
dtlpy Documentation

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Or Shabtay

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COMMAND LINE INTERAFCE

Options:

CLI for Dataloop

```
usage: dlp [-h] [-v]
           {shell,upgrade,logout,login,login-token,login-secret,login-m2m,init,checkout-
↪state,help,version,api,projects,datasets,items,videos,services,triggers,deploy,
↪generate,packages,ls,pwd,cd,mkdir,clear,exit}
           * * *
```

1.1 Positional Arguments

operation

Possible choices: shell, upgrade, logout, login, login-token, login-secret, login-m2m, init, checkout-state, help, version, api, projects, datasets, items, videos, services, triggers, deploy, generate, packages, ls, pwd, cd, mkdir, clear, exit

supported operations

1.2 Named Arguments

-v, --version

dtlpy version

Default: False

1.3 Sub-commands:

1.3.1 shell

Open interactive Dataloop shell

```
dlp shell [-h]
```

1.3.2 upgrade

Update dtlpy package

```
dlp upgrade [-h] [-u ]
```

1.3.2.1 optional named arguments

-u, --url Package url. default 'dtlpy'

1.3.3 logout

Logout

```
dlp logout [-h]
```

1.3.4 login

Login using web Auth0 interface

```
dlp login [-h]
```

1.3.5 login-token

Login by passing a valid token

```
dlp login-token [-h] -t
```

1.3.5.1 required named arguments

-t, --token valid token

1.3.6 login-secret

Login client id and secret

```
dlp login-secret [-h] [-e ] [-p ] [-i ] [-s ]
```


1.3.6.1 required named arguments

-e, --email	user email
-p, --password	user password
-i, --client-id	client id
-s, --client-secret	client secret

1.3.7 login-m2m

Login client id and secret

```
dlp login-m2m [-h] [-e ] [-p ] [-i ] [-s ]
```

1.3.7.1 required named arguments

-e, --email	user email
-p, --password	user password
-i, --client-id	client id
-s, --client-secret	client secret

1.3.8 init

Initialize a .dataloop context

```
dlp init [-h]
```

1.3.9 checkout-state

Print checkout state

```
dlp checkout-state [-h]
```

1.3.10 help

Get help

```
dlp help [-h]
```

1.3.11 version

DTLPY SDK version

```
dlp version [-h]
```

1.3.12 api

Connection and environment

```
dlp api [-h] {info,setenv} ...
```

1.3.12.1 Positional Arguments

api	Possible choices: info, setenv
	gate operations

1.3.12.2 Sub-commands:

1.3.12.2.1 info

Print api information

```
dlp api info [-h]
```

1.3.12.2.2 setenv

Set platform environment

```
dlp api setenv [-h] -e
```

1.3.12.2.2.1 required named arguments

-e, --env	working environment
------------------	---------------------

1.3.13 projects

Operations with projects

```
dlp projects [-h] {ls,create,checkout,web} ...
```

1.3.13.1 Positional Arguments

projects Possible choices: ls, create, checkout, web
 projects operations

1.3.13.2 Sub-commands:

1.3.13.2.1 ls

List all projects

```
dlp projects ls [-h]
```

1.3.13.2.2 create

Create a new project

```
dlp projects create [-h] [-p ]
```

1.3.13.2.2.1 required named arguments

-p, --project-name project name

1.3.13.2.3 checkout

checkout a project

```
dlp projects checkout [-h] [-p ]
```

1.3.13.2.3.1 required named arguments

-p, --project-name project name

1.3.13.2.4 web

Open in web browser

```
dlp projects web [-h] [-p ]
```

1.3.13.2.4.1 optional named arguments

-p, --project-name project name

1.3.14 datasets

Operations with datasets

```
dlp datasets [-h] {web,ls,create,checkout} ...
```

1.3.14.1 Positional Arguments

datasets Possible choices: web, ls, create, checkout
datasets operations

1.3.14.2 Sub-commands:

1.3.14.2.1 web

Open in web browser

```
dlp datasets web [-h] [-p ] [-d ]
```

1.3.14.2.1.1 optional named arguments

-p, --project-name project name
-d, --dataset-name dataset name

1.3.14.2.2 ls

List of datasets in project

```
dlp datasets ls [-h] [-p ]
```

1.3.14.2.2.1 optional named arguments

-p, --project-name project name. Default taken from checked out (if checked out)

1.3.14.2.3 create

Create a new dataset

```
dlp datasets create [-h] -d [-p ] [-c]
```

1.3.14.2.3.1 required named arguments

-d, --dataset-name dataset name

1.3.14.2.3.2 optional named arguments

-p, --project-name project name. Default taken from checked out (if checked out)

-c, --checkout checkout the new dataset

Default: False

1.3.14.2.4 checkout

checkout a dataset

```
dlp datasets checkout [-h] [-d ] [-p ]
```

1.3.14.2.4.1 required named arguments

-d, --dataset-name dataset name

1.3.14.2.4.2 optional named arguments

-p, --project-name project name. Default taken from checked out (if checked out)

1.3.15 items

Operations with items

```
dlp items [-h] {web,ls,upload,download} ...
```

1.3.15.1 Positional Arguments

items Possible choices: web, ls, upload, download
items operations

1.3.15.2 Sub-commands:

1.3.15.2.1 web

Open in web browser

```
dlp items web [-h] [-r ] [-p ] [-d ]
```

1.3.15.2.1.1 required named arguments

-r, --remote-path remote path

1.3.15.2.1.2 optional named arguments

-p, --project-name project name

-d, --dataset-name dataset name

1.3.15.2.2 ls

List of items in dataset

```
dlp items ls [-h] [-p ] [-d ] [-o ] [-r ] [-t ]
```

1.3.15.2.2.1 optional named arguments

-p, --project-name project name. Default taken from checked out (if checked out)

-d, --dataset-name dataset name. Default taken from checked out (if checked out)

-o, --page page number (integer)

Default: 0

-r, --remote-path remote path

-t, --type Item type

1.3.15.2.3 upload

Upload directory to dataset

```
dlp items upload [-h] -l [-p ] [-d ] [-r ] [-f ] [-lap ] [-ow]
```

1.3.15.2.3.1 required named arguments

-l, --local-path local path

1.3.15.2.3.2 optional named arguments

-p, --project-name project name. Default taken from checked out (if checked out)
-d, --dataset-name dataset name. Default taken from checked out (if checked out)
-r, --remote-path remote path to upload to. default: /
-f, --file-types Comma separated list of file types to upload, e.g “.jpg,.png”. default: all
-lap, --local-annotations-path Path for local annotations to upload with items
-ow, --overwrite Overwrite existing item
Default: False

1.3.15.2.4 download

Download dataset to a local directory

```
dlp items download [-h] [-p ] [-d ] [-ao ] [-aft ] [-afl ] [-r ] [-ow]
                    [-t ] [-wt ] [-th ] [-l ] [-wb]
```

1.3.15.2.4.1 optional named arguments

-p, --project-name project name. Default taken from checked out (if checked out)
-d, --dataset-name dataset name. Default taken from checked out (if checked out)
-ao, --annotation-options which annotation to download. options: json,instance,mask
-aft, --annotation-filter-type annotation type filter when downloading annotations. options: box,segment,binary etc
-afl, --annotation-filter-label labels filter when downloading annotations.
-r, --remote-path remote path to upload to. default: /
-ow, --overwrite Overwrite existing item
Default: False
-t, --not-items-folder Download WITHOUT ‘items’ folder
Default: False

-wt, --with-text Annotations will have text in mask
Default: False

-th, --thickness Annotation line thickness
Default: “1”

-l, --local-path local path

-wb, --without-binaries Don’t download item binaries
Default: False

1.3.16 videos

Operations with videos

```
dlp videos [-h] {play,upload} ...
```

1.3.16.1 Positional Arguments

videos Possible choices: play, upload
videos operations

1.3.16.2 Sub-commands:

1.3.16.2.1 play

Play video

```
dlp videos play [-h] [-l ] [-p ] [-d ]
```

1.3.16.2.1.1 optional named arguments

-l, --item-path Video remote path in platform. e.g /dogs/dog.mp4

-p, --project-name project name. Default taken from checked out (if checked out)

-d, --dataset-name dataset name. Default taken from checked out (if checked out)

1.3.16.2.2 upload

Upload a single video

```
dlp videos upload [-h] -f -p -d [-r ] [-sc ] [-ss ] [-st ] [-e]
```


1.3.16.2.2.1 required named arguments

-f, --filename local filename to upload
-p, --project-name project name
-d, --dataset-name dataset name

1.3.16.2.2.2 optional named arguments

-r, --remote-path remote path
 Default: “/”
-sc, --split-chunks Video splitting parameter: Number of chunks to split
-ss, --split-seconds Video splitting parameter: Seconds of each chunk
-st, --split-times Video splitting parameter: List of seconds to split at. e.g 600,1800,2000
-e, --encode encode video to mp4, remove bframes and upload
 Default: False

1.3.17 services

Operations with services

```
dlp services [-h] {execute,tear-down,ls,log,delete} ...
```

1.3.17.1 Positional Arguments

services Possible choices: execute, tear-down, ls, log, delete
 services operations

1.3.17.2 Sub-commands:

1.3.17.2.1 execute

Create an execution

```
dlp services execute [-h] [-f FUNCTION_NAME] [-s SERVICE_NAME]
                    [-pr PROJECT_NAME] [-as] [-i ITEM_ID] [-d DATASET_ID]
                    [-a ANNOTATION_ID] [-in INPUTS]
```

1.3.17.2.1.1 optional named arguments

-f, --function-name	which function to run
-s, --service-name	which service to run
-pr, --project-name	Project name
-as, --async	Async execution Default: True
-i, --item-id	Item input
-d, --dataset-id	Dataset input
-a, --annotation-id	Annotation input
-in, --inputs	Dictionary string input Default: "{}"

1.3.17.2.2 tear-down

tear-down service of service.json file

```
dlp services tear-down [-h] [-l LOCAL_PATH] [-pr PROJECT_NAME]
```

1.3.17.2.2.1 optional named arguments

-l, --local-path	path to service.json file
-pr, --project-name	Project name

1.3.17.2.3 ls

List project's services

```
dlp services ls [-h] [-pr PROJECT_NAME] [-pkg PACKAGE_NAME]
```

1.3.17.2.3.1 optional named arguments

-pr, --project-name	Project name
-pkg, --package-name	Package name

1.3.17.2.4 log

Get services log

```
dlp services log [-h] [-pr PROJECT_NAME] [-f SERVICE_NAME] [-t START]
```

1.3.17.2.4.1 required named arguments

-pr, --project-name	Project name
-f, --service-name	Project name
-t, --start	Log start time

1.3.17.2.5 delete

Delete Service

```
dlp services delete [-h] [-f SERVICE_NAME] [-p PROJECT_NAME]
                    [-pkg PACKAGE_NAME]
```

1.3.17.2.5.1 optional named arguments

-f, --service-name	Service name
-p, --project-name	Project name
-pkg, --package-name	Package name

1.3.18 triggers

Operations with triggers

```
dlp triggers [-h] {create,delete,ls} ...
```

1.3.18.1 Positional Arguments

triggers	Possible choices: create, delete, ls triggers operations
-----------------	---

1.3.18.2 Sub-commands:

1.3.18.2.1 create

Create a Service Trigger

```
dlp triggers create [-h] -r RESOURCE -a ACTIONS [-p PROJECT_NAME]
                  [-pkg PACKAGE_NAME] [-f SERVICE_NAME] [-n NAME]
                  [-fl FILTERS] [-fn FUNCTION_NAME]
```

1.3.18.2.1.1 required named arguments

-r, --resource	Resource name
-a, --actions	Actions

1.3.18.2.1.2 optional named arguments

-p, --project-name	Project name
-pkg, --package-name	Package name
-f, --service-name	Service name
-n, --name	Trigger name
-fl, --filters	Json filter
	Default: “{}”
-fn, --function-name	Function name
	Default: “run”

1.3.18.2.2 delete

Delete Trigger

```
dlp triggers delete [-h] -t TRIGGER_NAME [-f SERVICE_NAME] [-p PROJECT_NAME]
                  [-pkg PACKAGE_NAME]
```

1.3.18.2.2.1 required named arguments

-t, --trigger-name	Trigger name
---------------------------	--------------

1.3.18.2.2.2 optional named arguments

-f, --service-name Service name
-p, --project-name Project name
-pkg, --package-name Package name

1.3.18.2.3 ls

List triggers

```
dlp triggers ls [-h] [-pr PROJECT_NAME] [-pkg PACKAGE_NAME] [-s SERVICE_NAME]
```

1.3.18.2.3.1 optional named arguments

-pr, --project-name Project name
-pkg, --package-name Package name
-s, --service-name Service name

1.3.19 deploy

deploy with json file

```
dlp deploy [-h] [-f JSON_FILE] [-p PROJECT_NAME]
```

1.3.19.1 required named arguments

-f Path to json file
-p Project name

1.3.20 generate

generate a json file

```
dlp generate [-h] [--option PACKAGE_TYPE] [-p PACKAGE_NAME]
```

1.3.20.1 optional named arguments

--option cataluge of examples
-p, --package-name Package name

1.3.21 packages

Operations with packages

```
dlp packages [-h] {ls,push,test,checkout,delete} ...
```

1.3.21.1 Positional Arguments

packages	Possible choices: ls, push, test, checkout, delete package operations
-----------------	--

1.3.21.2 Sub-commands:

1.3.21.2.1 ls

List packages

```
dlp packages ls [-h] [-p PROJECT_NAME]
```

1.3.21.2.1.1 optional named arguments

-p, --project-name	Project name
---------------------------	--------------

1.3.21.2.2 push

Create package in platform

```
dlp packages push [-h] [-src ] [-cid ] [-pr ] [-p ]
```

