
Python client for Degreed API Documentation

Release 0.4.1

Ronald Maravanyika

May 13, 2020

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PYTHON CLIENT FOR DEGREED API

The Degreed python package to leverage and connect to the Degreed API from python 3.

- Free software: Apache Software License 2.0
- Documentation: <https://degreedClient.readthedocs.io>.

1.1 Features

- Users Module
- Content Module (article, books, videos and courses)
- Provider Module
- Pathways Module
- Recommendations Module
- Required Learning Module
- Completions Module
- Certifiable skills Module
- Skill Plan Module
- Skills Rating Module
- Search terms Module
- Views Module
- Groups Module

1.2 Credits

This package was created with [Cookiecutter](#) and the [audreyr/cookiecutter-pypackage](#) project template.

This package was derived from [tonybaloney](#) Anthony Shaw's open source project for the pathgather python client.

INSTALLATION

2.1 Stable release

To install Python client for Degreed API, run this command in your terminal:

```
$ pip install degreed-client
```

This is the preferred method to install Python client for Degreed API, as it will always install the most recent stable release. After installing ensure that version 19.1.0 or greater is install, if not please upgrade your version.

If you don't have `pip` installed, this [Python installation guide](#) can guide you through the process.

2.2 From sources

The sources for Python client for Degreed API can be downloaded from the [Github repo](#).

You can either clone the public repository:

```
$ git clone git://github.com/Rmaravanyika/degreedClient
```

Or download the [tarball](#):

```
$ curl -OL https://github.com/Rmaravanyika/degreedClient/tarball/master
```

Once you have a copy of the source, you can install it with:

```
$ python setup.py install
```


To use Python client for Degreed API in a project:

```
from degreedClient import DegreedApiClient
```

The degreed api has got various modules which this client made available, however each module requires a specific scope for that module. The scope is something similar to this: `users:read` it may also look like this: `users_read` Degreed confirmed through their [documentation](#) that all methods will be supported, well at least for now but I recommend the first method of using a colon as a dimiliter.

To be able to use Degreed's api you will need the `client_id`, `client_secret` and also the `host`. The client id and client secret are given by Degreed Technical Solutions Specialist. The host has got a development host as well as production host. The hostname uses the format `degreed.com` and for betatest(development) it is in the format `betatest.degreed.com`. You get all these from Degreed. The API uses OAuth 2.0 protocol's Client Credentials Flow, you can get more information via [Degreed](#) official documentation.

3.1 101 usage

```
from degreedClient import DegreedApiClient
import yaml
from pprint import pprint

with open('.profile.yml', 'r') as profile_yaml:
    config = yaml.load(profile_yaml)

client = DegreedApiClient(config['host'], config['client_id'], config['client_secret']
↪), config['scope'] )
```

3.2 Users Module

3.2.1 Getting started with user module

```
from degreedClient import DegreedApiClient
from pprint import pprint
client = DegreedApiClient(...)

pprint(client.users.all())

# You can also get a single user via ID as an object
```

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```
# This means you can get all the user attributes
a_user = client.users.get('<ID>')
user_firstname = a_user.attributes.first_name

print(user_firstname)
```

3.3 Content Module

3.3.1 Content Management

```
from degreedClient import DegreedApiClient
from pprint import pprint
client = DegreedApiClient(...)

pprint(client.content.all())
```

API REFERENCE

4.1 Client object

The DegreedClient is used to connect to the API and it offers

Main module.

