
Mendeley Python SDK Documentation

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Mendeley

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The Mendeley Python SDK provides access to the [Mendeley API](#). For more information on the API and its capabilities, see the [developer portal](#).

CHAPTER 1

Installation

Install from PyPI using `pip`, a package manager for Python.

```
pip install mendeley
```


CHAPTER 2

Compatibility

The SDK has been tested with Python 2.7 and 3.4.

CHAPTER 3

Sample applications

There are two sample applications that illustrate how to use the SDK:

- [mendeley-api-python-example](#), a Flask web application for accessing a user's library.
- [mendeley-api-python-catalog-example](#), a command-line application for accessing the Mendeley catalog.

Using the SDK

Authentication

There are three ways to authenticate with the Mendeley Python SDK. Before you start, you'll need to have registered your application at the [developer portal](#).

Authorization code flow

This flow is recommended for applications that have access to secure, private storage, such as web applications deployed on a server.

```
from mendeley import Mendeley

# These values should match the ones supplied when registering your application.
mendeley = Mendeley(client_id, client_secret=client_secret, redirect_uri=redirect_uri)

auth = mendeley.start_authorization_code_flow()

# The user needs to visit this URL, and log in to Mendeley.
login_url = auth.get_login_url()

# After logging in, the user will be redirected to a URL, auth_response.
session = auth.authenticate(auth_response)
```

Implicit grant flow

This flow is recommended for applications running in environments that do not provide secure storage.

```
from mendeley import Mendeley

# These values should match the ones supplied when registering your application.
mendeley = Mendeley(client_id, redirect_uri=redirect_uri)

auth = mendeley.start_implicit_grant_flow()

# The user needs to visit this URL, and log in to Mendeley.
login_url = auth.get_login_url()

# After logging in, the user will be redirected to a URL, auth_response.
session = auth.authenticate(auth_response)
```

Client credentials flow

This flow does not require the user to log in. However, it only provides access to a limited set of resources (the read-only Mendeley Catalog of crowd sourced documents).

```
from mendeley import Mendeley

# These values should match the ones supplied when registering your application.
mendeley = Mendeley(client_id, client_secret=client_secret)

auth = mendeley.start_client_credentials_flow()
session = auth.authenticate()
```

Sessions

After authentication, you will have a *MendeleySession*, which will allow you to access the Mendeley API. The linked resources describe the operations that you can perform, and the objects that you can interact with.

class mendeley.session.MendeleySession

Entry point for accessing Mendeley resources.

annotations

A *class: Annotations <mendeley.resources.annotations.Annotations>* resource for accessing annotations in the logged-in user's library.

catalog

A *Catalog* resource for accessing the Mendeley catalog.

documents

A *Documents* resource for accessing documents in the logged-in user's library.

files

A *Files* resource for accessing files in the logged-in user's library.

groups

A *Groups* resource for accessing groups that the user is a member of.

profiles

A *Profiles* resource for accessing profiles of Mendeley users.

trash

A *Trash* resource for accessing trashed documents in the logged-in user's library.

Pagination

Many collections in the API are spread over multiple pages. Typically, the SDK provides two ways of navigating these collections:

- an *iter* method, which provides the whole collection as an iterator.
- a *list* method, which returns the first page of results as a *Page*. You can use this object to navigate through the other pages.

class `mendeley.pagination.Page`

A page of a collection of objects.

first_page

the first *Page* of the collection.

items

a list of items on this page.

last_page

the first *Page* of the collection.

next_page

the next *Page* of the collection, or *None* if this is the last page.

previous_page

the previous *Page* of the collection, or *None* if this is the first page.

Examples

To print the name of the logged-in user:

```
print session.profiles.me.display_name
```

To print the titles of all of the documents in the user's library:

```
for document in session.documents.iter():
    print document.title
```

To print the number of readers of a document by DOI:

```
print session.catalog.by_identifier(doi='10.1371/journal.pmed.0020124', view='stats').
    ↪reader_count
```

Resources

This page details the top-level resources that are available from a Mendeley session.

Documents

class `mendeley.resources.documents.Documents`

Top-level resource for accessing documents. These can be:

- documents for the logged-in user, if retrieved from a `MendeleySession`.
- documents in a *Group*.

advanced_search (*title=None, author=None, source=None, abstract=None, min_year=None, max_year=None, view=None*)

Executes an advanced search in the logged-in user's library, where individual fields can be searched on.