1.3.21.2.2.1 optional named arguments

-src, --src-path	Revision to deploy if selected True
-cid, --codebase-id	Revision to deploy if selected True
-pr, --project-name	Project name
-p, --package-name	Package name

1.3.21.2.3 test

Tests that Package locally using mock.json

```
dlp packages test [-h] [-c ] [-f ]
```

1.3.21.2.3.1 optional named arguments

- c, --concurrency** Revision to deploy if selected True
Default: 10
- f, --function-name** Function to test
Default: “run”

1.3.21.2.4 checkout

checkout a package

```
dlp packages checkout [-h] [-p ]
```

1.3.21.2.4.1 required named arguments

- p, --package-name** package name

1.3.21.2.5 delete

Delete Package

```
dlp packages delete [-h] [-pkg PACKAGE_NAME] [-p PROJECT_NAME]
```

1.3.21.2.5.1 optional named arguments

- pkg, --package-name** Package name
- p, --project-name** Project name

1.3.22 ls

List directories

```
dlp ls [-h]
```

1.3.23 pwd

Get current working directory

```
dlp pwd [-h]
```

1.3.24 cd

Change current working directory

```
dlp cd [-h] dir
```

1.3.24.1 Positional Arguments

dir

1.3.25 mkdir

Make directory

```
dlp mkdir [-h] name
```

1.3.25.1 Positional Arguments

name

1.3.26 clear

Clear shell

```
dlp clear [-h]
```

1.3.27 exit

Exit interactive shell

```
dlp exit [-h]
```


REPOSITORIES

2.1 Organizations

```

class Organizations(client_api: dtlpy.services.api_client.ApiClient)
    Bases: object

    organizations repository

    add_member(email, role: dtlpy.entities.organization.MemberOrgRole = MemberOrgRole.MEMBER,
               organization_id: Optional[str] = None, organization_name: Optional[str] = None,
               organization: Optional[dtlpy.entities.organization.Organization] = None)
        Add member to the Organization :param email: :param role: MemberOrgRole.ADMIN ,MemberOrg-
        Role.OWNER ,MemberOrgRole.MEMBER :param organization_id: :param organization_name: :param
        organization: :return: True

    create(organization_json) → dtlpy.entities.organization.Organization
        Create a new pipeline :param organization_json: json contain the Organization fields :return: Pipeline
        object

    delete_member(user_id: str, organization_id: Optional[str] = None, organization_name: Optional[str] =
                  None, organization: Optional[dtlpy.entities.organization.Organization] = None, sure: bool =
                  False, really: bool = False) → bool
        delete member from the Organization :param user_id: :param organization_id: :param organization_name:
        :param organization: :param sure: are you sure you want to delete? :param really: really really? :return:
        True

    get(organization_id: Optional[str] = None, organization_name: Optional[str] = None, fetch: Optional[bool]
        = None) → dtlpy.entities.organization.Organization
        Get a Organization object :param organization_id: optional - search by id :param organization_name: op-
        tional - search by name :param fetch: optional - fetch entity from platform, default taken from cookie
        :return: Organization object

    list() → dtlpy.miscellaneous.list_print.List[dtlpy.entities.organization.Organization]
        Get Organization's list. :return: List of Organization objects

    list_groups(organization: Optional[dtlpy.entities.organization.Organization] = None, organization_id:
                Optional[str] = None, organization_name: Optional[str] = None)
        list all organization groups :param organization: :param organization_id: :param organization_name: :re-
        turn groups list:

    list_integrations(organization: Optional[dtlpy.entities.organization.Organization] = None,
                     organization_id: Optional[str] = None, organization_name: Optional[str] = None,
                     only_available=False)
        list all organization integrations :param organization: :param organization_id: :param organization_name:
        :param only_available: bool - if True list only the available integrations :return groups list:

```

list_members(*organization: Optional[dtlpy.entities.organization.Organization] = None, organization_id: Optional[str] = None, organization_name: Optional[str] = None, role: Optional[dtlpy.entities.organization.MemberOrgRole] = None*)
list all organization members :param organization: :param organization_id: :param organization_name: :param role: MemberOrgRole.ADMIN ,MemberOrgRole.OWNER ,MemberOrgRole.MEMBER :return projects list:

update(*plan: str, organization: Optional[dtlpy.entities.organization.Organization] = None, organization_id: Optional[str] = None, organization_name: Optional[str] = None*) → *dtlpy.entities.organization.Organization*
Update a organization :param plan: OrganizationsPlans.FREEMIUM, OrganizationsPlans.PREMIUM :param organization: :param organization_id: :param organization_name: :return: organization object

update_member(*email: str, role: dtlpy.entities.organization.MemberOrgRole = MemberOrgRole.MEMBER, organization_id: Optional[str] = None, organization_name: Optional[str] = None, organization: Optional[dtlpy.entities.organization.Organization] = None*)
Update the member role :param email: :param role: MemberOrgRole.ADMIN ,MemberOrgRole.OWNER ,MemberOrgRole.MEMBER :param organization_id: :param organization_name: :param organization:

2.1.1 Integrations

Integrations Repository

class Integrations(*client_api: dtlpy.services.api_client.ApiClient, org: Optional[dtlpy.entities.organization.Organization] = None, project: Optional[dtlpy.entities.project.Project] = None*)

Bases: `object`

Datasets repository

create(*integrations_type: dtlpy.entities.driver.ExternalStorage, name, options*)
Add integrations to the Organization :param integrations_type: dl.ExternalStorage :param name: integrations name :param options: s3 - {key: "", secret: ""},
gcs - {key: "", secret: "", content: ""}, azureblob - {key: "", secret: "", clientId: "", tenantId: ""} key_value - {key: "", value: ""}

Returns True

delete(*integrations_id: str, sure: bool = False, really: bool = False*) → `bool`
Delete integrations from the Organization :param integrations_id: :param sure: are you sure you want to delete? :param really: really really? :return: True

get(*integrations_id: str*)
get organization integrations :param integrations_id: :return organization integrations:

list(*only_available=False*)
list all organization integrations :param only_available: bool - if True list only the available integrations :return groups list:

update(*new_name: str, integrations_id*)
Update the integrations name :param new_name: :param integrations_id:

2.2 Projects

class Projects(*client_api: dtlpy.services.api_client.ApiClient, org=None*)

Bases: `object`

Projects repository

add_member(*email: str, project_id: str, role: dtlpy.entities.project.MemberRole = MemberRole.DEVELOPER*)

Parameters

- **email** –
- **project_id** –
- **role** – “owner” ,”engineer” ,”annotator” ,”annotationManager”

checkout(*identifier: Optional[str] = None, project_name: Optional[str] = None, project_id: Optional[str] = None, project: Optional[dtlpy.entities.project.Project] = None*)

Check-out a project :param identifier: project name or partial id :param project_name: :param project_id: :param project: :return:

create(*project_name: str, checkout: bool = False*) → *dtlpy.entities.project.Project*

Create a new project :param project_name: :param checkout: :return: Project object

delete(*project_name: Optional[str] = None, project_id: Optional[str] = None, sure: bool = False, really: bool = False*) → *bool*

Delete a project forever! :param project_name: optional - search by name :param project_id: optional - search by id :param sure: are you sure you want to delete? :param really: really really?

Returns

True

get(*project_name: Optional[str] = None, project_id: Optional[str] = None, checkout: bool = False, fetch: Optional[bool] = None*) → *dtlpy.entities.project.Project*

Get a Project object :param project_name: optional - search by name :param project_id: optional - search by id :param checkout: :param fetch: optional - fetch entity from platform, default taken from cookie :return: Project object

list() → *dtlpy.miscellaneous.list_print.List[dtlpy.entities.project.Project]*

Get users project’s list. :return: List of Project objects

list_members(*project: dtlpy.entities.project.Project, role: Optional[dtlpy.entities.project.MemberRole] = None*)

Parameters

- **project** –
- **role** – “owner” ,”engineer” ,”annotator” ,”annotationManager”

open_in_web(*project_name: Optional[str] = None, project_id: Optional[str] = None, project: Optional[dtlpy.entities.project.Project] = None*)

Parameters

- **project_name** –
- **project_id** –
- **project** –

remove_member(*email*: *str*, *project_id*: *str*)

Parameters

- **email** –
- **project_id** –

update(*project*: [dtlpy.entities.project.Project](#), *system_metadata*: *bool* = *False*) → [dtlpy.entities.project.Project](#)

Update a project :param project: :param system_metadata: True, if you want to change metadata system
:return: Project object

update_member(*email*: *str*, *project_id*: *str*, *role*: [dtlpy.entities.project.MemberRole](#) = *MemberRole.DEVELOPER*)

Parameters

- **email** –
- **project_id** –
- **role** – “owner”, ”engineer”, ”annotator”, ”annotationManager”

2.3 Datasets

Datasets Repository

class Datasets(*client_api*: [dtlpy.services.api_client.ApiClient](#), *project*: *Optional*[[dtlpy.entities.project.Project](#)] = *None*)

Bases: [object](#)

Datasets repository

checkout(*identifier*=*None*, *dataset_name*=*None*, *dataset_id*=*None*, *dataset*=*None*)

Check-out a project :param identifier: project name or partial id :param dataset_name: :param dataset_id:
:param dataset: :return:

clone(*dataset_id*, *clone_name*, *filters*=*None*, *with_items_annotations*=*True*, *with_metadata*=*True*, *with_task_annotations_status*=*True*)

Clone a dataset

Parameters

- **dataset_id** – to clone dataset
- **clone_name** – new dataset name
- **filters** – Filters entity or a query dict
- **with_items_annotations** –
- **with_metadata** –
- **with_task_annotations_status** –

Returns

create(*dataset_name*, *labels*=*None*, *attributes*=*None*, *ontology_ids*=*None*, *driver*=*None*, *driver_id*=*None*, *checkout*=*False*, *expiration_options*: *Optional*[[dtlpy.entities.dataset.ExpirationOptions](#)] = *None*) → [dtlpy.entities.dataset.Dataset](#)

Create a new dataset

Parameters

- **dataset_name** – name
- **labels** – dictionary of {tag: color} or list of label entities
- **attributes** – dataset’s ontology’s attributes
- **ontology_ids** – optional - dataset ontology
- **driver** – optional - storage driver Driver object or driver name
- **driver_id** – optional - driver id
- **checkout** – bool. cache the dataset to work locally
- **expiration_options** – dl.ExpirationOptions object that contain definitions for dataset like MaxItemDays

Returns Dataset object

delete(dataset_name=None, dataset_id=None, sure=False, really=False)

Delete a dataset forever! :param dataset_name: optional - search by name :param dataset_id: optional - search by id :param sure: are you sure you want to delete? :param really: really really? :return: True

directory_tree(dataset: *Optional[dtlpy.entities.dataset.Dataset]* = None, dataset_name=None, dataset_id=None)

Get dataset’s directory tree :param dataset: :param dataset_name: :param dataset_id: :return:

static download_annotations(dataset, local_path=None, filters: *Optional[dtlpy.entities.filters.Filters]* = None, annotation_options: *Optional[dtlpy.entities.annotation.ViewAnnotationOptions]* = None, annotation_filters: *Optional[dtlpy.entities.filters.Filters]* = None, overwrite=False, thickness=1, with_text=False, remote_path=None, include_annotations_in_output=True, export_png_files=False, filter_output_annotations=False, alpha=None)

Download dataset’s annotations by filters. Filtering the dataset both for items and for annotations and download annotations Optional - also download annotations as: mask, instance, image mask of the item

Parameters

- **dataset** – dataset to download from
- **local_path** – local folder or filename to save to.
- **filters** – Filters entity or a dictionary containing filters parameters
- **annotation_options** – download annotations options: list(dl.ViewAnnotationOptions)
- **annotation_filters** – Filters entity to filter annotations for download
- **overwrite** – optional - default = False
- **thickness** – optional - line thickness, if -1 annotation will be filled, default =1
- **with_text** – optional - add text to annotations, default = False
- **remote_path** – DEPRECATED and ignored
- **include_annotations_in_output** – default - False , if export should contain annotations
- **export_png_files** – default - True, if semantic annotations should exported as png files
- **filter_output_annotations** – default - False, given an export by filter - determine if to filter out annotations

- **alpha** – opacity value [0 1], default 1

Returns List of local_path per each downloaded item

get(dataset_name=None, dataset_id=None, checkout=False, fetch=None) → *dtlpy.entities.dataset.Dataset*
Get dataset by name or id

Parameters

- **dataset_name** – optional - search by name
- **dataset_id** – optional - search by id
- **checkout** –
- **fetch** – optional - fetch entity from platform, default taken from cookie

Returns Dataset object

list(name=None, creator=None) → *dtlpy.miscellaneous.list_print.List[dtlpy.entities.dataset.Dataset]*
List all datasets. :param name: :param creator: :return: List of datasets

merge(merge_name, dataset_ids, project_ids, with_items_annotations=True, with_metadata=True, with_task_annotations_status=True, wait=True)
merge a dataset

Parameters

- **merge_name** – to clone dataset
- **dataset_ids** – new dataset name
- **project_ids** – Filters entity or a query dict
- **with_items_annotations** –
- **with_metadata** –
- **with_task_annotations_status** –
- **wait** – wait the command to finish

Returns

open_in_web(dataset_name=None, dataset_id=None, dataset=None)