```
class degreedClient.client.DegreedApiClient(host, client_id, client_secret, scope,  
                                             proxy=None, skip_ssl_validation=False)
```

Main API client.

article

Learning Articles

Return type *degreedClient.articles.ArticleClient*

book

Learning Books

Return type *degreedClient.books.BookClient*

certifiablenesskill

Certifiable Skills

Return type *degreedClient.certifiable_skills.CertifiableSkillClient*

completion

Completions

Return type *degreedClient.completions.CompletionClient*

content

Learning Content

Return type *degreedClient.content.ContentClient*

course

Learning Courses

Return type *degreedClient.courses.CourseClient*

delete (*uri*)

get (*uri, params=None, data=None*)

get_paged (*uri, params=None, data=None*)

group

Groups

Return type *degreedClient.groups.GroupClient*

learnings
Required Learnings
Return type *degreedClient.required_learnings.RequiredLearningsClient*

login
Login
Return type *degreedClient.logins.LoginClient*

patch (*uri, data=None*)

pathway
Pathways
Return type *degreedClient.pathways.PathwayClient*

post (*uri, data=None*)

provider
Provider
Return type *degreedClient.providers.ProviderClient*

put (*uri, data=None*)

recommendation
Recommendations
Return type *degreedClient.recommendations.RecommendationClient*

results_per_page = 100

searchterm
Search Terms
Return type *degreedClient.search_terms.SearchTermClient*

skillplan
Skill Plans
Return type *degreedClient.skills_plan.SkillPlanClient*

skillrating
Skill Ratings
Return type *degreedClient.skills_ratings.SkillRatingClient*

theviews
Views of content
Return type *degreedClient.the_views.TheViewClient*

userfollower
User Followers
Return type *degreedClient.user_followers.UserFollowersClient*

users
Users
Return type *degreedClient.users.UserClient*

userskill
User Skills
Return type *degreedClient.user_skills.UserSkillClient*

video

Learning Videos

Return type *degreedClient.videos.VideoClient*

ACCESSORS

5.1 degreedClient.users module

class `degreedClient.users.UserClient` (*client*)

Bases: `object`

Users API object

all (*per_page=None, next_id=None*)

Gets all Users.

Parameters

- **per_page** (`int`) – Amount of content to per page. Max of 1.000
- **next_id** (`str`) – Supplied to retrieve the next batch of content.

Returns A list of users

Return type list of `degreedClient.models.user.User`

create (*employee_id, first_name, last_name, organization_email, password, permission_role, profile_visibility, full_name=None, bio=None, login_disabled=False, restricted=False, real_time_email_notification=False, daily_digest_email=False, weekly_email_digest=False*)

Create a user.

Parameters

- **employee_id** (`str`) – The ID of the user to update
- **first_name** (`str`) – The first name of the user
- **last_name** (`str`) – The last name of the user
- **organisation_email** (`str`) – The full name of the user
- **password** – Password used to login, minimum 8 characters, they must include at least one number and a capital letter.
- **permission_role** (`str`) – Either Admin, LearningProfessional, Manager or Member
- **profile_visibility** (`str`) – Visibility of the profile, can be Everyone, Organization or Private
- **full_name** (`str`) – The full name of the user
- **bio** (`str`) – Short biografie of the user, max len. 2000 chars.
- **login_disabled** (`bool`) – Ability for the user to login

- **restricted** (bool) – Restricts the user to change certain fields
- **real_time_email_notification** (bool) – Do they want to receive email notifications
- **daily_digest_email** (bool) – Sign up for the daily digest email
- **weekly_email_digest** (bool) – Sign up for the weekly digest email

Returns An instance *degreedClient.models.user.User*

Return type *degreedClient.models.user.User*

delete (*id*)

Delete a user by ID.

Parameters **id** (str) – The user ID

Returns None

Return type None

get (*id*)

Fetch a specific user by ID.

Parameters **id** (str) – The user id

Returns An instance *degreedClient.models.user.User*

Return type *degreedClient.models.user.User*

get_today_learnings (*id*)

Retrieves all today's learning for a specific user.

Parameters **id** (str) – The user id

Returns An instance *degreedClient.models.user.User*

Return type *degreedClient.models.user.User*

get_user_certifiable_skills (*id*)

Retrieves all certifiable skills for a specific user.

Parameters **id** (str) – The user id

Returns An instance *degreedClient.models.user.User*

Return type *degreedClient.models.user.User*

get_user_skills (*id*)

Retrieves all skills for a specific user.

scope: is user_skills:read

Parameters **id** (str) – The user id

Returns An instance *degreedClient.models.user.User*

Return type *degreedClient.models.user.User*

update (*id*, *employee_id=None*, *first_name=None*, *last_name=None*, *organization_email=None*, *password=None*, *permission_role=None*, *profile_visibility=None*, *full_name=None*, *bio=None*, *login_disabled=False*, *restricted=False*, *real_time_email_notification=False*, *daily_digest_email=False*, *weekly_email_digest=False*)

Update an existing user.

Parameters

- **id** (*str*) – The users id
- **employee_id** (*str*) – The ID of the user to update
- **first_name** (*str*) – The first name of the user
- **last_name** (*str*) – The last name of the user
- **organisation_email** (*str*) – The full name of the user
- **password** – Password used to login, minimum 8 characters, they must include at least one number and a capital letter.
- **permission_role** (*str*) – Either Admin, LearningProfessional, Manager or Member
- **profile_visibility** (*str*) – Visibility of the profile, can be Everyone, Organization or Private
- **full_name** (*str*) – The full name of the user
- **bio** (*str*) – Short biografie of the user, max len. 2000 chars.
- **login_disabled** (*bool*) – Ability for the user to login
