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# SharePoint REST API

Feb 20, 2023



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SharePoint Rest API provides REST API to connect to SharePoint, similarly to Django Rest Framework.

The library allows you to query specific library or use the search API. You can work in two modality: URLs or Settings.



# CHAPTER 1

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## URL based mode

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URL mode would specify: tenant and site in the url

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**Note:** “api/sharepoint/<tenant>/<site>/<library>/<search-type>/?<filter>=<value>”

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## CHAPTER 2

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### Settings based mode

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Settings mode would use... settings

SHAREPOINT\_TENANT SHAREPOINT\_SITE

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**Note:** “api/sharepoint/<library>/<search-type>/?<filter>=<value>”

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## CHAPTER 3

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### Indices and tables

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- `genindex`
- `modindex`
- `search`



## 4.1 Install

add SharePoint REST API in your INSTALLED\_APPS in your settings.py and configure your settings

```
INSTALLED_APPS = (  
    ...  
    'sharepoint_rest_api',  
    ...  
)
```

include your the library urls in the main url.py

```
path(r'api/', include('sharepoint_rest_api.urls', namespace='sharepoint')),
```

create your objects tenant, site and libraries objects in your models.

setup your settings

Please see *Settings*

## 4.2 Settings

- *Available settings*

### 4.2.1 Available settings

Here's a full list of all available settings, in alphabetical order, and their default values, each settings can be overridden though an env var.

**Warning:** All the entries must be prefixed by `SHAREPOINT_`. To change the credential file location you have to put in your `settings.py`:

```
SHAREPOINT_SITE= 'NEW-SITE'
```

### CACHE\_DISABLED

Default: `False`

Setting to toggle cache used, based on url

### PAGE\_SIZE

Default: `25`

Search API page size

### PASSWORD

Default: `invalid_password`

Tenant password

### SITE

Default: `GLB-DRP`

SharePoint site name

### SITE\_TYPE

Default: `sites`

SharePoint site type (sites/teams)

### TENANT

Default: `https://unitst.sharepoint.com`

SharePoint tenant name

### USERNAME

Default: `invalid_username`

Tenant username

## 4.3 API

- *Model Views*
- *Base Views*
- *Settings Based Views*
- *URL Based Views*

### 4.3.1 Model Views

Views to allow CRUD on SharePoint models

`sharepoint_rest_api.views.model_views.SharePointTenantViewSet (**kwargs)`

A viewset that provides default *list()* and *retrieve()* actions.

`sharepoint_rest_api.views.model_views.SharePointSiteViewSet (**kwargs)`

A viewset that provides default *list()* and *retrieve()* actions.

`sharepoint_rest_api.views.model_views.SharePointLibraryViewSet (**kwargs)`

A viewset that provides default *list()* and *retrieve()* actions.

### 4.3.2 Base Views

Base views extracted by settings and based views

`sharepoint_rest_api.views.base.AbstractSharePointViewSet (**kwargs)`

Base ViewSet for SharePoint Integration

`sharepoint_rest_api.views.base.CamlQuerySharePointViewSet (**kwargs)`

Viewset for CamlQuery Integration

`sharepoint_rest_api.views.base.RestQuerySharePointViewSet (**kwargs)`

Viewset for Rest Integration

`sharepoint_rest_api.views.base.FileSharePointViewSet (**kwargs)`

Base Viewset to handle SharePoint file metadata

`sharepoint_rest_api.views.base.SharePointSearchViewSet (**kwargs)`

Base class for SharePoint Search API

### 4.3.3 Settings Based Views

Views used for settings mode

`sharepoint_rest_api.views.settings_based.SettingsBasedSharePointViewSet (**kwargs)`

Base viewset for settings based mode

`sharepoint_rest_api.views.settings_based.SharePointSettingsRestViewSet (**kwargs)`

Viewset for SharePoint Rest (settings based)

`sharepoint_rest_api.views.settings_based.SharePointSettingsCamlViewSet (**kwargs)`

Viewset for SharePoint Caml (settings based)

`sharepoint_rest_api.views.settings_based.SharePointSettingsFileViewSet (**kwargs)`  
Viewset for SharePoint File metadata (settings based)

`sharepoint_rest_api.views.settings_based.SharePointSettingsSearchViewSet (**kwargs)`  
Viewset for SharePoint Search (settings based)

### 4.3.4 URL Based Views

Views used for URL mode

`sharepoint_rest_api.views.url_based.UrlBasedSharePointViewSet (**kwargs)`  
Base viewset for URL based mode

`sharepoint_rest_api.views.url_based.SharePointUrlRestViewSet (**kwargs)`  
Viewset for SharePoint Rest (URL based)