Parameters

- **title** – Title.
- **author** – Author.
- **source** – Source.
- **abstract** – Abstract.
- **min_year** – Minimum year for documents to return.
- **max_year** – Maximum year for documents to return.
- **view** – the view to get. One of 'bib', 'client', 'tags', 'all'.

Returns a `DocumentsSearch` resource, from which results can be retrieved.

create (*title, type, **kwargs*)

Creates a new document from metadata.

Parameters

- **title** – title of the document.
- **type** – type of the document.
- **kwargs** – other properties of the document. These can be any of the attributes on `UserDocument` or any of its views.

Returns a `UserDocument`.

create_from_file (*path*)

Creates a new document from a file.

Parameters **path** – path to the file.

Returns a `UserDocument`.

get (*id, view=None*)

Retrieves a document by ID.

Parameters

- **id** – the ID of the document to get.
- **view** – the view to get. One of 'bib', 'client', 'tags', 'all'.

Returns a `UserDocument`.

iter (*page_size=None, view=None, sort=None, order=None, modified_since=None, deleted_since=None*)

Retrieves documents, as an iterator.

Parameters

- **page_size** – the number of documents to retrieve at a time. Defaults to 20.
- **view** – the view to get. One of 'bib', 'client', 'tags', 'all'.
- **sort** – if specified, sorts documents by the specified field. One of 'created', 'last_modified', 'title'.
- **order** – if specified in conjunction with 'sort', specifies the sort order. One of 'asc', 'desc'.

- **modified_since** – if specified, only returns files modified after this timestamp.
- **deleted_since** – if specified, only returns the IDs of documents deleted after this timestamp.

Returns an iterator of *UserDocuments*.

list (*page_size=None*, *view=None*, *sort=None*, *order=None*, *modified_since=None*, *deleted_since=None*)
Retrieves documents, as a paginated collection.

Parameters

- **page_size** – the number of documents to return on each page. Defaults to 20.
- **view** – the view to get. One of ‘bib’, ‘client’, ‘tags’, ‘all’.
- **sort** – if specified, sorts documents by the specified field. One of ‘created’, ‘last_modified’, ‘title’.
- **order** – if specified in conjunction with ‘sort’, specifies the sort order. One of ‘asc’, ‘desc’.
- **modified_since** – if specified, only returns files modified after this timestamp.
- **deleted_since** – if specified, only returns the IDs of documents deleted after this timestamp.

Returns a *Page* of *UserDocuments*.

search (*query*, *view=None*)
Searches the logged-in user’s library for documents.

Parameters

- **query** – the search query to execute.
- **view** – the view to get. One of ‘bib’, ‘client’, ‘tags’, ‘all’.

Returns a *DocumentsSearch* resource, from which results can be retrieved.

class `mendeley.resources.trash.Trash`

Top-level resource for accessing trashed documents. These can be:

- trashed documents for the logged-in user, if retrieved from a *MendeleySession*.
- trashed documents in a *Group*.

get (*id*, *view=None*)
Retrieves a trashed document by ID.

Parameters

- **id** – the ID of the document to get.
- **view** – the view to get. One of ‘bib’, ‘client’, ‘tags’, ‘all’.

Returns a *TrashDocument*.

iter (*page_size=None*, *view=None*, *sort=None*, *order=None*, *modified_since=None*, *deleted_since=None*)
Retrieves trashed documents, as an iterator.

Parameters

- **page_size** – the number of documents to retrieve at a time. Defaults to 20.
- **view** – the view to get. One of ‘bib’, ‘client’, ‘tags’, ‘all’.

- **sort** – if specified, sorts documents by the specified field. One of ‘created’, ‘last_modified’, ‘title’.
- **order** – if specified in conjunction with ‘sort’, specifies the sort order. One of ‘asc’, ‘desc’.
- **modified_since** – if specified, only returns files modified after this timestamp.
- **deleted_since** – if specified, only returns the IDs of documents deleted after this timestamp.

Returns an iterator of *TrashDocuments*.

list (*page_size=None, view=None, sort=None, order=None, modified_since=None, deleted_since=None*)
Retrieves trashed documents, as a paginated collection.

Parameters

- **page_size** – the number of documents to return on each page. Defaults to 20.
- **view** – the view to get. One of ‘bib’, ‘client’, ‘tags’, ‘all’.
- **sort** – if specified, sorts documents by the specified field. One of ‘created’, ‘last_modified’, ‘title’.
- **order** – if specified in conjunction with ‘sort’, specifies the sort order. One of ‘asc’, ‘desc’.
- **modified_since** – if specified, only returns files modified after this timestamp.
- **deleted_since** – if specified, only returns the IDs of documents deleted after this timestamp.