- **restricted** (*bool*) – Restricts the user to change certain fields
- **real_time_email_notification** (*bool*) – Do they want to receive email notifications
- **daily_digest_email** (*bool*) – Sign up for the daily digest email
- **weekly_email_digest** (*bool*) – Sign up for the weekly digest email

Returns An instance *degreedClient.models.user.User*

Return type *degreedClient.models.user.User*

5.2 degreedClient.user_followers module

class *degreedClient.user_followers.UserFollowersClient* (*client*)

Bases: *object*

User Followers API.

all (*start_date=None, end_date=None, per_page=None, next_id=None*)

Gets all user followers.

Parameters

- **start_date** (*str*) – start date eg 2018-11-30 A maximum of 7 days apart between start_date and end_date
- **end_date** (*str*) – end date eg 2018-11-30
- **per_page** (*int*) – Get from page
- **next_id** (*str*) – Supplied to retrieve the next batch of user follower.

Returns A list of user followers

Return type list of *degreedClient.models.user_follower.UserFollower*

5.3 degreedClient.user_skills module

class `degreedClient.user_skills.UserSkillClient` (*client*)

Bases: `object`

User Skill API.

all (*start_date=None, end_date=None, per_page=None, next_id=None*)

Gets all users skills for the current organisation.

Parameters

- **start_date** (*str*) – start date eg 2018-11-30 A maximum of 7 days between *start_date* and *end_date*
- **end_date** (*str*) – end date eg 2018-11-30
- **per_page** (*int*) – Get from page
- **next_id** (*str*) – Supplied to retrieve the next batch of user skills.

Returns A list of user skills

Return type list of `degreedClient.models.user_skill.UserSkill`

5.4 degreedClient.content module

class `degreedClient.content.ContentClient` (*client*)

Bases: `object`

Content API.

all (*start_date=None, end_date=None, per_page=None, next_id=None*)

Gets all content.

Parameters

- **per_page** (*int*) – Amount of content to per page. Max of 1.000
- **next_id** (*str*) – Supplied to retrieve the next batch of content.
- **start_date** (*str*) – Content created from this date on
- **end_date** (*str*) – Content created till this date

Returns A list of content

Return type list of `degreedClient.models.content.Content`

5.5 degreedClient.articles module

class `degreedClient.articles.ArticleClient` (*client*)

Bases: `object`

Article Content API.

all (*per_page=None, next_id=None*)

Gets all articles.

Parameters

- **per_page** (str) – Amount of articles per page
- **next_id** – Supplied to retrieve the next batch of articles

Returns A list of articles

Return type list of *degreedClient.models.content.Article*

create (*external_id*, *title*, *url*, *num_words*, *summary=None*, *image_url=None*)
Create an article.

Parameters

- **external_id** (str) – The article's external id, is required
- **title** (str) – The article's title, is required
- **url** (str) – The article's url, is required
- **num_words** (int) – The article's number of words, is required
- **summary** (str) – The article's summary,
- **image_url** (str) – The article's image url

Returns An instance *degreedClient.models.content.Article*

Return type *degreedClient.models.content.Article*

delete (*id*)
Delete an article by ID.

Parameters **id** (str) – The article ID

Returns None

Return type None

get (*id*)
Fetch an article by ID.

Parameters **id** (str) – The article id

Returns An instance *degreedClient.models.content.Article*

Return type *degreedClient.models.content.Article*

update (*id*, *external_id=None*, *title=None*, *url=None*, *num_words=0*, *summary=None*, *image_url=None*)
Can update contents any of the values as the Create A New Article

Parameters

- **id** (str) – id of the article, is required
- **external_id** (str) – The article's external id
- **title** (str) – The article's title
- **url** (str) – The article's url
- **num_words** (int) – The article's number of words
- **summary** (str) – The article's summary
- **image_url** (str) – The article's image url

Returns An instance *degreedClient.models.content.Article*

Return type *degreedClient.models.content.Article*

5.6 degreedClient.books module

class `degreedClient.books.BookClient` (*client*)

Bases: `object`

Book Content API.

all (*per_page=None, next_id=None*)

Gets all books.

Parameters

- **per_page** (`str`) – Amount of books per page
- **next_id** – Supplied to retrieve the next batch of articles

Returns A list of books

Return type list of `degreedClient.models.content.Book`

create (*title, external_id, subtitle=None, author=None, pages=0, summary=None, obsolete=None, publish_date=None, language=None, i_s_b_n13=None*)

Create a Book.

Parameters

- **title** (`str`) – The book title, is required
- **external_id** (`str`) – The book's external id, is required
- **subtitle** (`str`) – The book's subtitle
- **author** (`str`) – The book's author
- **pages** (`int`) – Amount of pages
- **summary** (`str`) – Short summary of the book
- **obsolete** (`bool`) – If the book should be marked as obsolete
- **publish_date** (`str`) – Date that the book has been published
- **language** (`str`) – Language of the book
- **i_s_b_n13** (`str`) – Short summary of the book

Returns An instance `degreedClient.models.content.Book`

Return type `degreedClient.models.content.Book`

delete (*id*)

Delete an book by ID.

Parameters **id** (`str`) – The book ID

Returns `None`

Return type `None`

get (*id*)

Fetch a book by ID.

Parameters **id** (`str`) – The book id

Returns An instance `degreedClient.models.content.Book`

Return type `degreedClient.models.content.Book`

update (*id*, *title=None*, *external_id=None*, *subtitle=None*, *author=None*, *pages=0*, *summary=None*, *obsolete=None*, *publish_date=None*, *language=None*, *i_s_b_n13=None*)
Update a Book.

Parameters

- **id** (*str*) – The ID of the book to update
- **title** (*str*) – The book title, is required