Parameters

- **dataset_name** –
- **dataset_id** –
- **dataset** –

set_readonly(state: *bool*, dataset: *dtlpy.entities.dataset.Dataset*)
Set dataset readonly mode :param state: :param dataset: :return:

sync(dataset_id, wait=True)
Sync dataset with external storage

Parameters

- **dataset_id** – to sync dataset
- **wait** – wait the command to finish

Returns

update(dataset: dtlpy.entities.dataset.Dataset, system_metadata=False, patch: *Optional[dict] = None*) → dtlpy.entities.dataset.Dataset

Update dataset field :param dataset: Dataset entity :param system_metadata: bool - True, if you want to change metadata system :param patch: Specific patch request :return: Dataset object

upload_annotations(dataset, local_path, filters: *Optional[dtlpy.entities.filters.Filters] = None*, clean=False, remote_root_path='')

Upload annotations to dataset. :param dataset: dataset to upload to it :param local_path: str - local folder where the annotations files is. :param filters: Filters entity or a dictionary containing filters parameters :param clean: bool - if True it remove the old annotations :param remote_root_path: str - the remote root path to match remote and local items For example, if the item filepath is a/b/item and remote_root_path is /a the start folder will be b instead of a :return:

2.3.1 Drivers

class Drivers(client_api: dtlpy.services.api_client.ApiClient, project: *Optional[dtlpy.entities.project.Project] = None*)

Bases: **object**

Drivers repository

create(name, driver_type, integration_id, bucket_name, project_id=None, allow_external_delete=True, region=None, storage_class="", path="")

Parameters

- **name** – the driver name
- **driver_type** – ExternalStorage.S3, ExternalStorage.GCS, ExternalStorage.AZUREBLOB
- **integration_id** – the integration id
- **bucket_name** – the external bucket name
- **project_id** –
- **allow_external_delete** –
- **region** – rilevante only for s3 - the bucket region
- **storage_class** – rilevante only for s3
- **path** – Optional. By default path is the root folder. Path is case sensitive integration

Returns driver object

get(driver_name: *Optional[str] = None*, driver_id: *Optional[str] = None*) → dtlpy.entities.driver.Driver

Get a Driver object :param driver_name: optional - search by name :param driver_id: optional - search by id :return: Driver object

list() → dtlpy.miscellaneous.list_print.List[dtlpy.entities.driver.Driver]

Get project's drivers list. :return: List of Drivers objects

2.4 Items

class `Items`(*client_api*: `dtlpy.services.api_client.ApiClient`, *datasets*:

Optional[`dtlpy.repositories.datasets.Datasets`] = *None*, *dataset*:

Optional[`dtlpy.entities.dataset.Dataset`] = *None*, *dataset_id*=*None*, *items_entity*=*None*)

Bases: `object`

Items repository

clone(*item_id*, *dst_dataset_id*, *remote_filepath*=*None*, *metadata*=*None*, *with_annotations*=*True*,
with_metadata=*True*, *with_task_annotations_status*=*False*, *allow_many*=*False*, *wait*=*True*)

Clone item :param item_id: item to clone :param dst_dataset_id: destination dataset id :param remote_filepath: complete filepath :param metadata: new metadata to add :param with_annotations: clone annotations :param with_metadata: clone metadata :param with_task_annotations_status: clone task annotations status :param allow_many: *bool* if True use multiple clones in single dataset is allowed, (default=False) :param wait: wait the command to finish :return: `Item`

delete(*filename*=*None*, *item_id*=*None*, *filters*: *Optional*[`dtlpy.entities.filters.Filters`] = *None*)

Delete item from platform

Parameters

- **filename** – optional - search item by remote path
- **item_id** – optional - search item by id
- **filters** – optional - delete items by filter

Returns `True`

download(*filters*: *Optional*[`dtlpy.entities.filters.Filters`] = *None*, *items*=*None*, *local_path*=*None*,
file_types=*None*, *save_locally*=*True*, *to_array*=*False*, *annotation_options*:
Optional[`dtlpy.entities.annotation.ViewAnnotationOptions`] = *None*, *annotation_filters*:
Optional[`dtlpy.entities.filters.Filters`] = *None*, *overwrite*=*False*, *to_items_folder*=*True*,
thickness=*1*, *with_text*=*False*, *without_relative_path*=*None*,
avoid_unnecessary_annotation_download=*False*, *include_annotations_in_output*=*True*,
export_png_files=*False*, *filter_output_annotations*=*False*, *alpha*=*None*)

Download dataset by filters. Filtering the dataset for items and save them local Optional - also download annotation, mask, instance and image mask of the item

Parameters

- **filters** – Filters entity or a dictionary containing filters parameters
- **items** – download `Item` entity or `item_id` (or a list of item)
- **local_path** – local folder or filename to save to.
- **file_types** – a list of file type to download. e.g ['video/webm', 'video/mp4', 'image/jpeg', 'image/png']
- **save_locally** – *bool*. save to disk or return a buffer
- **to_array** – returns `Ndarray` when `True` and `local_path` = `False`
- **annotation_options** – download annotations options: list(`dl.ViewAnnotationOptions`)
- **annotation_filters** – Filters entity to filter annotations for download
- **overwrite** – optional - default = `False`
- **to_items_folder** – Create 'items' folder and download items to it
- **thickness** – optional - line thickness, if -1 annotation will be filled, default = 1

- **with_text** – optional - add text to annotations, default = False
- **without_relative_path** – bool - download items without the relative path from platform
- **avoid_unnecessary_annotation_download** – default - False
- **include_annotations_in_output** – default - False , if export should contain annotations
- **export_png_files** – default - True, if semantic annotations should exported as png files
- **filter_output_annotations** – default - False, given an export by filter - determine if to filter out annotations
- **alpha** – opacity value [0 1], default 1

Returns List of local_path per each downloaded item

get(filepath=None, item_id=None, fetch=None, is_dir=False) → *dtlpy.entities.item.Item*

Get Item object

Parameters

- **filepath** – optional - search by remote path
- **item_id** – optional - search by id
- **fetch** – optional - fetch entity from platform, default taken from cookie
- **is_dir** – True if you want to get an item from dir type

Returns Item object

get_all_items()

Get all items in dataset :param filters: dl.Filters entity to filters items :return: list of all items

list(filters: *Optional[dtlpy.entities.filters.Filters]* = None, page_offset=None, page_size=None) → *dtlpy.entities.paged_entities.PagedEntities*

List items

Parameters

- **filters** – Filters entity or a dictionary containing filters parameters
- **page_offset** – start page
- **page_size** – page size

Returns Pages object

make_dir(directory, dataset: *Optional[dtlpy.entities.dataset.Dataset]* = None) → *dtlpy.entities.item.Item*

Create a directory in a dataset

Parameters

- **directory** – name of directory
- **dataset** – optional

Returns

move_items(destination, filters: *Optional[dtlpy.entities.filters.Filters]* = None, items=None, dataset: *Optional[dtlpy.entities.dataset.Dataset]* = None) → bool

Move items to another directory.

If directory does not exist we will create it

Parameters

- **destination** – destination directory
- **filters** – optional - either this or items. Query of items to move
- **items** – optional - either this or filters. A list of items to move
- **dataset** – optional

Returns True if success

open_in_web(filepath=None, item_id=None, item=None)

Parameters

- **filepath** – item file path
- **item_id** – item id
- **item** – item entity

update(item: *Optional*[dtlpy.entities.item.Item] = None, filters: *Optional*[dtlpy.entities.filters.Filters] = None, update_values=None, system_update_values=None, system_metadata=False)

Update items metadata :param item: Item object :param filters: optional update filtered items by given filter :param update_values: optional field to be updated and new values :param system_update_values: values in system metadata to be updated :param system_metadata: bool - True, if you want to change metadata system :return: Item object

update_status(status: dtlpy.entities.item.ItemStatus, items=None, item_ids=None, filters=None, dataset=None, clear=False)

Parameters

- **status** – ItemStatus.COMPLETED, ItemStatus.APPROVED, ItemStatus.DISCARDED
- **items** –
- **item_ids** –
- **filters** –
- **dataset** –
- **clear** –

upload(local_path, local_annotations_path=None, remote_path='/', remote_name=None, file_types=None, overwrite=False, item_metadata=None, output_entity=<class 'dtlpy.entities.item.Item'>, no_output=False)

Upload local file to dataset. Local filesystem will remain. If “*” at the end of local_path (e.g. “/images/*”) items will be uploaded without head directory

Parameters

- **local_path** – list of local file, local folder, BufferIO, numpy.ndarray or url to upload
- **local_annotations_path** – path to dataloop format annotations json files.
- **remote_path** – remote path to save.
- **remote_name** – remote base name to save. when upload numpy.ndarray as local path, remote_name with .jpg or .png ext is mandatory
- **file_types** – list of file type to upload. e.g [‘.jpg’, ‘.png’]. default is all

- **item_metadata** –
- **overwrite** – optional - default = False
- **output_entity** – output type
- **no_output** – do not return the items after upload

Returns Output (list/single item)

2.5 Annotations

class Annotations(*client_api: dtlpy.services.api_client.ApiClient, item=None, dataset=None, dataset_id=None*)

Bases: [object](#)

Annotations repository

delete(*annotation=None, annotation_id=None, filters: Optional[dtlpy.entities.filters.Filters] = None*)

Remove an annotation from item

Parameters

- **annotation** – Annotation object
- **annotation_id** – annotation id
- **filters** – Filters entity or a dictionary containing filters parameters

Returns True/False

download(*filepath, annotation_format: dtlpy.entities.annotation.ViewAnnotationOptions = ViewAnnotationOptions.MASK, img_filepath=None, height=None, width=None, thickness=1, with_text=False, alpha=None*)

Save annotation format to file

Parameters

- **filepath** – Target download directory
- **annotation_format** – optional - list(dl.ViewAnnotationOptions)
- **img_filepath** – img file path - needed for img_mask
- **height** – optional - image height
- **width** – optional - image width
- **thickness** – optional - annotation format, default = 1
- **with_text** – optional - draw annotation with text, default = False
- **alpha** – opacity value [0 1], default 1

Returns

get(*annotation_id*)

Get a single annotation

Parameters **annotation_id** –

Returns Annotation object or None

list(*filters: Optional[dtlpy.entities.filters.Filters] = None, page_offset=None, page_size=None*)
List Annotation

Parameters

- **filters** – Filters entity or a dictionary containing filters parameters
- **page_offset** – starting page
- **page_size** – size of page

Returns Pages object

show(*image=None, thickness=1, with_text=False, height=None, width=None, annotation_format: dtlpy.entities.annotation.ViewAnnotationOptions = ViewAnnotationOptions.MASK, alpha=None*)
Show annotations

Parameters

- **image** – empty or image to draw on
- **thickness** – line thickness
- **with_text** – add label to annotation
- **height** – height
- **width** – width
- **annotation_format** – options: list(dl.ViewAnnotationOptions)
- **alpha** – opacity value [0 1], default 1

Returns ndarray of the annotations

update(*annotations, system_metadata=False*)

Update an existing annotation.

Parameters

- **annotations** – annotations object
- **system_metadata** – bool - True, if you want to change metadata system

Returns True

update_status(*annotation: Optional[dtlpy.entities.annotation.Annotation] = None, annotation_id=None, status: dtlpy.entities.annotation.AnnotationStatus = AnnotationStatus.ISSUE*)

Set status on annotation

Parameters

- **annotation** – optional - Annotation entity
- **annotation_id** – optional - annotation id to set status
- **status** – can be AnnotationStatus.ISSUE, AnnotationStatus.APPROVED, AnnotationStatus.REVIEW, AnnotationStatus.CLEAR

Returns Annotation object

upload(*annotations*)
Create a new annotation

Parameters **annotations** – list or single annotation of type Annotation

Returns list of annotation objects

2.6 Recipes

class **Recipes**(*client_api: dtlpy.services.api_client.ApiClient, dataset: Optional[dtlpy.entities.dataset.Dataset] = None, project: Optional[dtlpy.entities.project.Project] = None, project_id: Optional[str] = None*)

Bases: **object**

Items repository

clone(*recipe: Optional[dtlpy.entities.recipe.Recipe] = None, recipe_id=None, shallow=False*)

Clone Recipe

Parameters

- **recipe** – Recipe object
- **recipe_id** – Recipe id
- **shallow** – If True, link of existing ontology, clones all ontology that are link to the recipe as well

Returns Cloned ontology object

create(*project_ids=None, ontology_ids=None, labels=None, recipe_name=None, attributes=None*) → *dtlpy.entities.recipe.Recipe*

Create New Recipe

if ontology_ids is None an ontology will be created first :param project_ids: :param ontology_ids: :param labels: :param recipe_name: :param attributes:

delete(*recipe_id*)

Delete recipe from platform

Parameters **recipe_id** – recipe id

Returns True

get(*recipe_id*) → *dtlpy.entities.recipe.Recipe*

Get Recipe object

Parameters **recipe_id** – recipe id

Returns Recipe object

list(*filters: Optional[dtlpy.entities.filters.Filters] = None*) → *dtlpy.miscellaneous.list_print.List[dtlpy.entities.recipe.Recipe]*

List recipes for dataset :param filters:

open_in_web(*recipe=None, recipe_id=None*)

Parameters

- **recipe** –
- **recipe_id** –

update(*recipe*: [dtlpy.entities.recipe.Recipe](#), *system_metadata=False*) → [dtlpy.entities.recipe.Recipe](#)
Update items metadata

Parameters

- **recipe** – Recipe object
- **system_metadata** – bool - True, if you want to change metadata system