`sharepoint_rest_api.views.url_based.SharePointUrlCamlViewSet (**kwargs)`  
Viewset for SharePoint Caml (URL based)

`sharepoint_rest_api.views.url_based.SharePointUrlFileViewSet (**kwargs)`  
Viewset for SharePoint File metadata (URL based)

## 4.4 Serializers

- *Serializers Fields*
  - *SharePointPropertyField*
  - *UpperSharePointPropertyField*
  - *SharePointPropertyManyField*
  - *RawSearchSharePointField*
  - *SearchSharePointField*
  - *CapitalizeSearchSharePointField*
- *Model Serializers Fields*
  - *SharePointTenantSerializer*
  - *SharePointSiteSerializer*
  - *SharePointLibrarySerializer*
- *Sharepoint*
  - *BaseSharePointItemSerializer*
  - *SharePointSettingsSerializer*
  - *SharePointUrlSerializer*
  - *SharePointFileSerializer*

### 4.4.1 Serializers Fields

Available fields to be used in serializers

#### SharePointPropertyField

```
class sharepoint_rest_api.serializers.fields.SharePointPropertyField(**kwargs)
    Get attribute from the object or properties converting it to camlcase e.g. from_date -> fromDate
```

#### UpperSharePointPropertyField

```
class sharepoint_rest_api.serializers.fields.UpperSharePointPropertyField(**kwargs)
    Get attribute from the object or properties, it changes to upper case e.g. uuid -> UUID
```

#### SharePointPropertyManyField

```
class sharepoint_rest_api.serializers.fields.SharePointPropertyManyField(**kwargs)
    Get attribute from the object or properties, handles multivalues
```

#### RawSearchSharePointField

```
class sharepoint_rest_api.serializers.fields.RawSearchSharePointField(**kwargs)
    Gets the name of the field without any transformation
```

#### SearchSharePointField

```
class sharepoint_rest_api.serializers.fields.SearchSharePointField(**kwargs)
    Gets the name of the field transforming the name with caml query function e.g. last_name -> LastName
```

#### CapitalizeSearchSharePointField

```
class sharepoint_rest_api.serializers.fields.CapitalizeSearchSharePointField(**kwargs)
    Gets the name of the field capitalizing the name of the field e.g. example -> Example
```

### 4.4.2 Model Serializers Fields

Serializers for SharePoint models

#### SharePointTenantSerializer

```
class sharepoint_rest_api.serializers.model_serializers.SharePointTenantSerializer(instance=None, data=None,
    data=<class 'rest_framework.request.Request'>
    'rest_framework.request.Request'
    **kwargs)
    Serializer for SharePointTenant model
```

### SharePointSiteSerializer

```
class sharepoint_rest_api.serializers.model_serializers.SharePointSiteSerializer (instance=None, data=<class 'rest_framework.fields.empty'>, **kwargs)

    Serializer for SharePointSite model
```

### SharePointLibrarySerializer

```
class sharepoint_rest_api.serializers.model_serializers.SharePointLibrarySerializer (instance=None, data=<class 'rest_framework.fields.empty'>, **kwargs)

    Serializer for Sharepoint Library model
```

## 4.4.3 Sharepoint

Serializers used to unmarshal SharePoint responses

### BaseSharePointItemSerializer

```
class sharepoint_rest_api.serializers.sharepoint.BaseSharePointItemSerializer (instance=None, data=<class 'rest_framework.fields.empty'>, **kwargs)

    Base Serializer for SharePointItem object
```

### SharePointSettingsSerializer

```
class sharepoint_rest_api.serializers.sharepoint.SharePointSettingsSerializer (instance=None, data=<class 'rest_framework.fields.empty'>, **kwargs)

    Serializer for Settings Based implementation
```

### SharePointUrlSerializer

```
class sharepoint_rest_api.serializers.sharepoint.SharePointUrlSerializer (instance=None, data=<class 'rest_framework.fields.empty'>, **kwargs)

    Serializer for Url Based implementation
```

### SharePointFileSerializer

```
class sharepoint_rest_api.serializers.sharepoint.SharePointFileSerializer (instance=None, data=<class 'rest_framework.fields.empty'>, **kwargs)

    Serializer for SharePoint File object
```

## 4.5 Client

Class to create a SharePoint Client used to be the interface with SharePoint

**class** `sharepoint_rest_api.client.SharePointClient` (*\*args, \*\*kwargs*)  
Client to access SharePoint Document Library