- **external_id** (*str*) – The book's external id, is required
- **subtitle** (*str*) – The book's subtitle
- **author** (*str*) – The book's author
- **pages** (*int*) – Amount of pages
- **summary** (*str*) – Short summary of the book
- **obsolete** (*bool*) – If the book should be marked as obsolete
- **publish_date** (*str*) – Date that the book has been published
- **language** (*str*) – Language of the book
- **i_s_b_n13** (*str*) – Short summary of the book

Returns An instance *degreedClient.models.content.Book*

Return type *degreedClient.models.content.Book*

5.7 degreedClient.courses module

class *degreedClient.courses.CourseClient* (*client*)

Bases: *object*

Course Content API.

all (*per_page=None*, *next_id=None*)

Gets all Courses.

Parameters

- **per_page** (*str*) – Amount of content to per page. Max of 1.000
- **next_id** (*str*) – Supplied to retrieve the next batch of content.

Returns A list of content

Return type list of *degreedClient.models.content.Course*

create (*title*, *external_id*, *duration*, *duration_type*, *provider_code=None*, *cost_units=0*, *cost_unit_type=None*, *_format=None*, *difficulty=None*, *video_url=None*, *summary=None*, *url=None*, *obsolete=False*, *image_url=None*, *language=None*)

Create a Course.

Parameters

- **title** (*str*) – The course title, is required
- **external_id** (*str*) – The course's external id, is required
- **duration** (*int*) – Length of the course. Type is supplied with *duration-type*
- **duration_type** (*str*) – Seconds, Minutes, Hours or Days

- **provider_code** (str) – Unique provider code
- **cost_units** (int) – Units for the amount of cost
- **cost_unit_type** (str) – The cost unit type, can be any valuta
- **_format** (str) – Format the course is takes
- **difficulty** (str) – Describing the difficulty of taking the course
- **video_url** (str) – If the course has a video, supply it here
- **summary** (str) – Summary of the course
- **url** (str) – URL location where more information can be found
- **obsolete** (bool) – If the course should be marked as obsolete
- **image_url** (str) – Cover image of the course
- **language** (str) – Spoken language of the course

Returns An instance `degreedClient.models.content.Course`

Return type `degreedClient.models.content.Course`

delete (id)

Delete a Course by ID.

Parameters **id** (str) – The Course ID

Returns None

Return type None

get (id)

Fetch course by ID.

Parameters **id** (str) – The course id

Returns An instance `degreedClient.models.content.Course`

Return type `degreedClient.models.content.Course`

update (id, title=None, external_id=None, duration=0, duration_type=None, provider_code=None, cost_units=0, cost_unit_type=None, _format=None, difficulty=None, video_url=None, summary=None, url=None, obsolete=False, image_url=None, language=None)

Update a Course.

Parameters

- **id** (str) – The ID of the course to update
- **title** (str) – The course title, is required
- **external_id** (str) – The course's external id, is required
- **duration** (int) – Length of the course. Type is supplied with duration-type
- **duration_type** (str) – Seconds, Minutes, Hours or Days
- **provider_code** (str) – Unique provider code
- **cost_units** (int) – Units for the amount of cost
- **cost_unit_type** (str) – The cost unit type, can be any valuta
- **_format** (str) – Format the course is takes
- **difficulty** (str) – Describing the difficulty of taking the course

- **video_url** (str) – If the course has a video, supply it here
- **summary** (str) – Summary of the course
- **url** (str) – URL location where more information can be found
- **obsolete** (bool) – If the course should be marked as obsolete
- **image_url** (str) – Cover image of the course
- **language** (str) – Spoken language of the course

Returns An instance `degreedClient.models.content.Course`

Return type `degreedClient.models.content.Course`

5.8 degreedClient.videos module

class `degreedClient.videos.VideoClient` (*client*)

Bases: object

Video Content API.

all (*per_page=None, next_id=None*)

Gets all Videos.

Parameters

- **per_page** (int) – Amount of content to per page. Max of 1.000
- **next_id** (str) – Supplied to retrieve the next batch of content.

Returns A list of Videos

Return type list of `degreedClient.models.content.Video`

create (*external_id, title, duration, duration_type, summary=None, url=None, obsolete=None, image_url=None, language=None, publish_date=None*)

Create a Video Content.

Parameters

- **external_id** (str) – The course's external id, is required
- **title** (str) – The course title, is required
- **duration** (int) – Length of the course. Type is supplied with duration-type
- **duration_type** (str) – Seconds, Minutes, Hours or Days
- **summary** (str) – Summary of the video
- **url** (str) – URL location where more information can be found
- **obsolete** (bool) – If the course should be marked as obsolete
- **image_url** (str) – Cover image of the video
- **language** (str) – Spoken language of the video
- **publish_date** (str) – The date the video is published

Returns An instance `degreedClient.models.content.Video`

Return type `degreedClient.models.content.Video`

delete (*id*)

Delete a video by ID.

Parameters **id** (*str*) – The video ID**Returns** None**Return type** None**get** (*id*)

Fetch a video by ID.

Parameters **id** (*str*) – The video id**Returns** An instance *degreedClient.models.content.Video***Return type** *degreedClient.models.content.Video***update** (*id*, *external_id=None*, *title=None*, *duration=0*, *duration_type=None*, *summary=None*, *url=None*, *obsolete=None*, *image_url=None*, *language=None*, *publish_date=None*)

Update a Video Content.

Parameters

- **id** (*str*) – The ID of the video to update
- **external_id** (*str*) – The course's external id, is required
- **title** (*str*) – The course title, is required