Returns a *Page* of *TrashDocuments*.

Catalog

class `mendeley.resources.catalog.Catalog`

Top-level resource for accessing catalog documents.

advanced_search (*title=None, author=None, source=None, abstract=None, min_year=None, max_year=None, open_access=None, view=None*)

Executes an advanced catalog search, where individual fields can be searched on.

Parameters

- **title** – Title.
- **author** – Author.
- **source** – Source.
- **abstract** – Abstract.
- **min_year** – Minimum year for documents to return.
- **max_year** – Maximum year for documents to return.
- **open_access** – If ‘true’, only returns open access documents.
- **view** – the view to get. One of ‘bib’, ‘client’, ‘stats’, ‘all’.

Returns a *CatalogSearch* resource, from which results can be retrieved.

by_identifier (*arxiv=None, doi=None, isbn=None, issn=None, pmid=None, scopus=None, filehash=None, view=None*)

Retrieves a catalog document by an external identifier. Only one identifier may be specified.

Parameters

- **arxiv** – ArXiv ID.
- **doi** – DOI.
- **isbn** – ISBN.
- **issn** – ISSN.
- **pmid** – PubMed ID.
- **scopus** – Scopus ID (EID).
- **filehash** – SHA-1 filehash.
- **view** – the view to get. One of ‘bib’, ‘client’, ‘stats’, ‘all’.

Returns a *CatalogDocument*.

get (*id, view=None*)

Retrieves a catalog document by ID.

Parameters

- **id** – the ID of the document to get.
- **view** – the view to get. One of ‘bib’, ‘client’, ‘stats’, ‘all’.

Returns a *CatalogDocument*.

lookup (*arxiv=None, doi=None, pmid=None, filehash=None, title=None, authors=None, year=None, source=None, view=None*)

Finds the closest matching catalog document to a supplied set of metadata.

Parameters

- **arxiv** – ArXiv ID.
- **doi** – DOI.
- **pmid** – PubMed ID.
- **filehash** – SHA-1 filehash.
- **title** – Title.
- **authors** – Authors.
- **year** – Year.
- **source** – Source.
- **view** – the view to get. One of ‘bib’, ‘client’, ‘stats’, ‘all’.

Returns a *CatalogDocument*.

search (*query, view=None*)

Searches the catalog for documents.

Parameters

- **query** – the search query to execute.
- **view** – the view to get. One of ‘bib’, ‘client’, ‘stats’, ‘all’.

Returns a *CatalogSearch* resource, from which results can be retrieved.

class `mendeley.resources.catalog.CatalogSearch`

Resource for accessing the results of a catalog search.

iter (*page_size=None*)

Retrieves search results, as an iterator.

Parameters `page_size` – the number of search results to retrieve at a time. Defaults to 20.

Returns an iterator of *CatalogDocuments*.

list (*page_size=None*)

Retrieves search results, as a paginated collection.

Parameters `page_size` – the number of search results to return on each page. Defaults to 20.

Returns a *Page* of *CatalogDocuments*.

Files

class `mendeley.resources.files.Files`

Top-level resource for accessing files. These can be:

- files for the logged-in user, if retrieved from a *MendeleySession*.
- files attached to a *CatalogDocument*.
- files attached to a *UserDocument*.
- files in a *Group*.

iter (*page_size=None, added_since=None, deleted_since=None*)

Retrieves files, as an iterator.

Parameters

- `page_size` – the number of files to retrieve at a time. Defaults to 20.
- `added_since` – if specified, only returns files added after this timestamp.
- `deleted_since` – if specified, only returns the IDs of files deleted after this timestamp.

Returns an iterator of *Files*.

list (*page_size=None, added_since=None, deleted_since=None*)

Retrieves files, as a paginated collection.

Parameters

- `page_size` – the number of files to return on each page. Defaults to 20.
- `added_since` – if specified, only returns files added after this timestamp.
- `deleted_since` – if specified, only returns the IDs of files deleted after this timestamp.

Returns a *Page* of *Files*.

Groups

class `mendeley.resources.groups.Groups`

Top-level resource for accessing groups.

get (*id*)

Retrieves a group by ID.

Parameters *id* – the ID of the group to get.

Returns a *Group*.

iter (*page_size=None*)

Retrieves groups that the logged-in user is a member of, as an iterator.