Returns Recipe object

2.6.1 Ontologies

class Ontologies(*client_api*: [dtlpy.services.api_client.ApiClient](#), *recipe*: *Optional*[[dtlpy.entities.recipe.Recipe](#)] = *None*, *project*: *Optional*[[dtlpy.entities.project.Project](#)] = *None*, *dataset*: *Optional*[[dtlpy.entities.dataset.Dataset](#)] = *None*)

Bases: [object](#)

Ontologies repository

create(*labels*, *title=None*, *project_ids=None*, *attributes=None*) → [dtlpy.entities.ontology.Ontology](#)
Create a new ontology

Parameters

- **labels** – recipe tags
- **title** – ontology title, name
- **project_ids** – recipe project/s
- **attributes** – recipe attributes

Returns Ontology object

delete(*ontology_id*)
Delete Ontology from platform

Parameters **ontology_id** – ontology_id id

Returns True

get(*ontology_id*) → [dtlpy.entities.ontology.Ontology](#)
Get Ontology object

Parameters **ontology_id** – ontology id

Returns Ontology object

static labels_to_roots(*labels*)
Converts labels dict to a list of platform representation of labels

Parameters **labels** – labels dict

Returns platform representation of labels

list(*project_ids=None*) → [dtlpy.miscellaneous.list_print.List](#)[[dtlpy.entities.ontology.Ontology](#)]
List ontologies for recipe :param project_ids: :return:

update(*ontology*: [dtlpy.entities.ontology.Ontology](#), *system_metadata=False*) → [dtlpy.entities.ontology.Ontology](#)

Update Ontology metadata

Parameters

- **ontology** – Ontology object
- **system_metadata** – bool - True, if you want to change metadata system

Returns Ontology object

2.7 Tasks

```
class Tasks(client_api: dtlpy.services.api_client.ApiClient, project: Optional[dtlpy.entities.project.Project] =
None, dataset: Optional[dtlpy.entities.dataset.Dataset] = None, project_id: Optional[str] = None)
```

Bases: **object**

Tasks repository

```
add_items(task: Optional[dtlpy.entities.task.Task] = None, task_id=None, filters:
Optional[dtlpy.entities.filters.Filters] = None, items=None, assignee_ids=None, query=None,
workload=None, limit=None, wait=True) → dtlpy.entities.task.Task
```

Add items to Task

:param task :param task_id: :param filters: :param items: :param assignee_ids: :param query: :param workload: :param limit: :param wait: wait the command to finish :return:

```
create(task_name, due_date=None, assignee_ids=None, workload=None, dataset=None, task_owner=None,
task_type='annotation', task_parent_id=None, project_id=None, recipe_id=None,
assignments_ids=None, metadata=None, filters=None, items=None, query=None,
available_actions=None, wait=True, check_if_exist: dtlpy.entities.filters.Filters = False) →
dtlpy.entities.task.Task
```

Create a new Annotation Task

Parameters

- **task_name** –
- **due_date** –
- **assignee_ids** –
- **workload** –
- **dataset** –
- **task_owner** –
- **task_type** – “annotation” or “qa”
- **task_parent_id** – optional if type is qa - parent task id
- **project_id** –
- **recipe_id** –
- **assignments_ids** –
- **metadata** –
- **filters** –
- **items** –
- **query** –
- **available_actions** –

- **wait** – wait the command to finish
- **check_if_exist** – dl.Filters check if task exist according to filter

Returns Annotation Task object

create_qa_task(*task*, *assignee_ids*, *due_date*=None, *filters*=None, *items*=None, *query*=None) → *dtlpy.entities.task.Task*

Parameters

- **task** –
- **assignee_ids** –
- **due_date** –
- **filters** –
- **items** –
- **query** –

delete(*task*: *Optional*[*dtlpy.entities.task.Task*] = None, *task_name*=None, *task_id*=None, *wait*=True)

Delete an Annotation Task :param task: :param task_name: :param task_id: :param wait: wait the command to finish :return: True

get(*task_name*=None, *task_id*=None) → *dtlpy.entities.task.Task*

Get an Annotation Task object :param task_name: optional - search by name :param task_id: optional - search by id :return: task_id object

get_items(*task_id*: *Optional*[*str*] = None, *task_name*: *Optional*[*str*] = None, *dataset*: *Optional*[*dtlpy.entities.dataset.Dataset*] = None, *filters*: *Optional*[*dtlpy.entities.filters.Filters*] = None) → *dtlpy.entities.paged_entities.PagedEntities*

Parameters

- **task_id** –
- **task_name** –
- **dataset** –
- **filters** –

Returns

list(*project_ids*=None, *status*=None, *task_name*=None, *pages_size*=None, *page_offset*=None, *recipe*=None, *creator*=None, *assignments*=None, *min_date*=None, *max_date*=None, *filters*: *Optional*[*dtlpy.entities.filters.Filters*] = None) → *Union*[*dtlpy.miscellaneous.list_print.List*[*dtlpy.entities.task.Task*], *dtlpy.entities.paged_entities.PagedEntities*]

Get Annotation Task list :param project_ids: list of project ids :param status: :param task_name: task name :param pages_size: :param page_offset: :param recipe: :param creator: :param assignments: assignments :param min_date:double :param max_date: double :param filters: dl.Filters entity to filters items :return: List of Annotation Task objects

open_in_web(*task_name*=None, *task_id*=None, *task*=None)

Parameters

- **task_name** –

- **task_id** –
- **task** –

query(*filters=None, project_ids=None*)

Parameters

- **filters** –
- **project_ids** –

set_status(*status: str, operation: str, task_id: str, item_ids: List[str]*)

Update item status within task

Parameters

- **status** – str - string the describes the status
- **operation** – str - 'create' or 'delete'
- **task_id** – str - task id
- **item_ids** – List[str]

:return : Boolean

update(*task: Optional[dtlpy.entities.task.Task] = None, system_metadata=False*) → *dtlpy.entities.task.Task*

Update an Annotation Task :param task: task entity :param system_metadata: True, if you want to change metadata system :return: Annotation Task object

2.7.1 Assignments

class Assignments(*client_api: dtlpy.services.api_client.ApiClient, project: Optional[dtlpy.entities.project.Project] = None, task: Optional[dtlpy.entities.task.Task] = None, dataset: Optional[dtlpy.entities.dataset.Dataset] = None, project_id=None*)

Bases: `object`

Assignments repository

create(*assignee_id, task=None, filters=None, items=None*) → *dtlpy.entities.assignment.Assignment*

Create a new assignment :param assignee_id: the assignee for the assignment :param task: task entity :param filters: Filters entity or a dictionary containing filters parameters :param items: list of items :return: Assignment object

get(*assignment_name=None, assignment_id=None*)

Get a Project object :param assignment_name: optional - search by name :param assignment_id: optional - search by id :return: Project object

get_items(*assignment: Optional[dtlpy.entities.assignment.Assignment] = None, assignment_id=None, assignment_name=None, dataset=None, filters=None*) → *dtlpy.entities.paged_entities.PagedEntities*

Get all the items in the assignment :param assignment: assignment entity :param assignment_id: assignment id :param assignment_name: assignment name :param dataset: dataset entity :param filters: Filters entity or a dictionary containing filters parameters :return:

list(*project_ids=None, status=None, assignment_name=None, assignee_id=None, pages_size=None, page_offset=None, task_id=None*) →

dtlpy.miscellaneous.list_print.List[dtlpy.entities.assignment.Assignment]
Get Assignments list

Parameters

- **project_ids** – list of project ids
- **status** –
- **assignment_name** –
- **assignee_id** –
- **pages_size** –
- **page_offset** –
- **task_id** –

Returns List of Assignment objects

open_in_web(*assignment_name=None, assignment_id=None, assignment=None*)

Parameters

- **assignment_name** –
- **assignment_id** –
- **assignment** –

reassign(*assignee_id, assignment=None, assignment_id=None, task=None, task_id=None, wait=True*)

Reassign an assignment :param assignee_id: :param assignment: :param assignment_id: :param task: :param task_id: :param wait: wait the command to finish :return: Assignment object

redistribute(*workload, assignment=None, assignment_id=None, task=None, task_id=None, wait=True*)

Redistribute an assignment :param workload: :param assignment: :param assignment_id: :param task: :param task_id: :param wait: wait the command to finish :return: Assignment object

set_status(*status: str, operation: str, item_id: str, assignment_id: str*)

Set item status within assignment @param status: str @param operation: created/deleted @param item_id: str @param assignment_id: str @return: Boolean

update(*assignment: Optional[dtlpy.entities.assignment.Assignment] = None, system_metadata=False*) → *dtlpy.entities.assignment.Assignment*

Update an assignment :param assignment: assignment entity :param system_metadata: bool - True, if you want to change metadata system :return: Assignment object

2.8 Packages

```
class LocalServiceRunner(client_api: dtlpy.services.api_client.ApiClient, packages, cwd=None,
                          multithreading=False, concurrency=10, package:
                          Optional[dtlpy.entities.package.Package] = None, module_name='default_module',
                          function_name='run', class_name='ServiceRunner', entry_point='main.py',
                          mock_file_path=None)
```

Bases: `object`

Service Runner Class

get_field(*field_name, field_type, mock_json, project=None, mock_inputs=None*)

Get field in mock json :param field_name: :param field_type: :param mock_json: :param project: :param mock_inputs: :return:

get_mainpy_run_service()

Get mainpy run service :return:

run_local_project(*project=None*)

Parameters project –

class Packages(*client_api: dtlpy.services.api_client.ApiClient, project: Optional[dtlpy.entities.project.Project] = None*)

Bases: `object`

Packages Repository

build_requirements(*filepath*) → `dtlpy.repositories.packages.Packages.list`

build a requirements list from file path :param filepath: path of the requirements file :return: a list of `dtlpy.entities.package.PackageRequirement`

static build_trigger_dict(*actions, name='default_module', filters=None, function='run', execution_mode='Once', type_t='Event'*)

build trigger dict :param actions: :param name: :param filters: :param function: :param execution_mode: :param type_t:

static check_cls_arguments(*cls, missing, function_name, function_inputs*)

Parameters

- **cls** –
- **missing** –
- **function_name** –
- **function_inputs** –

checkout(*package=None, package_id=None, package_name=None*)

Checkout as package :param package: :param package_id: :param package_name: :return:

delete(*package: Optional[dtlpy.entities.package.Package] = None, package_name=None, package_id=None*)

Delete Package object

Parameters

- **package** –
- **package_name** –
- **package_id** –

Returns True

deploy(*package_id=None, package_name=None, package=None, service_name=None, project_id=None, revision=None, init_input=None, runtime=None, sdk_version=None, agent_versions=None, bot=None, pod_type=None, verify=True, checkout=False, module_name=None, run_execution_as_process=None, execution_timeout=None, drain_time=None, on_reset=None, max_attempts=None, force=False, **kwargs*) → `dtlpy.entities.service.Service`

Deploy package :param package_id: :param package_name: :param package: :param service_name: :param project_id: :param revision: :param init_input: :param runtime: :param sdk_version: - optional - string - sdk version :param agent_versions: - dictionary - - optional -versions of sdk, agent runner and agent proxy :param bot: :param pod_type: :param verify: :param checkout: :param module_name: :param run_execution_as_process: :param execution_timeout: :param drain_time: :param on_reset: :param

max_attempts: Maximum execution retries in-case of a service reset :param force: optional - terminate old replicas immediately :return:

deploy_from_file(*project*, *json_filepath*)

Parameters

- **project** –
- **json_filepath** –

static generate(*name=None*, *src_path=None*, *service_name=None*,
package_type='default_package_type')

Generate new package environment :param name: :param src_path: :param service_name: :param package_type: :return:

get(*package_name=None*, *package_id=None*, *checkout=False*, *fetch=None*) →
dtlpy.entities.package.Package

Get Package object :param package_name: :param package_id: :param checkout: bool :param fetch: optional - fetch entity from platform, default taken from cookie :return: Package object

list(*filters: Optional[dtlpy.entities.filters.Filters] = None*, *project_id=None*) →
dtlpy.entities.paged_entities.PagedEntities

List project packages :param filters: :param project_id: :return:

open_in_web(*package=None*, *package_id=None*, *package_name=None*)

Parameters

- **package** –
- **package_id** –
- **package_name** –

pull(*package: dtlpy.entities.package.Package*, *version=None*, *local_path=None*, *project_id=None*)

Parameters

- **package** –
- **version** –
- **local_path** –
- **project_id** –

Returns

push(*project: Optional[dtlpy.entities.project.Project] = None*, *project_id: Optional[str] = None*,
package_name: Optional[str] = None, *src_path: Optional[str] = None*, *codebase: Optional[Union[dtlpy.entities.codebase.GitCodebase, dtlpy.entities.codebase.ItemCodebase, dtlpy.entities.codebase.FilesystemCodebase]] = None*, *modules: Optional[List[dtlpy.entities.package_module.PackageModule]] = None*, *is_global: Optional[bool] = None*, *checkout: bool = False*, *revision_increment: Optional[str] = None*, *version: Optional[str] = None*, *ignore_sanity_check: bool = False*, *service_update: bool = False*, *service_config: Optional[dict] = None*, *slots: Optional[List[dtlpy.entities.package_slot.PackageSlot]] = None*, *requirements: Optional[List[dtlpy.entities.package.PackageRequirement]] = None*) → *dtlpy.entities.package.Package*
Push local package. Project will be taken in the following hierarchy: project(input) -> project_id(input) -> self.project(context) -> checked out