- **duration** (*int*) – Length of the course. Type is supplied with *duration-type*
- **duration_type** (*str*) – Seconds, Minutes, Hours or Days
- **summary** (*str*) – Summary of the video
- **url** (*str*) – URL location where more information can be found
- **obsolete** (*bool*) – If the course should be marked as obsolete
- **image_url** (*str*) – Cover image of the video
- **language** (*str*) – Spoken language of the video
- **publish_date** (*str*) – The date the video is published

Returns An instance *degreedClient.models.content.Video***Return type** *degreedClient.models.content.Video*

5.9 degreedClient.completions module

class *degreedClient.completions.CompletionClient* (*client*)

Bases: object

Completion API object

all (*start_date*, *end_date*, *per_page=None*, *next_id=None*)

Gets all completions from start to end date.

Parameters

- **start_date** (*str*) – Get completions from this date on. (YYYY-MON-DAY) a maximum of 7 days between *start_date* and *end_date*
- **end_date** (*str*) – Get completions till this date. (YYYY-MON-DAY)

- **per_page** (str) – The amount of completions per page. Max. of 1000.
- **next_id** (str) – Supplied to retrieve the next batch of content.

Returns A list of completions

Return type list of *degreedClient.models.completion.Completion*

create (user_id, user_identifier_type, content_id, content_id_type, content_type, completed_at)
Create a new completion.

Parameters

- **user_id** (str) – Unique ID of the user who completed it required
- **user_identifier_type** (str) – Can be either UserId, Email, EmployeeId, AliasUid or AliasEmail. is required
- **content_id** (str) – Unique id identifying the content
- **content_id_type** (str) – Can be either ExternalId, Id or ContentUrl
- **content_type** (str) – Can be either Article, Book, Course, Event or Video is required
- **completed_at** (str) – Date when the completion was created is required

Returns An instance *degreedClient.models.completion.Completion*

Return type *degreedClient.models.completion.Completion*

delete (id)
Delete an book by ID.

Parameters **id** (str) – Completion ID to be delectes

Returns None

Return type None

get_user_completions (id)
Retrieves all completions for a specific user.

Parameters **id** (str) – The user id

Returns An instance *degreedClient.models.user.User*

Return type *degreedClient.models.user.User*

get_user_completions_by_email (email)
Retrieves all completions by passing the email.

Parameters **email** (str) – The user email

Returns An instance *degreedClient.models.user.User*

Return type *degreedClient.models.user.User*

update (id, user_id=None, user_identifier_type=None, content_id=None, content_id_type=None, content_type=None, completed_at=None)
Create a new completion.

Parameters

- **user_id** (str) – Unique ID of the user who completed it required
- **user_identifier_type** (str) – Can be either UserId, Email, EmployeeId, AliasUid or AliasEmail. is required

- **content_id** (*str*) – Unique id identifying the content
- **content_id_type** (*str*) – Can be either ExternalId, Id or ContentUrl
- **content_type** (*str*) – Can be either Article, Book, Course, Event or Video is required
- **completed_at** (*str*) – Date when the completion was created is required

Returns An instance `degreedClient.degredClient.models.completion.Completion`

Return type `degreedClient.degredClient.models.completion.Completion`

5.10 degreedClient.certifiable_skills module

class `degreedClient.certifiable_skills.CertifiableSkillClient` (*client*)

Bases: object

Certifiable skills API.

all (*per_page=None, next_id=None*)

Get all certifiable skills.

Parameters

- **per_page** (*int*) – Amount of certifiable skills per page. Max of 1.000
- **next_id** (*str*) – Supplied to retrieve the next batch of user skills.

Returns A list of required learnings

Return type list of `degreedClient.models.certifiable_skill.CertifiableSkill`

get (*id*)

Fetch a specific certifiable skill

Parameters **id** (*str*) – id used to get a specific certifiable skill

Returns An instance `degreedClient.models.certifiable_skill.CertifiableSkill`

Return type `degreedClient.models.certifiable_skill.CertifiableSkill`

5.11 degreedClient.groups module

class `degreedClient.groups.GroupClient` (*client*)

Bases: object

Groups API object

all (*per_page=None, next_id=None*)

Get all groups for the current organization

Parameters

- **per_page** (*int*) – Amount of groups to per page. Max of 1.000
- **next_id** – Supplied to retrieve the next batch of groups.

- **next_id** – str

Returns A list of groups

Return type list of *degreedClient.models.group.Group*

get (*id*)

Fetch a specific group for the current organization

Parameters **id** (str) – id used to get a specific group

Returns An instance *degreedClient.models.group.Group*

Return type *degreedClient.models.group.Group*

group_users_list (*id*)

Fetch a list of users which are a member of this group.

Parameters **id** (str) – id used to get a specific group

Returns An instance *degreedClient.models.group.Group*

Return type *degreedClient.models.group.Group*

5.12 degreedClient.pathways module

class *degreedClient.pathways.PathwayClient* (*client*)

Bases: object

Pathway API.

all (*start_date=None, end_date=None, per_page=None, next_id=None*)

Gets all pathways for the current organization.

Parameters

- **start_date** (str) – Get pathways modified from this date on. A maximum of 7 days between start_date and end_date
- **end_date** (str) – Get pathways modified till this date.
- **per_page** (int) – Amount of pathways per page. Max of 1.000
- **next_id** (str) – Supplied to retrieve the next batch of pathways.

Returns A list of pathways

Return type list of *degreedClient.models.pathway.Pathway*

get (*id*)

Fetch all data on a specific pathway.

Parameters **id** (str) – The pathway id