Parameters *page_size* – the number of groups to retrieve at a time. Defaults to 20.

Returns an iterator of *Groups*.

list (*page_size=None*)

Retrieves groups that the logged-in user is a member of, as a paginated collection.

Parameters *page_size* – the number of groups to return on each page. Defaults to 20.

Returns a *Page* of *Groups*.

class `mendeley.resources.groups.GroupMembers`

Resource for accessing members of a group.

iter (*page_size=None*)

Retrieves members of the group, as an iterator.

Parameters *page_size* – the number of members to retrieve at a time. Defaults to 20.

Returns an iterator of *GroupMembers*.

list (*page_size=None*)

Retrieves members of the group, as a paginated collection.

Parameters *page_size* – the number of members to return on each page. Defaults to 20.

Returns a *Page* of *GroupMembers*.

Profiles

class `mendeley.resources.profiles.Profiles`

Top-level resource for accessing profiles.

get (*id*)

Retrieves a profile by ID.

Parameters *id* – the ID of the profile to get.

Returns a *Profile*.

me

The *Profile* of the logged-in user.

Annotations

class `mendeley.resources.annotations.Annotations`

Top-level resource for accessing annotations.

get (*id*)

Retrieves an annotation by ID.

Parameters *id* – the ID of the annotation to get.

Returns a *Annotation*.

iter (*page_size=None, modified_since=None, deleted_since=None*)

Retrieves annotations that the logged-in user is a member of, as an iterator.

Parameters

- **page_size** – the number of annotations to retrieve at a time. Defaults to 20.
- **modified_since** – if specified, only returns annotations modified after this timestamp.
- **deleted_since** – if specified, only returns the annotations deleted after this timestamp.

Returns an iterator of *Annotations*.

list (*page_size=None, modified_since=None, deleted_since=None*)

Retrieves annotations as a paginated collection.

Parameters

- **page_size** – the number of annotations to return on each page. Defaults to 20.
- **modified_since** – if specified, only returns annotations modified after this timestamp.
- **deleted_since** – if specified, only returns annotations deleted after this timestamp.

Returns a *Page* of

Annotations.

Models

This page details the various model objects in the Mendeley Python SDK.

User documents

Documents

class `mendeley.models.documents.UserDocument`

Base class for user documents.

id

title

type

source

year

identifiers

keywords

abstract

add_note (*text*)

Adds a note to this document.

Parameters **text** – the text of the note to add.

Returns a *Annotation*.

attach_file (*path*)

Attaches a file to this document.

Parameters *path* – the path of the file to attach.

Returns a *File*.

authors

a list of *Persons*.

created

an Arrow object.

delete ()

Permanently deletes this document.

files

a *Files* resource, from which *Files* can be retrieved.

group

a *Group*.

last_modified

an Arrow object.

move_to_trash ()

Moves this document to the trash.

Returns a *TrashDocument*.

profile

a *Profile*.

update (***kwargs*)

Updates this document.

Parameters *kwargs* – updated field values. Only the values supplied will be modified.

Returns the updated document.

class mendeley.models.documents.**TrashDocument**

Base class for trashed documents.

id

title

type

source

year

identifiers

keywords

abstract

authors

a list of *Persons*.

created

an Arrow object.

delete ()

Permanently deletes this document.

files
a *Files* resource, from which *Files* can be retrieved.

group
a *Group*.

last_modified
an Arrow object.

profile
a *Profile*.

restore()
Restores this document from the trash.
Returns a *UserDocument*.

Views

The following views are available on *UserDocuments* and *TrashDocuments*.

class `mendeley.models.documents.UserBibView`
Additional fields returned when getting a *UserDocument* or *TrashDocument* with `view='bib'` or `'all'`.

pages

volume

issue

websites

month

publisher

day

city

edition

institution

series

chapter

revision

accessed
an Arrow object.

editors
a list of *Persons*.

class `mendeley.models.documents.UserClientView`
Additional fields returned when getting a *UserDocument* or *TrashDocument* with `view='client'` or `'all'`.

file_attached

read

starred

authored

confirmed

hidden

class `mendeley.models.documents.UserTagsView`

Additional fields returned when getting a *UserDocument* or *TrashDocument* with `view='tags'` or `'all'`.

tags

Catalog documents

Documents

class `mendeley.models.catalog.CatalogDocument`

Base class for catalog documents.

id

title

type

source

year

identifiers

keywords

abstract

link

authors

a list of *Persons*.

files

a *Files* resource, from which *Files* can be retrieved.