Parameters

- **project** – optional - project entity to deploy to. default from context or checked-out
- **project_id** – optional - project id to deploy to. default from context or checked-out
- **package_name** – package name
- **src_path** – path to package codebase
- **codebase** –
- **modules** – list of modules PackageModules of the package
- **is_global** –
- **checkout** – checkout package to local dir
- **revision_increment** – optional - str - version bumping method - major/minor/patch - default = None
- **version** – semver version f the package
- **ignore_sanity_check** – NOT RECOMMENDED - skip code sanity check before pushing
- **service_update** – optional - bool - update the service
- **service_config** – json of service - a service that have config from the main service if wanted
- **slots** – optional - list of slots PackageSlot of the package
- **requirements** – requirements - list of package requirements

Returns

revisions(*package: Optional[dtlpy.entities.package.Package] = None, package_id=None*)

Get package revisions history

Parameters

- **package** – Package entity
- **package_id** – package id

test_local_package(*cwd=None, concurrency=None, package: Optional[dtlpy.entities.package.Package] = None, module_name='default_module', function_name='run', class_name='ServiceRunner', entry_point='main.py', mock_file_path=None*)

Test local package :param cwd: str - path to the file :param concurrency: int -the concurrency of the test :param package: entities.package :param module_name: str - module name :param function_name: str - function name :param class_name: str - class name :param entry_point: str - the file to run like main.py :param mock_file_path: str - the mock file that have the inputs :return:

update(*package: dtlpy.entities.package.Package, revision_increment: Optional[str] = None*) → *dtlpy.entities.package.Package*

Update Package changes to platform :param package: :param revision_increment: optional - str - version bumping method - major/minor/patch - default = None :return: Package entity

2.8.1 Codebases

```
class Codebases(client_api: dtlpy.services.api_client.ApiClient, project: Optional[dtlpy.entities.project.Project]  
                = None, dataset: Optional[dtlpy.entities.dataset.Dataset] = None, project_id: Optional[str] =  
                None)
```

Bases: `object`

Codebase repository

```
clone_git(codebase, local_path)
```

Parameters

- **codebase** –
- **local_path** –

```
get(codebase_name=None, codebase_id=None, version=None)
```

Get a Codebase object :param codebase_name: optional - search by name :param codebase_id: optional - search by id :param version: codebase version. default is latest. options: “all”, “latest” or ver number - “10” :return: Codebase object

```
static get_current_version(all_versions_pages, zip_md)
```

Parameters

- **all_versions_pages** –
- **zip_md** –

```
list() → dtlpy.entities.paged_entities.PagedEntities
```

List all code bases :return: Paged entity

```
list_versions(codebase_name)
```

List all codebase versions

Parameters **codebase_name** – code base name

Returns list of versions

```
pack(directory, name=None, description="")
```

Zip a local code directory and post to codebases :param directory: local directory to pack :param name: codebase name :param description: codebase description :return: Codebase object

```
pull_git(codebase, local_path)
```

Parameters

- **codebase** –
- **local_path** –

```
unpack(codebase: Optional[dtlpy.entities.codebase.Codebase] = None, codebase_name=None,  
        codebase_id=None, local_path=None, version=None)
```

Unpack codebase locally. Download source code and unzip :param codebase: *dtlpy.entities.codebase.Codebase* object :param codebase_name: search by name :param codebase_id: search by id :param local_path: local path to save codebase :param version: codebase version to unpack. default - latest :return: String (dirpath)

2.9 Services

```
class ServiceLog(_json: dict, service: dtlpy.entities.service.Service, services:
    dtlpy.repositories.services.Services, start=None, follow=None, execution_id=None,
    function_name=None, replica_id=None, system=False)
```

Bases: `object`

Service Log

view(until_completed)

Parameters until_completed –

2.9.1 Bots

```
class Bots(client_api: dtlpy.services.api_client.ApiClient, project: dtlpy.entities.project.Project)
```

Bases: `object`

Bots repository

create(name, return_credentials: bool = False)

Create a new Bot :param name: :param return_credentials: with True we'll return the password when create
:return: Bot object

delete(bot_id=None, bot_email=None)

Delete a Bot :param bot_id: bot id to delete :param bot_email: bot email to delete :return: True

get(bot_email=None, bot_id=None, bot_name=None)

Get a Bot object :param bot_email: get bot by email :param bot_id: get bot by id :param bot_name: get bot
by name :return: Bot object

list() → dtlpy.miscellaneous.list_print.List[dtlpy.entities.bot.Bot]

Get project's bots list. :return: List of Bots objects

2.10 Triggers

```
class Triggers(client_api: dtlpy.services.api_client.ApiClient, project: Optional[dtlpy.entities.project.Project] =
    None, service: Optional[dtlpy.entities.service.Service] = None, project_id: Optional[str] =
    None, pipeline: Optional[dtlpy.entities.pipeline.Pipeline] = None)
```

Bases: `object`

Triggers repository

```
create(service_id: Optional[str] = None, trigger_type: dtlpy.entities.trigger.TriggerType =
    TriggerType.EVENT, name: Optional[str] = None, webhook_id=None, function_name='run',
    project_id=None, active=True, filters=None, resource: dtlpy.entities.trigger.TriggerResource =
    TriggerResource.ITEM, actions: Optional[dtlpy.entities.trigger.TriggerAction] = None,
    execution_mode: dtlpy.entities.trigger.TriggerExecutionMode = TriggerExecutionMode.ONCE,
    start_at=None, end_at=None, inputs=None, cron=None, pipeline_id=None, pipeline=None,
    pipeline_node_id=None, root_node_namespace=None, **kwargs) →
    dtlpy.entities.trigger.BaseTrigger
```

Create a Trigger. Can create two types: a cron trigger or an event trigger. Inputs are different for each type

Inputs for all types:

Parameters

- **service_id** – Id of services to be triggered
- **trigger_type** – can be cron or event. use enum `dl.TriggerType` for the full list
- **name** – name of the trigger
- **webhook_id** – id for webhook to be called
- **function_name** – the function name to be called when triggered. must be defined in the package
- **project_id** – project id where trigger will work
- **active** – optional - True/False, default = True

Inputs for event trigger: :param filters: optional - Item/Annotation metadata filters, default = none :param resource: optional - Dataset/Item/Annotation/ItemStatus, default = Item :param actions: optional - Created/Updated/Deleted, default = create :param execution_mode: how many time trigger should be activate. default is “Once”. enum `dl.TriggerExecutionMode`

Inputs for cron trigger: :param start_at: iso format date string to start activating the cron trigger :param end_at: iso format date string to end the cron activation :param inputs: dictionary “name”:”val” of inputs to the function :param cron: cron spec specifying when it should run. more information: <https://en.wikipedia.org/wiki/Cron> :param pipeline_id: Id of pipeline to be triggered :param pipeline: pipeline entity to be triggered :param pipeline_node_id: Id of pipeline root node to be triggered :param root_node_namespace: namespace of pipeline root node to be triggered

Returns Trigger entity

delete(*trigger_id=None, trigger_name=None*)

Delete Trigger object

Parameters

- **trigger_id** –
- **trigger_name** –

Returns True

get(*trigger_id=None, trigger_name=None*) → *dtlpy.entities.trigger.BaseTrigger*

Get Trigger object :param trigger_id: :param trigger_name: :return: Trigger object

list(*filters: Optional[dtlpy.entities.filters.Filters] = None*) → *dtlpy.entities.paged_entities.PagedEntities*

List project packages :param filters: :return:

name_validation(*name: str*)

Parameters **name** –

resource_information(*resource, resource_type, action='Created'*)

return which function should run on a item (based on global triggers)

Parameters

- **resource** – ‘Item’ / ‘Dataset’ / etc
- **resource_type** – dictionary of the resource object
- **action** – ‘Created’ / ‘Updated’ / etc.

update(*trigger: dtlpy.entities.trigger.BaseTrigger*) → *dtlpy.entities.trigger.BaseTrigger*

Parameters **trigger** – Trigger entity

Returns Trigger entity

2.11 Executions

```
class Executions(client_api: dtlpy.services.api_client.ApiClient, service:
    Optional[dtlpy.entities.service.Service] = None, project:
    Optional[dtlpy.entities.project.Project] = None)
```

Bases: `object`

Service Executions repository

```
create(service_id=None, execution_input=None, function_name=None, resource:
    Optional[dtlpy.entities.package_function.PackageInputType] = None, item_id=None,
    dataset_id=None, annotation_id=None, project_id=None, sync=False, stream_logs=False,
    return_output=False, return_curl_only=False, timeout=None) → dtlpy.entities.execution.Execution
Execute a function on an existing service
```

Parameters

- **service_id** – service id to execute on
- **execution_input** – input dictionary or list of FunctionIO entities
- **function_name** – function name to run
- **resource** – input type.
- **item_id** – optional - input to function
- **dataset_id** – optional - input to function
- **annotation_id** – optional - input to function
- **project_id** – resource's project
- **sync** – wait for function to end
- **stream_logs** – prints logs of the new execution. only works with sync=True
- **return_output** – if True and sync is True - will return the output directly
- **return_curl_only** – return the cURL of the creation WITHOUT actually do it
- **timeout** – int, seconds to wait until TimeoutError is raised. if <=0 - wait until done - by default wait take the service timeout

Returns

```
get(execution_id=None, sync=False) → dtlpy.entities.execution.Execution
Get Service execution object
```

Parameters

- **execution_id** –
- **sync** – wait for the execution to finish

Returns Service execution object

```
increment(execution: dtlpy.entities.execution.Execution)
Increment attempts :param execution: :return: int
```

```
list(filters: Optional[dtlpy.entities.filters.Filters] = None) → dtlpy.entities.paged_entities.PagedEntities
List service executions :param filters: dtlpy.entities.filters.Filters entity to filters items :return:
```

logs(*execution_id*, *follow=True*, *until_completed=True*)
executions logs :param execution_id: :param follow: :param until_completed: :return: executions logs

progress_update(*execution_id*: *str*, *status*: *Optional*[*dtlpy.entities.execution.ExecutionStatus*] = *None*,
percent_complete: *Optional*[*int*] = *None*, *message*: *Optional*[*str*] = *None*, *output*:
Optional[*str*] = *None*, *service_version*: *Optional*[*str*] = *None*)

Update Execution Progress

Parameters

- **execution_id** –
- **status** – *ExecutionStatus*
- **percent_complete** –
- **message** –
- **output** –
- **service_version** –

Returns

rerun(*execution*: *dtlpy.entities.execution.Execution*, *sync*: *bool* = *False*)

Increment attempts :param execution: :param sync: :return: int

terminate(*execution*: *dtlpy.entities.execution.Execution*)

Terminate Execution :param execution: :return:

update(*execution*: *dtlpy.entities.execution.Execution*) → *dtlpy.entities.execution.Execution*

Update execution changes to platform :param execution: execution entity :return: execution entity

wait(*execution_id*, *timeout=None*)

Get Service execution object

Parameters

- **execution_id** –
- **timeout** – int, seconds to wait until *TimeoutError* is raised. if <=0 - wait until done - by default wait take the service timeout

Returns Service execution object

2.12 Pipelines

class Pipelines(*client_api*: *dtlpy.services.api_client.ApiClient*, *project*: *Optional*[*dtlpy.entities.project.Project*] = *None*)

Bases: *object*

Pipelines Repository

create(*name=None*, *project_id=None*, *pipeline_json=None*) → *dtlpy.entities.pipeline.Pipeline*

Create a new pipeline :param name: str - pipeline name :param project_id: str - project id :param pipeline_json: dict - json contain the pipeline fields :return: Pipeline object

delete(*pipeline*: *Optional*[*dtlpy.entities.pipeline.Pipeline*] = *None*, *pipeline_name=None*,
pipeline_id=None)

Delete Pipeline object

Parameters

- **pipeline** –
- **pipeline_name** –
- **pipeline_id** –

Returns True

execute(*pipeline: Optional[dtlpy.entities.pipeline.Pipeline] = None, pipeline_id: Optional[str] = None, pipeline_name: Optional[str] = None, execution_input=None*)

execute a pipeline and return the execute :param pipeline: entities.Pipeline object :param pipeline_id: pipeline id :param pipeline_name: pipeline name :param execution_input: list of the dl.FunctionIO or dict of pipeline input - example { 'item': 'item_id' } :return: entities.PipelineExecution object

get(*pipeline_name=None, pipeline_id=None, fetch=None*) → *dtlpy.entities.pipeline.Pipeline*

Get Pipeline object

Parameters

- **pipeline_name** – str
- **pipeline_id** – str
- **fetch** – optional - fetch entity from platform, default taken from cookie

Returns Pipeline object

install(*pipeline: Optional[dtlpy.entities.pipeline.Pipeline] = None*)

install a pipeline :param pipeline: :return: Composition object

list(*filters: Optional[dtlpy.entities.filters.Filters] = None, project_id=None*) → *dtlpy.entities.paged_entities.PagedEntities*

List project pipelines :param filters: :param project_id: :return:

open_in_web(*pipeline=None, pipeline_id=None, pipeline_name=None*)

Parameters

- **pipeline** –
- **pipeline_id** –
- **pipeline_name** –

pause(*pipeline: Optional[dtlpy.entities.pipeline.Pipeline] = None*)

pause a pipeline :param pipeline: :return: Composition object

update(*pipeline: Optional[dtlpy.entities.pipeline.Pipeline] = None*) → *dtlpy.entities.pipeline.Pipeline*

Update pipeline changes to platform

Parameters **pipeline** –

Returns pipeline entity

2.12.1 Pipeline Executions

```
class PipelineExecutions(client_api: dtlpy.services.api_client.ApiClient, project:  
                        Optional[dtlpy.entities.project.Project] = None, pipeline:  
                        Optional[dtlpy.entities.pipeline.Pipeline] = None)
```