Returns An instance *degreedClient.models.pathway.Pathway*

Return type *degreedClient.models.pathway.Pathway*

get_pathway_collaborators (*id*)

Fetch all collaborators for the selected pathway

Parameters **id** (str) – The pathway id

Returns An instance *degreedClient.models.pathway.Collaborator*

Return type *degreedClient.models.pathway.Collaborator*

get_pathway_followers (*id*)

Fetch all followers for the selected pathway.

Parameters *id* (str) – The pathway id

Returns An instance *degreedClient.models.pathway.Follower*

Return type *degreedClient.models.pathway.Follower*

get_pathway_groups (*id*)

Fetch all groups for the selected pathway

Parameters *id* (str) – The pathway id

Returns An instance *degreedClient.models.pathway.GrpPathway*

Return type *degreedClient.models.pathway.GrpPathway*

get_pathway_tags (*id*)

Fetch all tags for the selected pathway

Parameters *id* (str) – The pathway id

Returns An instance *degreedClient.models.pathway.Tag*

Return type *degreedClient.models.pathway.Tag*

5.13 degreedClient.providers module

class *degreedClient.providers.ProviderClient* (*client*)

Bases: object

Providers API.

all (*per_page=None, next_id=None*)

Get all providers for the current organization.

Parameters

- **per_page** (int) – Amount of providers per page. Max of 1.000
- **next_id** (str) – Supplied to retrieve the next batch of groups.

Returns A list of providers

Return type list of *degreedClient.models.provider.Provider*

get (*id*)

Fetch a specific provider.

Parameters *id* (str) – The ID of the provider to retrieve

Returns An instance *degreedClient.models.provider.SpecificProvider*

Return type *degreedClient.models.provider.SpecificProvider*

get_provider_licence (*id*)

Fetch provider licences for a specific provider

Parameters *id* (str) – The unique id of the provider.

Returns An instance *degreedClient.models.provider.ProviderLicence*

Return type *degreedClient.models.provider.ProviderLicence*

5.14 degreedClient.recommendations module

class `degreedClient.recommendations.RecommendationClient` (*client*)

Bases: `object`

Recommendation API.

all (*start_date, end_date, per_page=None, next_id=None*)

Get all recommendations.

Parameters

- **start_date** (*str*) – Get recommendations from this date on. eg 2018-11-30 A a maximum of 7 days between *start_date* and *end_date*
- **end_date** (*str*) – Get recommendations till this date. eg 2018-11-30
- **per_page** (*int*) – Amount of recommendations per page. Max of 1.000
- **next_id** (*str*) – Supplied to retrieve the next batch of recommendations.

Returns A list of recommendations

Return type `list` of `degreedClient.models.recommendation.Recommendation`

5.15 degreedClient.skills_plan module

class `degreedClient.skills_plan.SkillPlanClient` (*client*)

Bases: `object`

Skills Plan API.

all (*per_page=None, next_id=None*)

Get all skill plans for the current organization.

Parameters

- **start_date** (*str*) – start date eg 2018-11-30 A maximum of 7 days part between *start_date* and *end_date*
- **end_date** (*str*) – end date eg 2018-11-30
- **per_page** (*int*) – Amount of providers per page. Max of 1.000
- **next_id** (*str*) – Supplied to retrieve the next batch of skill plans.

Returns A list of skill plans

Return type `list` of `degreedClient.models.skill_plan.SkillPlan`

get (*id*)

Fetch a skill plan by ID.

Parameters *id* (*str*) – The ID of the skill plan to retrieve

Returns An instance `degreedClient.models.skill_plan.SkillPlan`

Return type `degreedClient.models.skill_plan.SkillPlan`

get_skill_followers (*id*)

Fetch skill followers ID.

Parameters *id* (*str*) – The unique id of the skill plan.

Returns An instance `degreedClient.models.skill_plan.SkillFollower`

Return type `degreedClient.models.skill_plan.SkillFollower`

5.16 degreedClient.skills_ratings module

class `degreedClient.skills_ratings.SkillRatingClient` (*client*)

Bases: object

Skill Ratings API.

all (*start_date=None, end_date=None, per_page=None, next_id=None*)

Gets all skills ratings.

Parameters

- **start_date** (*str*) – start date eg 2018-11-30 A maximum of 7 days between the start_date and end_date
- **end_date** (*str*) – end date eg 2018-11-30
- **per_page** (*int*) – Amount of skill ratings per page. Max of 1.000.
- **next_id** (*str*) – Supplied to retrieve the next batch of groups.

Returns A list of skill ratings

Return type list of `degreedClient.models.skills_rating.SkillRating`

5.17 degreedClient.required_learnings module

class `degreedClient.required_learnings.RequiredLearningsClient` (*client*)

Bases: object

Required Learnings API.

all (*start_date, end_date, per_page=None, next_id=None*)

Gets all learning requirements.

Parameters

- **start_date** (*str*) – Get required learnings from this date on. eg 2018-11-30 start_date and end_date can only have a maximum of 7 days apart
- **end_date** (*str*) – Get required learnings till this date. eg 2018-11-30
- **per_page** (*int*) – Amount of required learnings per page. Max of 1.000
- **next_id** (*str*) – Supplied to retrieve the next batch of required learning.

Returns A list of required learnings

Return type list of `degreedClient.models.required_learning ReqLearning`

5.18 degreedClient.logins module

class `degreedClient.logins.LoginClient` (*client*)

Bases: `object`

Logins API.

all (*start_date, end_date, per_page=None, next_id=None*)

Get all logins for the current organization.

Parameters

- **start_date** (`str`) – Get logins from this date on. YYYY-MON-DAY A maximum of 7 days between `start_date` and `end_date`
- **end_date** (`str`) – Get logins till this date. YYYY-MON-DAY
- **per_page** (`int`) – Amount of logins to per page. Max of 1.000
- **next_id** (`str`) – Supplied to retrieve the next batch of groups.

Returns A list of logins

Return type `list of pathgather.models.login.Login`

MODELS

6.1 degreedClient.models.user module