**download\_file** (*filename*)

**Parameters** **filename** – name of the file to download

**Returns**

download file in current folder

**get\_folder** (*folder\_name*)

**Parameters** **folder\_name** – name of the folder

**Returns** folder object

Return folder object

**read\_caml\_items** (*filters=None, scope=None*)

**Parameters**

- **filters** – filter dictionary
- **scope** – SharePoint scope

**Returns** items

Retrieves (filtered) items on current folder using CamlQueries

**read\_file** (*filename*)

**Parameters** **filename** – filename

**Returns**

Retrieve file in current folder

**read\_files** (*filters=None*)

**Parameters** **filters** –

**Returns** files

Returns files metadata for files in current folder

**read\_folders** (*folder\_name*)

**Parameters** **folder\_name** –

**Returns** folders

Return folders metadata for subfolder of current folder

**read\_items** (*filters=None, select=None*)

**Parameters**

- **filters** – filter dictionary
- **scope** – SharePoint scope

**Returns** items

Retrieves (filtered) items on current folder using querystring

**search** (*search=None, filters=None, select=None, order\_by=None, source\_id=None, page=1*)

### Parameters

- **filter** – filter dictionary
- **select** – select string
- **order\_by** – SharePoint order fields
- **source\_id** – SharePoint SourceId

**Returns** items and total row number

search file in the SharePoint site

**upload\_file** (*file, folder\_name='Documents', metadata=<class 'dict'>*)

### Parameters

- **path** – inmemory file
- **folder\_name** – name of the folder
- **metadata** – metadata dictionary

**Returns**

## 4.6 Builders

Utility classes to help transforming url dictionary in “SharePoint” like query

- *CamlQueryBuilder*
- *QueryStringBuilder*
- *SearchRequestBuilder*

### 4.6.1 CamlQueryBuilder

**class** `sharepoint_rest_api.builders.camlquery_builder.CamlQueryBuilder` (*filters, scope=None*)

Helper Class to create queries in CamlQuery format

### 4.6.2 QueryStringBuilder

**class** `sharepoint_rest_api.builders.querystring_builder.QueryStringBuilder` (*filters*)

Helper class to create sharepoint querystring

### 4.6.3 SearchRequestBuilder

```
class sharepoint_rest_api.builders.search_request_builder.SearchRequestBuilder (search=None,
                                                                    filters=None,
                                                                    select=None,
                                                                    order_by=None,
                                                                    source_id=None,
                                                                    start_row=None)
```

Helper class to build queries in Keyword Query Language (KQL)

## 4.7 Models

- *SharePointTenant*
- *SharePointSite*
- *SharePointLibrary*

### 4.7.1 SharePointTenant

```
class sharepoint_rest_api.models.SharePointTenant (*args, **kwargs)
    SharePoint Tenant model

    url
    username
    password
```

### 4.7.2 SharePointSite

```
class sharepoint_rest_api.models.SharePointSite (*args, **kwargs)
    SharePoint Site model

    tenant
    name
    site_type
```

### 4.7.3 SharePointLibrary

```
class sharepoint_rest_api.models.SharePointLibrary (*args, **kwargs)
    SharePoint Library model

    name
    site
    active
```

**public**

## 4.8 Utils

Utility functions

- *to\_camel*
- *get\_cache\_key*
- *first\_upper*

### 4.8.1 to\_camel

`sharepoint_rest_api.utils.to_camel(snake_str)`  
function to convert snake case string to caml case

### 4.8.2 get\_cache\_key

`sharepoint_rest_api.utils.get_cache_key(args, **kwargs)`  
creates hash string to be used as key

### 4.8.3 first\_upper

`sharepoint_rest_api.utils.first_upper(string)`  
returns string with only first letter uppercase

## 4.9 Changelog

This sections lists the biggest changes done on each release.

- *Release 0.16*
- *Release 0.15*
- *Release 0.14.2*
- *Release 0.14.1*
- *Release 0.14*
- *Release 0.13*
- *Release 0.12*
- *Release 0.11*
- *Release 0.10*
- *Release 0.9*

- *Release 0.8*
- *Release 0.7.4*
- *Release 0.7.3*
- *Release 0.7.2*
- *Release 0.7.1 (broken)*
- *Release 0.7*
- *Release 0.6.5*
- *Release 0.6.4*
- *Release 0.6.3*
- *Release 0.6.2*
- *Release 0.6.1*
- *Release 0.6*
- *Release 0.5*
- *Release 0.4.1*
- *Release 0.4*
- *Release 0.3*
- *Release 0.2*
- *Release 0.1*