Bases: `object`

PipelineExecutions Repository

```
create(pipeline_id: Optional[str] = None, execution_input=None)
```

execute a pipeline and return the execute :param pipeline_id: pipeline id :param execution_input: list of the dl.FunctionIO or dict of pipeline input - example { 'item': 'item_id' } :return: entities.PipelineExecution object

```
get(pipeline_execution_id: str, pipeline_id: Optional[str] = None) → dtlpy.entities.pipeline.Pipeline
```

Get Pipeline Execution object

Parameters

- **pipeline_execution_id** – str
- **pipeline_id** – str

Returns Pipeline object

```
list(filters: Optional[dtlpy.entities.filters.Filters] = None) → dtlpy.entities.paged_entities.PagedEntities
```

List project pipeline executions :param filters: :return:

2.13 General Commands

```
class Commands(client_api: dtlpy.services.api_client.ApiClient)
```

Bases: `object`

Service Commands repository

```
abort(command_id)
```

Abort Command

:param command_id :return:

```
get(command_id=None, url=None) → dtlpy.entities.command.Command
```

Get Service command object

Parameters

- **command_id** –
- **url** – command url

Returns Command object

```
list()
```

List of commands :return:

```
wait(command_id, timeout=0, step=5, url=None)
```

Wait for command to finish

Parameters

- **command_id** – Command id to wait to
- **timeout** – int, seconds to wait until TimeoutError is raised. if 0 - wait until done

- **step** – int, seconds between polling
- **url** – url to the command

Returns Command object

2.13.1 Download Commands

2.13.2 Upload Commands

3.1 Organization

class `MemberOrgRole`(*value*)

Bases: `str`, `enum.Enum`

An enumeration.

class `Organization`(*members: list, groups: list, accounts: list, created_at, updated_at, id, name, logo_url, plan, owner, created_by, client_api: dtlpy.services.api_client.ApiClient, repositories=NOTHING*)

Bases: `dtlpy.entities.base_entity.BaseEntity`

Organization entity

add_member(*email, role: dtlpy.entities.organization.MemberOrgRole = <enum 'MemberOrgRole'>*)

Add member to the Organization

Returns `True`

delete_member(*user_id: str, sure: bool = False, really: bool = False*)

delete member from the Organization

Returns `True`

classmethod `from_json`(*_json, client_api, is_fetched=True*)

Build a Project entity object from a json

Parameters

- **is_fetched** – is Entity fetched from Platform
- **_json** – _json response from host
- **client_api** – ApiClient entity

Returns Project object

list_groups()

list all organization groups

list_members(*role: Optional[dtlpy.entities.organization.MemberOrgRole] = None*)

list all organization members

open_in_web()

Open the organizations in web platform

to_json()

Returns platform _json format of object

Returns platform json format of object

update(*plan*: *str*)

Update the Organization

Returns Organization object

update_member(*email*: *str*, *role*: `dtlpy.entities.organization.MemberOrgRole = MemberOrgRole.MEMBER`)

Update the member role

Returns True

class OrganizationsPlans(*value*)

Bases: `str`, `enum.Enum`

An enumeration.

3.1.1 Integration

class Integration(*id*, *name*, *type*, *org*, *created_at*, *created_by*, *update_at*, *client_api*:

dtlpy.services.api_client.ApiClient, *project=None*)

Bases: `dtlpy.entities.base_entity.BaseEntity`

Integration object

delete(*sure*: *bool* = *False*, *really*: *bool* = *False*) → *bool*

Delete integrations from the Organization :param sure: are you sure you want to delete? :param really: really really? :return: True

classmethod from_json(*_json*: *dict*, *client_api*: *dtlpy.services.api_client.ApiClient*, *is_fetched=True*)

Build a Integration entity object from a json

Parameters

- **_json** – _json response from host
- **client_api** – ApiClient entity
- **is_fetched** – is Entity fetched from Platform

Returns Integration object

to_json()

Returns platform _json format of object

Returns platform json format of object

update(*new_name*: *str*)

Update the integrations name :param new_name:

3.2 Project

class MemberRole(*value*)

Bases: `str`, `enum.Enum`

An enumeration.

class Project(*contributors*, *created_at*, *creator*, *id*, *name*, *org*, *updated_at*, *role*, *account*, *is_blocked*,

feature_constraints, *client_api*: *dtlpy.services.api_client.ApiClient*, *repositories=NOTHING*)

Bases: `dtlpy.entities.base_entity.BaseEntity`

Project entity

checkout()

Checkout the project

Returns

delete(*sure=False, really=False*)

Delete the project forever!

Parameters

- **sure** – are you sure you want to delete?
- **really** – really really?

Returns True

classmethod from_json(*_json, client_api, is_fetched=True*)

Build a Project entity object from a json

Parameters

- **is_fetched** – is Entity fetched from Platform
- **_json** – _json response from host
- **client_api** – ApiClient entity

Returns Project object

open_in_web()

Open the project in web platform

Returns

to_json()

Returns platform _json format of object

Returns platform json format of object

update(*system_metadata=False*)

Update the project

Returns Project object

3.2.1 User

class User(*created_at, updated_at, name, last_name, username, avatar, email, role, type, org, id, project, client_api=None, users=None*)

Bases: `dtlpy.entities.base_entity.BaseEntity`

User entity

classmethod from_json(*_json, project, client_api, users=None*)

Build a User entity object from a json

Parameters

- **_json** – _json response from host
- **project** – project entity
- **client_api** – ApiClient entity
- **users** – Users repository

Returns User object

to_json()

Returns platform _json format of object

Returns platform json format of object

3.3 Dataset

```
class Dataset(id, url, name, annotated, creator, projects, items_count, metadata, directoryTree, export,
               expiration_options, created_at, items_url, readable_type, access_level, driver, readonly,
               client_api: dtlpy.services.api_client.ApiClient, instance_map=None, project=None,
               datasets=None, repositories=NOTHING, ontology_ids=None, labels=None,
               directory_tree=None)
```

Bases: dtlpy.entities.base_entity.BaseEntity

Dataset object

```
add_label(label_name, color=None, children=None, attributes=None, display_label=None, label=None,
           recipe_id=None, ontology_id=None, icon_path=None)
```

Add single label to dataset

Parameters

- **label_name** – str - label name
- **color** –
- **children** –
- **attributes** –
- **display_label** –
- **label** –
- **recipe_id** – optional
- **ontology_id** – optional
- **icon_path** – path to image to be display on label

Returns label entity

```
add_labels(label_list, ontology_id=None, recipe_id=None)
```

Add labels to dataset

Parameters

- **label_list** –
- **ontology_id** – optional
- **recipe_id** – optional

Returns label entities

```
checkout()
```

Checkout the dataset

Returns

clone(*clone_name*, *filters=None*, *with_items_annotations=True*, *with_metadata=True*,
with_task_annotations_status=True)

Clone dataset

Parameters

- **clone_name** – new dataset name
- **filters** – Filters entity or a query dict
- **with_items_annotations** – clone all item's annotations
- **with_metadata** – clone metadata
- **with_task_annotations_status** – clone task annotations status

Returns

delete(*sure=False*, *really=False*)

Delete a dataset forever!

Parameters

- **sure** – are you sure you want to delete?
- **really** – really really?

Returns

delete_labels(*label_names*)

Delete labels from dataset's ontologies

Parameters **label_names** – label object/ label name / list of label objects / list of label names

Returns

download(*filters=None*, *local_path=None*, *file_types=None*, *annotation_options:*
Optional[dtlpy.entities.annotation.ViewAnnotationOptions] = None, *annotation_filters=None*,
overwrite=False, *to_items_folder=True*, *thickness=1*, *with_text=False*,
without_relative_path=None, *alpha=None*)

Download dataset by filters. Filtering the dataset for items and save them local Optional - also download annotation, mask, instance and image mask of the item

Parameters

- **filters** – Filters entity or a dictionary containing filters parameters
- **local_path** – local folder or filename to save to.
- **file_types** – a list of file type to download. e.g ['video/webm', 'video/mp4', 'image/jpeg', 'image/png']
- **annotation_options** – download annotations options: list(dl.ViewAnnotationOptions) not relevant for JSON option
- **annotation_filters** – Filters entity to filter annotations for download not relevant for JSON option
- **overwrite** – optional - default = False
- **to_items_folder** – Create 'items' folder and download items to it
- **thickness** – optional - line thickness, if -1 annotation will be filled, default = 1
- **with_text** – optional - add text to annotations, default = False

- **without_relative_path** – string - remote path - download items without the relative path from platform
- **alpha** – opacity value [0 1], default 1

Returns *List* of local_path per each downloaded item

download_annotations(*local_path=None, filters=None, annotation_options: Optional[dtlpy.entities.annotation.ViewAnnotationOptions] = None, annotation_filters=None, overwrite=False, thickness=1, with_text=False, remote_path=None, include_annotations_in_output=True, export_png_files=False, filter_output_annotations=False, alpha=None*)

Download dataset by filters. Filtering the dataset for items and save them local Optional - also download annotation, mask, instance and image mask of the item

Parameters

- **local_path** – local folder or filename to save to.
- **filters** – Filters entity or a dictionary containing filters parameters
- **annotation_options** – download annotations options: list(dl.ViewAnnotationOptions)
- **annotation_filters** – Filters entity to filter annotations for download
- **overwrite** – optional - default = False
- **thickness** – optional - line thickness, if -1 annotation will be filled, default =1
- **with_text** – optional - add text to annotations, default = False
- **remote_path** – DEPRECATED and ignored. use filters
- **include_annotations_in_output** – default - False , if export should contain annotations
- **export_png_files** – default - True, if semantic annotations should exported as png files
- **filter_output_annotations** – default - False, given an export by filter - determine if to filter out annotations
- **alpha** – opacity value [0 1], default 1

Returns *List* of local_path per each downloaded item

download_partition(*partition, local_path=None, filters=None, annotation_options=None*)

Download a specific partition of the dataset to local_path This function is commonly used with dl.ModelAdapter which implements the convert to specific model structure

Parameters

- **partition** – dl.SnapshotPartitionType name of the partition
- **local_path** – local path directory to download the data
- **filters** – dl.entities.Filters to add the specific partitions constraint to

:return *List str* of the new downloaded path of each item

classmethod from_json(*project: dtlpy.entities.project.Project, _json: dict, client_api: dtlpy.services.api_client.ApiClient, datasets=None, is_fetched=True*)

Build a Dataset entity object from a json

Parameters

- **project** – dataset's project

- **_json** – _json response from host
- **client_api** – ApiClient entity
- **datasets** – Datasets repository
- **is_fetched** – is Entity fetched from Platform

Returns Dataset object

get_partitions(*partitions*, *filters*=None, *batch_size*: *Optional[int]* = None)

Returns PagedEntity of items from one or more partitions

Parameters

- **partitions** – *dl.entities.SnapshotPartitionType* or a list. Name of the partitions
- **filters** – *dl.Filters* to add the specific partitions constraint to
- **batch_size** – *int* how many items per page

Returns *dl.PagedEntities* of *dl.Item* preforms items.list()

get_recipe_ids()

Get dataset recipe Ids

Returns list of recipe ids

open_in_web()

Open the dataset in web platform

Returns

static serialize_labels(*labels_dict*)

Convert hex color format to rgb

Parameters **labels_dict** – dict of labels

Returns dict of converted labels

set_partition(*partition*, *filters*=None)

Updates all items returned by filters in the dataset to specific partition

Parameters

- **partition** – *dl.entities.SnapshotPartitionType* to set to
- **filters** – *dl.entities.Filters* to add the specific partitions constraint to

Returns *dl.PagedEntities*

set_readonly(*state*: *bool*)

Set dataset readonly mode :param state: :return:

switch_recipe(*recipe_id*=None, *recipe*=None)

Switch the recipe that linked to the dataset with the given one

Param *recipe_id*

Param *recipe*

Returns

sync(*wait*=True)

Sync dataset with external storage :param wait: wait the command to finish :return:

to_json()

Returns platform _json format of object

Returns platform json format of object

update(*system_metadata=False*)

Update dataset field

Parameters **system_metadata** – bool - True, if you want to change metadata system

Returns

update_label(*label_name, color=None, children=None, attributes=None, display_label=None, label=None, recipe_id=None, ontology_id=None, upsert=False, icon_path=None*)

Add single label to dataset

Parameters

- **label_name** –
- **color** –
- **children** –
- **attributes** –
- **display_label** –
- **label** –
- **recipe_id** – optional
- **ontology_id** – optional
- **upsert** – if True will add in case it does not existing
- **icon_path** – path to image to be display on label

Returns label entity

update_labels(*label_list, ontology_id=None, recipe_id=None, upsert=False*)

Add labels to dataset

Parameters

- **label_list** –
- **ontology_id** – optional
- **recipe_id** – optional
- **upsert** – if True will add in case it does not existing

Returns label entities

upload_annotations(*local_path, filters=None, clean=False, remote_root_path='/'*)

Upload annotations to dataset.

Parameters

- **local_path** – str - local folder where the annotations files is.
- **filters** – Filters entity or a dictionary containing filters parameters
- **clean** – bool - if True it remove the old annotations
- **remote_root_path** – str - the remote root path to match remote and local items

For example, if the item filepath is a/b/item and remote_root_path is /a the start folder will be b instead of a :return:

class `ExpirationOptions`(*item_max_days*: *Optional[int]* = *None*)

Bases: `object`

ExpirationOptions object

3.3.1 Driver

class `Driver`(*bucket_name*, *creator*, *allow_external_delete*, *allow_external_modification*, *created_at*, *region*, *path*, *type*, *integration_id*, *metadata*, *name*, *id*, *client_api*: *dtlpy.services.api_client.ApiClient*)

Bases: `dtlpy.entities.base_entity.BaseEntity`

Driver entity

classmethod `from_json`(*_json*, *client_api*, *is_fetched*=*True*)

Build a Driver entity object from a json

Parameters

- **_json** – _json response from host
- **client_api** – ApiClient entity
- **is_fetched** – is Entity fetched from Platform

Returns Driver object

to_json()

Returns platform _json format of object

Returns platform json format of object

class `ExternalStorage`(*value*)

Bases: `str`, `enum.Enum`

An enumeration.

