objects.**create_comment_objects**(*current_comments: list*) → list

Creates & Returns comment objects based on a list of comments

Parameters
current_comments – comment information from endpoint.

Returns
List[*Comment*]

Weverse.objects.**create_community_objects**(*current_communities: list*, *already_existing: Optional[Dict[int,* Community*]] = None*) → dict

Creates community objects based on a list of information sent in and returns the objects.

Parameters

- **current_communities** – A list of communities from the endpoint being followed. Community information received from endpoint.
- **already_existing** – List[*Community*] Already existing Communities that should not be replaced.

Returns
dict{community id: *Community*}

Weverse.objects.**create_media_object**(*media_info: dict*, *ignore_photos=False*, *ignore_videos=False*) → *Media*

Creates and returns a media object

Parameters

- **media_info** – media information from endpoint.
- **ignore_photos** – Whether to ignore the photos that belong in the media object. (Other methods can create it themselves.)
- **ignore_videos** – Whether to ignore the videos that belong in the media object. (Other methods can create it themselves.)

Returns
Media

`Weverse.objects.`**`create_notification_objects`**(*current_notifications: list*) → list

Creates notification objects based on a list of information sent in and returns the objects.

Parameters
current_notifications – Notification information received from endpoint.

Returns
List[*Notification*]

`Weverse.objects.`**`create_photo_objects`**(*current_photos: list*) → list

Creates & Returns photo objects based on a list of photos

Parameters
current_photos – photo information from endpoint.

Returns
List[*Photo*]

`Weverse.objects.`**`create_post_objects`**(*current_posts: list*, *community:* Community, *new=False*) → list

Creates post objects based on a list of posts sent in and the community and returns the objects.

Parameters

- **current_posts** – Post information received from endpoint.
- **community** – *Community* that the post belongs in.
- **new** – `bool` Whether or not the post is new.

Returns
List[*Post*]

`Weverse.objects.`**`create_tab_objects`**(*current_tabs: list*) → list

Creates tab objects based on a list of information sent in and returns the objects.

Parameters
current_tabs – Tab information received from endpoint.

Returns
List[*Tab*]

`Weverse.objects.`**`create_video_objects`**(*current_videos: list*, *community_id=None*) → list

Creates & Returns video objects based on a list of videos.

Parameters

- **current_videos** – Video information from api endpoint.
- **community_id** – Community ID

Returns
List[*Video*]

Weverse.objects.**iterate_community_media_categories**(*all_media_categories: dict*) → [List[*Weverse.models.media.Media*], List[dict]]

Iterates through community media categories, creates Media posts and returns a list of them.

Parameters

all_media_categories – A dict containing media posts that are filtered by category.

Returns

[List[*Media*], List[dict]] A list of Video Media objects and a list of dicts containing photo media objects to later make own calls on to retrieve photos.

CHAPTER

FIVE

EXCEPTIONS

5.1 Invalid Token

exception Weverse.**InvalidToken**

An Exception Raised When an Invalid Token was Supplied.

5.2 Page Not Found

exception Weverse.**PageNotFound**(*url*)

An Exception Raised When a link was not found.

Parameters

url (str) – The link that was not found.

5.3 Being Rate Limited

exception Weverse.**BeingRateLimited**

An Exception Raised When Weverse Is Being Rate-Limited.

CHAPTER

SIX

GET ACCOUNT TOKEN

Your account token is needed (Will need to be updated about every 6 months iirc).

Note that it is now possible to log-in with a username and password to prevent manual updates.

In order to get your account token, go to https://www.weverse.io/ and Inspect Element (F12).

Then go to the *Network* tab and filter by *XHR*.

Then refresh your page (F5) and look for *info* or *me* under *XHR*.

Under Headers, scroll to the bottom and view the request headers.

You want to copy everything past *authorization: Bearer*.

For example, you may see (This is just an example):

```
authorization:  Bearer ABCDEFGHIJKLMNOPQRSTUVWXYZ
```

Then `ABCDEFGHIJKLMNOPQRSTUVWXYZ` would be your auth token for Weverse.

It is suggested to have the auth token as an environment variable.

IMPORTANT NOTE: Not all korean key-phrases may be logged. Scroll to the bottom of the Weverse page when you are logged in and click “English” to set the account language to English.

CHAPTER

SEVEN

ASYNCHRONOUS USAGE

```python
# Asynchronous
import asyncio
import aiohttp
from Weverse.error import InvalidToken
from Weverse.weverseasync import WeverseClientAsync

# THERE IS A MORE DETAILED EXAMPLE IN THE EXAMPLES FOLDER
# https://github.com/MujyKun/Weverse/blob/main/examples/asynchronous.py

token = "fake_token"  # REQUIRED
# THE EXAMPLE IN THE EXAMPLES FOLDER WILL SHOW YOU HOW TO LOGIN WITH A USERNAME AND␣
↪PASSWORD AND SET UP HOOKS.

# It is advised to pass in your own web session as it is not closed in Weverse
web_session = aiohttp.ClientSession()  # A session is created by default
weverse_client = WeverseClientAsync(authorization=token, verbose=True, loop=asyncio.get_
↪event_loop(),
                                    web_session=web_session)
try:
    # creates all the cache that is specified. If the create parameters are set to True,␣
↪they will take a very long time.
    await weverse_client.start(create_old_posts=True, create_media=True)
except InvalidToken:
    print("Invalid Token")
```

CHAPTER

EIGHT

SYNCHRONOUS USAGE

```python
# Synchronous
import requests
from Weverse.weversesync import WeverseClientSync
from Weverse.error import InvalidToken

# THERE IS A MORE DETAILED EXAMPLE IN THE EXAMPLES FOLDER
# https://github.com/MujyKun/Weverse/blob/main/examples/synchronous.py

token = "fake_token"  # REQUIRED
# THE EXAMPLE IN THE EXAMPLES FOLDER WILL SHOW YOU HOW TO LOGIN WITH A USERNAME AND␣
↪PASSWORD AND SET UP HOOKS.

# It is advised to pass in your own web session as it is not closed in Weverse
web_session = requests.Session()  # A session is created by default
weverse_client = WeverseClientSync(authorization=token, verbose=True)
try:
    # creates all the cache that is specified. If the create parameters are set to True,␣
↪they will take a very long time.
    weverse_client.start(create_old_posts=True, create_media=True)
except InvalidToken:
    print("Invalid Token")
```

CHAPTER

NINE

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PYTHON MODULE INDEX

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