#### **4.9.1 Release 0.16**

updated to Office365-REST-Python-Client>=2.4

#### **4.9.2 Release 0.15**

- updated to Office365-REST-Python-Client>=2.3.16

#### **4.9.3 Release 0.14.2**

- fixed search

#### **4.9.4 Release 0.14.1**

- fixed search

#### **4.9.5 Release 0.14**

- implement upload

### 4.9.6 Release 0.13

- added query support for search

### 4.9.7 Release 0.12

- updated to Office365-REST-Python-Client>=2.3.13

### 4.9.8 Release 0.11

- updated to Office365-REST-Python-Client==2.3.12
- added support to order by

### 4.9.9 Release 0.10

- fixed authentication issue notification

### 4.9.10 Release 0.9

- allow connection using client and secret

### 4.9.11 Release 0.8

- added support to django 3.2, 4.0
- upgraded to Office365 2.3.4

### 4.9.12 Release 0.7.4

- fixed cache - part 3

### 4.9.13 Release 0.7.3

- fixed cache - part 2

### 4.9.14 Release 0.7.2

- fixed cache

### 4.9.15 Release 0.7.1 (broken)

- fixed cache

#### **4.9.16 Release 0.7**

- upgraded to Office365 2.3.x
- added support to python 3.9
- removed cache switch, related to CamlQuery issue
- allow config to be changed by envvars and settings

#### **4.9.17 Release 0.6.5**

- SearchRequest fix pages size

#### **4.9.18 Release 0.6.4**

- SearchRequest tweaks

#### **4.9.19 Release 0.6.3**

- Search API: fix first page

#### **4.9.20 Release 0.6.2**

- Search API: fix total rows

#### **4.9.21 Release 0.6.1**

- Search API: amend list method

#### **4.9.22 Release 0.6**

- Search API: added total rows

#### **4.9.23 Release 0.5**

- Search API: added pagination

#### **4.9.24 Release 0.4.1**

- fixed selected field search

#### **4.9.25 Release 0.4**

- Querystring builder: added source id
- Search API: possibility to add default filters

### 4.9.26 Release 0.3

- upgraded office365 to 2.2
- disabled cache

### 4.9.27 Release 0.2

- added support to django 3.1
- tweaked search api

### 4.9.28 Release 0.1

- initial release

## 4.10 Intersphinx Reference

Here the list of objects available for this documentation. To use it add an entry to your `intersphinx_mapping`.

```
intersphinx_mapping = {
    'sharepoint_rest_api': ('http://readthedocs.org/sharepoint_rest_api/latest/', u
↪None),
    ...
}
```

- *func*
- *label*
- *setting*

### 4.10.1 func

- `sharepoint_rest_api.utils.to_camel` : `':func:sharepoint-rest-api:sharepoint_rest_api.utils.to_camel'` (`sharepoint_rest_api.utils.to_camel()`)
- `sharepoint_rest_api.utils.get_cache_key` : `':func:sharepoint-rest-api:sharepoint_rest_api.utils.get_cache_key'` (`sharepoint_rest_api.utils.get_cache_key()`)
- `sharepoint_rest_api.utils.first_upper` : `':func:sharepoint-rest-api:sharepoint_rest_api.utils.first_upper'` (`sharepoint_rest_api.utils.first_upper()`)

### 4.10.2 label

- `api` : `':ref:sharepoint-rest-api:api'` (*API*)
- `builders` : `':ref:sharepoint-rest-api:builders'` (*Builders*)

- `changes`: `':ref:sharepoint-rest-api:changes'` (*Changelog*)
- `client`: `':ref:sharepoint-rest-api:client'` (*Client*)
- `genindex`: `':ref:sharepoint-rest-api:genindex'` (*genindex*)
- `index`: `':ref:sharepoint-rest-api:index'` (*Welcome to SharePoint REST API's documentation!*)
- `install`: `':ref:sharepoint-rest-api:install'` (*Install*)
- `interphinx`: `':ref:sharepoint-rest-api:interphinx'` (*Intersphinx Reference*)
- `models`: `':ref:sharepoint-rest-api:models'` (*Models*)
- `serializers`: `':ref:sharepoint-rest-api:serializers'` (*Serializers*)
- `settings`: `':ref:sharepoint-rest-api:settings'` (*Settings*)
- `utils`: `':ref:sharepoint-rest-api:modindex'` (*Utils*)

### 4.10.3 setting

- `CACHE_DISABLED` : `':setting:sharepoint-rest-api:CACHE_DISABLED'`  
(*CACHE\_DISABLED*)
- `TENANT`: `':setting:sharepoint-rest-api:TENANT'` (*TENANT*)
- `SITE`: `':setting:sharepoint-rest-api:SITE'` (*SITE*)
- `SITE_TYPE`: `':setting:sharepoint-rest-api:SITE_TYPE'` (*SITE\_TYPE*)
- `USERNAME`: `':setting:sharepoint-rest-api:USERNAME'` (*USERNAME*)
- `PASSWORD`: `':setting:sharepoint-rest-api:PASSWORD'` (*PASSWORD*)
- `PAGE_SIZE`: `':setting:sharepoint-rest-api:PAGE_SIZE'` (*PAGE\_SIZE*)



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