```
class degreedClient.models.user.User (id, attributes, links, relationships=None, included=None)  
    Bases: object
```

6.2 degreedClient.models.user_follower module

```
class degreedClient.models.user_follower.UserFollower (id, attributes, links, relationships)  
    Bases: object  
class degreedClient.models.user_follower.UserFollowersAttribute (follower_employee_id, following_employee_id, followed_at=None)  
    Bases: object
```

6.3 degreedClient.models.user_skill module

```
class degreedClient.models.user_skill.UserSkill (id, attributes, links, relationships)  
    Bases: object  
class degreedClient.models.user_skill.UserSkillAttribute (employee_id, skill_id, skill_name, certifiable_skill_guid, followed_at=None)  
    Bases: object
```

6.4 degreedClient.models.content module

```
class degreedClient.models.content.Article (id, attributes=None, links=None)  
    Bases: object
```

```
class degreedClient.models.content.ArticleAttribute(title, summary, url, format=None, obsolete=None, image_url=None, language=None, num_words=0, provider_code=None, external_id=None, publish_date=None, created_at=None, modified_at=None)
```

Bases: object

```
class degreedClient.models.content.Book(id, attributes=None, links=None)
```

Bases: object

```
class degreedClient.models.content.BookAttribute(title, subtitle, authors, pages, summary, image_url=None, obsolete=None, publish_date=None, language=None, external_id=None, isbn=None, created_at=None, modified_at=None, provider_code=None)
```

Bases: object

```
class degreedClient.models.content.Content(id, attributes=None, links=None)
```

Bases: object

```
class degreedClient.models.content.ContentAttribute(content_type, external_id=None, title=None, summary=None, url=None, format=None, is_obsolete=False, image_url=None, language=None, duration=None, duration_type=None, provider=None, is_internal=False, created_at=None, modified_at=None)
```

Bases: object

```
class degreedClient.models.content.Course(id, attributes=None, links=None)
```

Bases: object

```
class degreedClient.models.content.CourseAttribute(provider_code, external_id, title, summary, url, obsolete, image_url, language, duration, duration_type, cost_units, cost_unit_type, format, difficulty, video_url, created_at=None, modified_at=None)
```

Bases: object

```
class degreedClient.models.content.Video(id, attributes=None, links=None)
```

Bases: object

```
class degreedClient.models.content.VideoAttribute(provider_code, external_id, title, duration, duration_type, summary, url, obsolete=None, image_url=None, language=None, publish_date=None, created_at=None, modified_at=None)
```

Bases: object

6.5 degreedClient.models.completion module

```
class degreedClient.models.completion.Completion(id, attributes, links, relationships=None, included=None)
```

Bases: object

```
class degreedClient.models.completion.CompletionAttribute(employee_id, completed_at=None, added_at=None, points_earned=0, is_verified=False, rating=0, access_method=None)
```

Bases: object

```
class degreedClient.models.completion.CompletionCreationAttributes(user_id, user_identifier_type, content_id, content_id_type, content_type, completed_at=None, is_verified=False, questions_correct=0, percentile=0, duration=0, involvement_level=None)
```

Bases: object

```
class degreedClient.models.completion.IncludeAttributes(content_type, url, title, provider)
```

Bases: object

```
class degreedClient.models.completion.Included(id, attributes, links)
```

Bases: object

```
class degreedClient.models.completion.Relationships(user)
```

Bases: object

```
class degreedClient.models.completion.RelationshipsData(id)
```

Bases: object

```
class degreedClient.models.completion.RelationshipsProvider (id, type_)
    Bases: object

class degreedClient.models.completion.RelationshipsUser (id, type_)
    Bases: object
```

6.6 degreedClient.models.certifiable_skill module

```
class degreedClient.models.certifiable_skill.CertifiableSkill (id, attributes,
                                                                links)
    Bases: object

class degreedClient.models.certifiable_skill.CertifiableSkillAttribute (name,
                                                                de-
                                                                scrip-
                                                                tion,
                                                                skill_unique_identifier,
                                                                is_featured,
                                                                cre-
                                                                ated_at=None,
                                                                mod-
                                                                i-
                                                                fied_at=None,
                                                                visi-
                                                                bil-
                                                                ity=None,
                                                                cost=0)
    Bases: object
```

6.7 degreedClient.models.group module

```
class degreedClient.models.group.Group (id, attributes, links, relationships)
    Bases: object

class degreedClient.models.group.GroupAttribute (name, description, privacy, cre-
                                                                ated_at=None, modified_at=None)
    Bases: object
```

6.8 degreedClient.models.pathway module

```
class degreedClient.models.pathway.Collaborator (id, attributes, links, relationships)
    Bases: object

class degreedClient.models.pathway.CollaboratorAttribute (employee_id,
                                                                cre-
                                                                ated_at=None)
    Bases: object

class degreedClient.models.pathway.Follower (id, attributes, links, relationships)
    Bases: object

class degreedClient.models.pathway.FollowerAttribute (employee_id,
                                                                cre-
                                                                ated_at=None)
    Bases: object
```

```
class degreedClient.models.pathway.GrpPathway(id, attributes, links, relationships)
    Bases: object

class degreedClient.models.pathway.GrpPathwayAttribute(created_at=None)
    Bases: object

class degreedClient.models.pathway.Pathway(id, attributes, links, relationships)
    Bases: object

class degreedClient.models.pathway.PathwayAttribute(title, summary, visibility, sections=None, created_at=None, modified_at=None)
    Bases: object

class degreedClient.models.pathway.Tag(id, attributes, links)
    Bases: object

class degreedClient.models.pathway.TagAttribute(tag, created_at=None)
    Bases: object
```

6.9 degreedClient.models.provider module

```
class degreedClient.models.provider.Provider(id, attributes, links, relationships)
    Bases: object

class degreedClient.models.provider.ProviderAttribute(follower_employee_id, following_employee_id, followed_at=None)
    Bases: object

class degreedClient.models.provider.ProviderLicence(id, attributes, links, relationships)
    Bases: object

class degreedClient.models.provider.ProviderLicenceAttribute(employee_id, is_enabled, created_at=None)
    Bases: object

class degreedClient.models.provider.SpecificProvider(id, attributes, links)
    Bases: object

class degreedClient.models.provider.SpecificProviderAttribute(name, url)
    Bases: object
```

6.10 degreedClient.models.recommendation module