3.4 Item

class `Item`(*annotations_link*, *dataset_url*, *thumbnail*, *created_at*, *dataset_id*, *annotated*, *metadata*, *filename*, *stream*, *name*, *type*, *url*, *id*, *hidden*, *dir*, *spec*, *creator*, *annotations_count*, *client_api*: *dtlpy.services.api_client.ApiClient*, *platform_dict*, *dataset*, *project*, *repositories*=*NOTHING*)

Bases: `dtlpy.entities.base_entity.BaseEntity`

Item object

clone(*dst_dataset_id*=*None*, *remote_filepath*=*None*, *metadata*=*None*, *with_annotations*=*True*, *with_metadata*=*True*, *with_task_annotations_status*=*False*, *allow_many*=*False*, *wait*=*True*)

Clone item :param *dst_dataset_id*: destination dataset id :param *remote_filepath*: complete filepath :param *metadata*: new metadata to add :param *with_annotations*: clone annotations :param *with_metadata*: clone metadata :param *with_task_annotations_status*: clone task annotations status :param *allow_many*: *bool* if True use multiple clones in single dataset is allowed, (default=False) :param *wait*: wait the command to finish

Returns Item

delete()

Delete item from platform :return: *True*

download(*local_path=None, file_types=None, save_locally=True, to_array=False, annotation_options: Optional[dtlpy.entities.annotation.ViewAnnotationOptions] = None, overwrite=False, to_items_folder=True, thickness=1, with_text=False, annotation_filters=None, alpha=None*)

Download dataset by filters. Filtering the dataset for items and save them local Optional - also download annotation, mask, instance and image mask of the item

Parameters

- **local_path** – local folder or filename to save to disk or returns BytelsIO
- **file_types** – a list of file type to download. e.g ['video/webm', 'video/mp4', 'image/jpeg', 'image/png']
- **save_locally** – bool. save to disk or return a buffer
- **to_array** – returns Nddarray when True and local_path = False
- **annotation_options** – download annotations options: list(dl.ViewAnnotationOptions)
- **overwrite** – optional - default = False
- **to_items_folder** – Create 'items' folder and download items to it
- **thickness** – optional - line thickness, if -1 annotation will be filled, default =1
- **with_text** – optional - add text to annotations, default = False
- **annotation_filters** – Filters entity to filter annotations for download
- **alpha** – opacity value [0 1], default 1

Returns Output (list)

classmethod from_json(*_json, client_api, dataset=None, project=None, is_fetched=True*)

Build an item entity object from a json :param project: project entity :param _json: _json response from host :param dataset: dataset in which the annotation's item is located :param client_api: ApiClient entity :param is_fetched: is Entity fetched from Platform :return: Item object

move(*new_path*)

Move item from one folder to another in Platform If the directory doesn't exist it will be created :param new_path: new full path to move item to. :return: True if update successfully

open_in_web()

Open the items in web platform

Returns

set_description(*text: str*)

Update Item description

Parameters **text** – if None or "" description will be deleted

:return

to_json()

Returns platform _json format of object :return: platform json format of object

update(*system_metadata=False*)

Update items metadata :param system_metadata: bool - True, if you want to change metadata system :return: Item object

update_status(*status: str, clear: bool = False, assignment_id: Optional[str] = None, task_id: Optional[str] = None*)

update item status

Parameters

- **status** (*str*) – “completed” ,”approved” ,”discard”
- **clear** (*bool*) – if true delete status
- **assignment_id** (*str*) – assignment id
- **task_id** (*str*) – task id

:return :True/False

class ItemStatus(*value*)
 Bases: *str*, *enum.Enum*
 An enumeration.

class ModalityRefTypeEnum(*value*)
 Bases: *str*, *enum.Enum*
 State enum

class ModalityTypeEnum(*value*)
 Bases: *str*, *enum.Enum*
 State enum

3.4.1 Item Link

class LinkTypeEnum(*value*)
 Bases: *str*, *enum.Enum*
 State enum

3.5 Annotation

class Annotation(*annotation_definition*:
dtlpy.entities.annotation_definitions.base_annotation_definition.BaseAnnotationDefinition, *id*,
url, *item_url*, *item*, *item_id*, *creator*, *created_at*, *updated_by*, *updated_at*, *type*, *source*,
dataset_url, *platform_dict*, *metadata*, *fps*, *hash=None*, *dataset_id=None*, *status=None*,
object_id=None, *automated=None*, *item_height=None*, *item_width=None*,
label_suggestions=None, *frames=None*, *current_frame=0*, *end_frame=0*, *end_time=0*,
start_frame=0, *start_time=0*, *dataset=None*, *datasets=None*, *annotations=None*,
Annotation__client_api=None, *items=None*, *recipe_2_attributes=None*)

Bases: *dtlpy.entities.base_entity.BaseEntity*

Annotations object

add_frame(*annotation_definition*, *frame_num=None*, *fixed=True*, *object_visible=True*)
 Add a frame state to annotation

Parameters

- **annotation_definition** – annotation type object - must be same type as annotation
- **frame_num** – frame number
- **fixed** – is fixed
- **object_visible** – does the annotated object is visible

Returns annotation object

add_frames(*annotation_definition*, *frame_num=None*, *end_frame_num=None*, *start_time=None*, *end_time=None*, *fixed=True*, *object_visible=True*)

Add a frames state to annotation

Parameters

- **annotation_definition** – annotation type object - must be same type as annotation
- **frame_num** – first frame number
- **end_frame_num** – last frame number
- **start_time** – starting time for video
- **end_time** – ending time for video
- **fixed** – is fixed
- **object_visible** – does the annotated object is visible

Returns annotation object

delete()

Remove an annotation from item :return: True

download(*filepath*, *annotation_format: dtlpy.entities.annotation.ViewAnnotationOptions = ViewAnnotationOptions.MASK*, *height=None*, *width=None*, *thickness=1*, *with_text=False*, *alpha=None*)

Save annotation to file :param filepath: local path to where annotation will be downloaded to :param annotation_format: options: list(dl.ViewAnnotationOptions) :param height: image height :param width: image width :param thickness: thickness :param with_text: get mask with text :param alpha: opacity value [0 1], default 1 :return: filepath

classmethod from_json(*_json*, *item=None*, *client_api=None*, *annotations=None*, *is_video=None*, *fps=None*, *item_metadata=None*, *dataset=None*, *is_audio=None*)

Create an annotation object from platform json :param _json: platform json :param item: item :param client_api: ApiClient entity :param annotations: :param is_video: :param fps: :param item_metadata: :param dataset: :param is_audio: :return: annotation object

classmethod new(*item=None*, *annotation_definition=None*, *object_id=None*, *automated=True*, *metadata=None*, *frame_num=None*, *parent_id=None*, *start_time=None*, *item_height=None*, *item_width=None*)

Create a new annotation object annotations

Parameters

- **item** – item to annotate
- **annotation_definition** – annotation type object
- **object_id** – object_id
- **automated** – is automated
- **metadata** – metadata
- **frame_num** – optional - first frame number if video annotation
- **parent_id** – add parent annotation ID
- **start_time** – optional - start time if video annotation
- **item_height** – annotation item's height
- **item_width** – annotation item's width

Returns annotation object

set_frame(*frame*)

Set annotation to frame state :param frame: frame number :return: True

show(*image=None, thickness=None, with_text=False, height=None, width=None, annotation_format: dtlpy.entities.annotation.ViewAnnotationOptions = ViewAnnotationOptions.MASK, color=None, label_instance_dict=None, alpha=None*)

Show annotations mark the annotation of the image array and return it :param image: empty or image to draw on :param thickness: line thickness :param with_text: add label to annotation :param height: height :param width: width :param annotation_format: list(dl.ViewAnnotationOptions) :param color: optional - color tuple :param label_instance_dict: the instance labels :param alpha: opacity value [0 1], default 1 :return: list or single ndarray of the annotations

to_json()

Convert annotation object to a platform json representation :return: platform json

update(*system_metadata=False*)

Update an existing annotation in host. :param system_metadata: True, if you want to change metadata system

Returns Annotation object

update_status(*status: dtlpy.entities.annotation.AnnotationStatus = AnnotationStatus.ISSUE*)

Open an issue on the annotation

Parameters **status** – can be AnnotationStatus.ISSUE, AnnotationStatus.APPROVED, AnnotationStatus.REVIEW, AnnotationStatus.CLEAR

Returns Annotation object or None

upload()

Create a new annotation in host :return:

class **AnnotationStatus**(*value*)

Bases: `str`, `enum.Enum`

An enumeration.

class **AnnotationType**(*value*)

Bases: `str`, `enum.Enum`

An enumeration.

class **FrameAnnotation**(*annotation, annotation_definition, frame_num, fixed, object_visible, recipe_2_attributes=None, interpolation=False*)

Bases: `dtlpy.entities.base_entity.BaseEntity`

FrameAnnotation object

classmethod **from_snapshot**(*annotation, _json, fps*)

new frame state to annotation :param annotation: annotation :param _json: annotation type object - must be same type as annotation :param fps: frame number :return: FrameAnnotation object

classmethod **new**(*annotation, annotation_definition, frame_num, fixed, object_visible=True*)

new frame state to annotation :param annotation: annotation :param annotation_definition: annotation type object - must be same type as annotation :param frame_num: frame number :param fixed: is fixed :param object_visible: does the annotated object is visible :return: FrameAnnotation object

show(***kwargs*)

Show annotation as ndarray :param kwargs: see annotation definition :return: ndarray of the annotation

```
class ViewAnnotationOptions(value)
```

Bases: `str`, `enum.Enum`

An enumeration.

3.5.1 Collection of Annotation entities

```
class AnnotationCollection(item=None, annotations=NOTHING, dataset=None, colors=None)
```

Bases: `dtlpy.entities.base_entity.BaseEntity`

Collection of Annotation entity

```
add(annotation_definition, object_id=None, frame_num=None, end_frame_num=None, start_time=None,
      end_time=None, automated=True, fixed=True, object_visible=True, metadata=None, parent_id=None,
      model_info=None)
```

Add annotations to collection

Parameters

- **annotation_definition** – `dl.Polygon`, `dl.Segmentation`, `dl.Point`, `dl.Box` etc
- **object_id** – Object id (any id given by user). If video - must input to match annotations between frames
- **frame_num** – video only, number of frame
- **end_frame_num** – video only, the end frame of the annotation
- **start_time** – video only, start time of the annotation
- **end_time** – video only, end time of the annotation
- **automated** –
- **fixed** – video only, mark frame as fixed
- **object_visible** – video only, does the annotated object is visible
- **metadata** – optional- metadata dictionary for annotation
- **parent_id** – set a parent for this annotation (parent annotation ID)
- **model_info** – optional - set model on annotation { 'name':',', 'confidence':0 }

Returns

```
download(filepath, img_filepath=None, annotation_format: dtlpy.entities.annotation.ViewAnnotationOptions
          = ViewAnnotationOptions.MASK, height=None, width=None, thickness=1, with_text=False,
          orientation=0, alpha=None)
```

Save annotations to file

Parameters

- **filepath** – path to save annotation
- **img_filepath** – img file path - needed for `img_mask`
- **annotation_format** – how to show thw annotations. options:
list(`dl.ViewAnnotationOptions`)
- **height** – height
- **width** – width

- **thickness** – thickness
- **with_text** – add a text to the image
- **orientation** – the image orientation
- **alpha** – opacity value [0 1], default 1

Returns

from_instance_mask(*mask*, *instance_map=None*)

convert annotation from instance mask format :param mask: the mask annotation :param instance_map: labels

from_vtt_file(*filepath*)

convert annotation from vtt format :param filepath: path to the file

get_frame(*frame_num*)

Parameters *frame_num* –

Returns AnnotationCollection

print(*to_return=False*, *columns=None*)

Parameters

- **to_return** –
- **columns** –

show(*image=None*, *thickness=None*, *with_text=False*, *height=None*, *width=None*, *annotation_format: dtlpy.entities.annotation.ViewAnnotationOptions = ViewAnnotationOptions.MASK*, *label_instance_dict=None*, *color=None*, *alpha=None*)

Show annotations according to *annotation_format*

Parameters

- **image** – empty or image to draw on
- **height** – height
- **width** – width
- **thickness** – line thickness
- **with_text** – add label to annotation
- **annotation_format** – how to show thw annotations. options: list([dtlpy.entities.annotation.ViewAnnotationOptions](#))
- **label_instance_dict** – instance label map {'Label': 1, 'More': 2}
- **color** – optional - color tuple
- **alpha** – opacity value [0 1], default 1

Returns ndarray of the annotations

3.5.2 Annotation Definition

3.5.2.1 Box Annotation Definition

```
class Box(left=None, top=None, right=None, bottom=None, label=None, attributes=None, description=None,
            angle=None)
    Bases: dtlpy.entities.annotation_definitions.base_annotation_definition.
            BaseAnnotationDefinition

    Box annotation object Can create a box using 2 point using: “top”, “left”, “bottom”, “right” (to form a box [(left,
    top), (right, bottom)]) For rotated box add the “angel”

    classmethod from_segmentation(mask, label, attributes=None)
        Convert binary mask to Polygon

        Parameters
        • mask – binary mask (0,1)
        • label – annotation label
        • attributes – annotations list of attributes

        Returns Box annotations list to each separated segmentation

    show(image, thickness, with_text, height, width, annotation_format, color, alpha=1)
        Show annotation as ndarray :param image: empty or image to draw on :param thickness: :param with_text:
        not required :param height: item height :param width: item width :param annotation_format: options:
        list(dl.ViewAnnotationOptions) :param color: color :param alpha: opacity value [0 1], default 1 :return:
        ndarray
```