Views

The following views are available on *CatalogDocuments*.

class `mendeley.models.catalog.CatalogBibView`

Additional fields returned when getting a *CatalogDocument* with `view='bib'` or `'all'`.

pages

volume

issue

websites

month

publisher

day

city

edition

institution

series

chapter

revision

editors

a list of *Persons*.

class `mendeley.models.catalog.CatalogClientView`

Additional fields returned when getting a *CatalogDocument* with `view='client'` or `'all'`.

file_attached

class `mendeley.models.catalog.CatalogStatsView`

Additional fields returned when getting a *CatalogDocument* with `view='stats'` or `'all'`.

reader_count

reader_count_by_academic_status

reader_count_by_subdiscipline

reader_count_by_country

Profiles

class `mendeley.models.profiles.Profile`

A Mendeley profile.

id

first_name

last_name

display_name

email

link

research_interests

academic_status

verified

user_type

created

an Arrow object.

discipline

a *Discipline*.

education

a list of *Education* objects.

employment

a list of *Employment* objects.

location

a *Location*.

photo
a *Photo*.

Groups

class `mendeley.models.groups.Group`
A Mendeley group.

id

name

description

disciplines

tags

webpage

link

access_level

role

created

an Arrow object.

documents

a *Documents* resource, from which *UserDocuments* can be retrieved.

files

a *Files* resource, from which *Files* can be retrieved.

owner

a *Profile*.

photo

a *Photo*.

trash

a *Trash* resource, from which *TrashDocuments* can be retrieved.

class `mendeley.models.groups.GroupMember`
A member of a Mendeley group.

id

role

first_name

last_name

display_name

email

link

research_interests

academic_status

verified

user_type

created

an Arrow object.

discipline

a *Discipline*.

education

a list of *Education* objects.

employment

a list of *Employment* objects.

joined

an Arrow object.

location

a *Location*.

photo

a *Photo*.

Files

class mendeley.models.files.**File**

A file attached to a document.

id

size

file_name

mime_type

filehash

download_url

add_highlight (*bounding_boxes, color*)

Adds a highlight to this file.

Parameters

- **bounding_boxes** – the area the highlight covers on the file.
- **color** – the color of the highlight.

Returns a *Annotation*.

add_sticky_note (*text, x_position, y_position, page_number*)

Adds a sticky note to this file.

Parameters

- **text** – the text of the sticky_note.
- **x_position** – the x position on the file of the sticky_note.
- **y_position** – the y position on the file of the sticky_note.
- **page_number** – the page_number on the file of the sticky_note.

Returns a *Annotation*.

delete ()

Deletes the file.

document (*view=None*)

Parameters **view** – document view to return.

Returns a *UserDocument* or *CatalogDocument*, depending on which the document is attached to.

download (*directory*)

Downloads the file.

Parameters **directory** – the directory to download the file to. This must exist.

Returns the path to the downloaded file.

download_url

the URL at which the file can be downloaded. This is only valid for a short time, so should not be cached.

Annotations

class `mendeley.models.annotations.Annotation`

An annotation attached to a document or a file.

id

type

text

privacy_level

color

a *Color*.

created

an *Arrow* object.

delete ()

Permanently deletes this annotation.

document (*view=None*)

Parameters **view** – document view to return.

Returns a *UserDocument*

last_modified

an *Arrow* object.

positions

a list of *BoundingBox*.

profile

a *Profile*.

update (***kwargs*)

Updates this annotation.

Common objects

class `mendeley.models.common.Discipline`
The discipline of a *Profile*.

name
subdisciplines

class `mendeley.models.common.Education`
Education details, associated with a *Profile*.

institution
degree
website
end_date
an Arrow object.
start_date
an Arrow object.

class `mendeley.models.common.Employment`
Employment details, associated with a *Profile*.

institution
position
website
classes
end_date
an Arrow object.
start_date
an Arrow object.

class `mendeley.models.common.Location`
A location, associated with a *Profile*.

latitude
longitude
name

class `mendeley.models.common.Person`
A person, associated with a *Document*, as either an author or an editor.

first_name
last_name
static create (*first_name*, *last_name*)
Creates a person object, to be used when creating or updating a *Document*.

Parameters

- **first_name** –
- **last_name** –

Returns a *Person*.

class `mendeley.models.common.Photo`
A photo, associated with a *Profile* or *Group*.

- original**
- standard**
- square**

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