```
class degreedClient.models.recommendation.RecoAttribute(employee_id, recipient_employee_id, status, recommended_at=None, modified_at=None)
    Bases: object

class degreedClient.models.recommendation.Recommendation(id, attributes, links, relationships, included)
    Bases: object
```

6.11 degreedClient.skill_plan module

```
class degreedClient.models.skill_plan.SkillFollower(id, attributes, links, relationships)
```

Bases: object

```
class degreedClient.models.skill_plan.SkillFollowerAttribute(employee_id,  
                                                             enrolled_at,  
                                                             is_primary_plan)
```

Bases: object

```
class degreedClient.models.skill_plan.SkillPlan(id, attributes, links)
```

Bases: object

```
class degreedClient.models.skill_plan.SkillPlanAttribute(name, description, vis-  
                                                         ibility, sections=None,  
                                                         created_at=None)
```

Bases: object

6.12 degreedClient.models.skills_rating module

```
class degreedClient.models.skills_rating.SkillRating(id, attributes, links, relationships)
```

Bases: object

```
class degreedClient.models.skills_rating.SkillRatingAttribute(employee_id,  
                                                             skill_name,  
                                                             rating, rating_type,  
                                                             certifi-  
                                                             able_skill_guid,  
                                                             rated_at=None)
```

Bases: object

6.13 degreedClient.models.required_learning module

```
class degreedClient.models.required_learning.LearningsAttribute(employee_id,  
                                                                assign-  
                                                                ment_type,  
                                                                due_at, cre-  
                                                                ated_at=None,  
                                                                modi-  
                                                                fied_at=None)
```

Bases: object

```
class degreedClient.models.required_learning.RegLearning(id, attributes, links, rela-  
                                                         tionships, included)
```

Bases: object

6.14 degreedClient.models.login module

```
class degreedClient.models.login.Login(id, attributes, links, relationships)
```

Bases: object

```
class degreedClient.models.login.LoginAttribute(employee_id, logged_in_at=None)  
    Bases: object
```


7.1 degreedClient.exceptions module

exception `degreedClient.exceptions.DegreedApiException` (*message*, *uri=None*)
Bases: `Exception`

exception `degreedClient.exceptions.UserNotFoundException` (*message*, *uri=None*)
Bases: `degreedClient.exceptions.DegreedApiException`

CONTRIBUTING

Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given. You can contribute in many ways:

8.1 Types of Contributions

8.1.1 Report Bugs

Report bugs at <https://github.com/Rmaravanyika/degreedClient/issues>.

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

8.1.2 Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with “bug” and “help wanted” is open to whoever wants to implement it.

8.1.3 Implement Features

Look through the GitHub issues for features. Anything tagged with “enhancement” and “help wanted” is open to whoever wants to implement it.

8.1.4 Write Documentation

Python client for Degreed API could always use more documentation, whether as part of the official Python client for Degreed API docs, in docstrings, or even on the web in blog posts, articles, and such.

8.1.5 Submit Feedback

The best way to send feedback is to file an issue at <https://github.com/Rmaravanyika/degreedClient/issues>.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome :)

8.2 Get Started!

Ready to contribute? Here's how to set up *degreedClient* for local development.

1. Fork the *degreedClient* repo on GitHub.
2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/degreedClient.git
```

3. Install your local copy into a virtualenv. Assuming you have *virtualenvwrapper* installed, this is how you set up your fork for local development:

```
$ mkvirtualenv degreedClient
$ cd degreedClient/
$ python setup.py develop
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

5. When you're done making changes, check that your changes pass *flake8* and the tests, including testing other Python versions with *tox*:

```
$ flake8 degreedClient tests
$ python setup.py test or py.test
$ tox
```

To get *flake8* and *tox*, just *pip* install them into your virtualenv.

6. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

7. Submit a pull request through the GitHub website.

8.3 Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

1. The pull request should include tests.
2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring, and add the feature to the list in *README.rst*.
3. The pull request should work for Python 2.7, 3.4, 3.5 and 3.6, and for PyPy. Check https://travis-ci.org/Rmaravanyika/degreedClient/pull_requests and make sure that the tests pass for all supported Python versions.

8.4 Tips

To run a subset of tests:

```
$ python -m unittest tests.test_degreedClient
```

8.5 Deploying

A reminder for the maintainers on how to deploy. Make sure all your changes are committed (including an entry in HISTORY.rst). Then run:

```
$ bumpversion patch # possible: major / minor / patch
$ git push
$ git push --tags
```

Travis will then deploy to PyPI if tests pass.

CREDITS

9.1 Development Lead

- Ronald Maravanyika <rmaravanyika@gmail.com>

9.2 Contributors

None yet. Why not be the first?

HISTORY

10.1 2.2.2 (2020-05-17)

10.2 2.1.2 (2020-05-13)

10.3 2.1.1 (2020-05-13)

10.4 2.1.0 (2019-09-27)

10.5 2.0.0 (2019-09-09)

10.6 1.8.0 (2019-07-25)

10.7 1.6.2 (2019-07-06)

10.8 1.6.1 (2019-07-06)

10.9 1.5.0 (2019-07-04)

10.10 1.0.0 (2019-05-21)

- First release on PyPI.

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