3.5.2.2 Classification Annotation Definition

```
class Classification(label, attributes=None, description=None)
    Bases: dtlpy.entities.annotation_definitions.base_annotation_definition.
            BaseAnnotationDefinition

    Classification annotation object

    show(image, thickness, with_text, height, width, annotation_format, color, alpha=1)
        Show annotation as ndarray :param image: empty or image to draw on :param thickness: :param with_text:
        not required :param height: item height :param width: item width :param annotation_format: options:
        list(dl.ViewAnnotationOptions) :param color: color :param alpha: opacity value [0 1], default 1 :return:
        ndarray
```

3.5.2.3 Cuboid Annotation Definition

```
class Cube(label, front_tl, front_tr, front_br, front_bl, back_tl, back_tr, back_br, back_bl, angle=None,
            attributes=None, description=None)
    Bases: dtlpy.entities.annotation_definitions.base_annotation_definition.
            BaseAnnotationDefinition

    Cube annotation object

    classmethod from_boxes_and_angle(front_left, front_top, front_right, front_bottom, back_left, back_top,
                                    back_right, back_bottom, label, angle=0, attributes=None)
        Create cuboid by given front and back boxes with angle the angle calculate fom the center of each box
```

show(*image, thickness, with_text, height, width, annotation_format, color, alpha=1*)

Show annotation as ndarray :param image: empty or image to draw on :param thickness: :param with_text: not required :param height: item height :param width: item width :param annotation_format: options: list(dl.ViewAnnotationOptions) :param color: color :param alpha: opacity value [0 1], default 1 :return: ndarray

3.5.2.4 Item Description Definition

class Description(*text, description=None*)

Bases: `dtlpy.entities.annotation_definitions.base_annotation_definition.BaseAnnotationDefinition`

Subtitle annotation object

3.5.2.5 Ellipse Annotation Definition

class Ellipse(*x, y, rx, ry, angle, label, attributes=None, description=None*)

Bases: `dtlpy.entities.annotation_definitions.base_annotation_definition.BaseAnnotationDefinition`

Ellipse annotation object

show(*image, thickness, with_text, height, width, annotation_format, color, alpha=1*)

Show annotation as ndarray :param image: empty or image to draw on :param thickness: :param with_text: not required :param height: item height :param width: item width :param annotation_format: options: list(dl.ViewAnnotationOptions) :param color: color :param alpha: opacity value [0 1], default 1 :return: ndarray

3.5.2.6 Note Annotation Definition

class Message(*msg_id: Optional[str] = None, creator: Optional[str] = None, msg_time=None, body: Optional[str] = None*)

Bases: `object`

Note message object

class Note(*left, top, right, bottom, label, attributes=None, messages=None, status='issue', assignee=None, create_time=None, creator=None, description=None*)

Bases: `dtlpy.entities.annotation_definitions.box.Box`

Note annotation object

3.5.2.7 Point Annotation Definition

class Point(*x, y, label, attributes=None, description=None*)

Bases: `dtlpy.entities.annotation_definitions.base_annotation_definition.BaseAnnotationDefinition`

Point annotation object

show(*image, thickness, with_text, height, width, annotation_format, color, alpha=1*)

Show annotation as ndarray :param image: empty or image to draw on :param thickness: :param with_text: not required :param height: item height :param width: item width :param annotation_format: options: list(dl.ViewAnnotationOptions) :param color: color :param alpha: opacity value [0 1], default 1 :return: ndarray

3.5.2.8 Polygon Annotation Definition

```
class Polygon(geo, label, attributes=None, description=None)
    Bases: dtlpy.entities.annotation_definitions.base_annotation_definition.
            BaseAnnotationDefinition
    Polygon annotation object

classmethod from_segmentation(mask, label, attributes=None, epsilon=None, max_instances=1,
                               min_area=0)
    Convert binary mask to Polygon

Parameters
    • mask – binary mask (0,1)
    • label – annotation label
    • attributes – annotations list of attributes
    • epsilon – from opencv: specifying the approximation accuracy. This is the maximum
      distance between the original curve and its approximation. if 0 all points are returns
    • max_instances – number of max instances to return. if None all wil be returned
    • min_area – remove polygons with area lower thn this threshold (pixels)

Returns Polygon annotation

show(image, thickness, with_text, height, width, annotation_format, color, alpha=1)
    Show annotation as ndarray :param image: empty or image to draw on :param thickness: :param with_text:
    not required :param height: item height :param width: item width :param annotation_format: options:
    list(dl.ViewAnnotationOptions) :param color: color :param alpha: opacity value [0 1], default 1 :return:
    ndarray
```

3.5.2.9 Polyline Annotation Definition

```
class Polyline(geo, label, attributes=None, description=None)
    Bases: dtlpy.entities.annotation_definitions.base_annotation_definition.
            BaseAnnotationDefinition
    Polyline annotation object

show(image, thickness, with_text, height, width, annotation_format, color, alpha=1)
    Show annotation as ndarray :param image: empty or image to draw on :param thickness: :param with_text:
    not required :param height: item height :param width: item width :param annotation_format: options:
    list(dl.ViewAnnotationOptions) :param color: color :param alpha: opacity value [0 1], default 1 :return:
    ndarray
```

3.5.2.10 Pose Annotation Definition

```
class Pose(label, template_id, instance_id=None, attributes=None, points=None, description=None)
    Bases: dtlpy.entities.annotation_definitions.base_annotation_definition.
            BaseAnnotationDefinition
    Classification annotation object

show(image, thickness, with_text, height, width, annotation_format, color, alpha=1)
    Show annotation as ndarray :param image: empty or image to draw on :param thickness: :param with_text:
    not required :param height: item height :param width: item width :param annotation_format: options:
```


list(dl.ViewAnnotationOptions) :param color: color :param alpha: opacity value [0 1], default 1 :return: ndarray

3.5.2.11 Segmentation Annotation Definition

class Segmentation(*geo, label, attributes=None, description=None*)

Bases: dtlpy.entities.annotation_definitions.base_annotation_definition.
BaseAnnotationDefinition

Segmentation annotation object

classmethod from_polygon(*geo, label, shape, attributes=None*)

Parameters

- **geo** – list of x,y coordinates of the polygon ([[x,y],[x,y]...])
- **label** – annotation's label
- **shape** – image shape (h,w)
- **attributes** –

Returns

show(*image, thickness, with_text, height, width, annotation_format, color, alpha=1*)

Show annotation as ndarray :param image: empty or image to draw on :param thickness: :param with_text: not required :param height: item height :param width: item width :param annotation_format: options: list(dl.ViewAnnotationOptions) :param color: color :param alpha: opacity value [0 1], default 1 :return: ndarray

to_box()

Returns Box annotations list to each separated segmentation

3.5.2.12 Audio Annotation Definition

class Subtitle(*text, label, attributes=None, description=None*)

Bases: dtlpy.entities.annotation_definitions.base_annotation_definition.
BaseAnnotationDefinition

Subtitle annotation object

3.5.2.13 Undefined Annotation Definition

class UndefinedAnnotationType(*type, label, coordinates, attributes=None, description=None*)

Bases: dtlpy.entities.annotation_definitions.base_annotation_definition.
BaseAnnotationDefinition

UndefinedAnnotationType annotation object

show(*image, thickness, with_text, height, width, annotation_format, color, alpha=1*)

Show annotation as ndarray :param image: empty or image to draw on :param thickness: :param with_text: not required :param height: item height :param width: item width :param annotation_format: options: list(dl.ViewAnnotationOptions) :param color: color :param alpha: opacity value [0 1], default 1 :return: ndarray

3.5.3 Similarity

```
class Collection(type: dtlpy.entities.similarity.CollectionTypes, name, items=None)
    Bases: object
    Base Collection Entity

    add(ref, type: dtlpy.entities.similarity.SimilarityTypeEnum = SimilarityTypeEnum.ID)
        Add item to collection :param ref: :param type: url, id

    pop(ref)

        Parameters ref –

    to_json()
        Returns platform _json format of object

        Returns platform json format of object

class CollectionItem(type: dtlpy.entities.similarity.SimilarityTypeEnum, ref)
    Bases: object
    Base CollectionItem

class CollectionTypes(value)
    Bases: str, enum.Enum
    An enumeration.

class MultiView(name, items=None)
    Bases: dtlpy.entities.similarity.Collection
    Multi Entity

    property items
        list of the collection items

    to_json()
        Returns platform _json format of object

        Returns platform json format of object

class MultiViewItem(type, ref)
    Bases: dtlpy.entities.similarity.CollectionItem
    Single multi view item

class Similarity(ref, name=None, items=None)
    Bases: dtlpy.entities.similarity.Collection
    Similarity Entity

    property items
        list of the collection items

    property target
        Target item for similarity

    to_json()
        Returns platform _json format of object

        Returns platform json format of object
```

```
class SimilarityItem(type, ref, target=False)
    Bases: dtlpy.entities.similarity.CollectionItem
    Single similarity item

class SimilarityTypeEnum(value)
    Bases: str, enum.Enum
    State enum
```

3.6 Filter

```
class Filters(field=None, values=None, operator: Optional[dtlpy.entities.filters.FiltersOperations] = None,
              method: Optional[dtlpy.entities.filters.FiltersMethod] = None, custom_filter=None, resource:
              dtlpy.entities.filters.FiltersResource = FiltersResource.ITEM, use_defaults=True, context=None)
    Bases: object
    Filters entity to filter items from pages in platform

    add(field, values, operator: Optional[dtlpy.entities.filters.FiltersOperations] = None, method:
        Optional[dtlpy.entities.filters.FiltersMethod] = None)
        Add filter :param field: Metadata field / attribute :param values: field values :param operator: optional - in,
        gt, lt, eq, ne :param method: Optional - or/and :return:

    add_join(field, values, operator: Optional[dtlpy.entities.filters.FiltersOperations] = None, method:
        dtlpy.entities.filters.FiltersMethod = FiltersMethod.AND)
        join a query to the filter :param field: :param values: :param operator: optional - in, gt, lt, eq, ne :param
        method: optional - str - FiltersMethod.AND, FiltersMethod.OR

    generate_url_query_params(url)
        :param url"

    has_field(field)

        Parameters field –

    pop(field)

        Parameters field –

    pop_join(field)

        Parameters field –

    prepare(operation=None, update=None, query_only=False, system_update=None, system_metadata=False)
        To dictionary for platform call :param operation: :param update: :param query_only: :param sys-
        tem_update: :param system_metadata: True, if you want to change metadata system :return: dict

    sort_by(field, value: dtlpy.entities.filters.FiltersOrderByDirection = FiltersOrderByDirection.ASCENDING)

        Parameters
        • field –
        • value – FiltersOrderByDirection.ASCENDING, FiltersOrderByDirec-
            tion.DESCENDING
```

class FiltersKnownFields(*value*)

Bases: `str`, `enum.Enum`

An enumeration.

class FiltersMethod(*value*)

Bases: `str`, `enum.Enum`

An enumeration.

class FiltersOperations(*value*)

Bases: `str`, `enum.Enum`

An enumeration.

class FiltersOrderByDirection(*value*)

Bases: `str`, `enum.Enum`

An enumeration.

class FiltersResource(*value*)

Bases: `str`, `enum.Enum`

An enumeration.

3.7 Recipe

class Recipe(*id*, *creator*, *url*, *title*, *project_ids*, *description*, *ontology_ids*, *instructions*, *examples*, *custom_actions*, *metadata*, *ui_settings*, *client_api*: `dtlpy.services.api_client.ApiClient`, *dataset=None*, *project=None*, *repositories=NOTHING*)

Bases: `dtlpy.entities.base_entity.BaseEntity`

Recipe object

clone(*shallow=False*)

Clone Recipe

Parameters **shallow** – If True, link ot existing ontology, clones all ontology that are link to the recipe as well

Returns Cloned ontology object

delete()

Delete recipe from platform

Returns True

classmethod from_json(*_json*, *client_api*, *dataset=None*, *project=None*, *is_fetched=True*)

Build a Recipe entity object from a json

Parameters

- **_json** – _json response from host
- **dataset** – recipe’s dataset
- **project** – recipe’s project
- **client_api** – ApiClient entity
- **is_fetched** – is Entity fetched from Platform

Returns Recipe object

get_annotation_template_id(*template_name*)

Get annotation template id by template name

Parameters **template_name** –

Returns template id or None if does not exist

open_in_web()

Open the recipes in web platform

Returns

to_json()

Returns platform _json format of object

Returns platform json format of object

update(*system_metadata=False*)

Update Recipe

Parameters **system_metadata** – bool - True, if you want to change metadata system

Returns Recipe object

3.7.1 Ontology

class Ontology(*client_api: dtlpy.services.api_client.ApiClient, id, creator, url, title, labels, metadata, attributes, recipe=None, dataset=None, project=None, repositories=NOTHING, instance_map=None*)

Bases: dtlpy.entities.base_entity.BaseEntity

Ontology object

add_label(*label_name, color=None, children=None, attributes=None, display_label=None, label=None, add=True, icon_path=None, update_ontology=False*)

Add a single label to ontology

Parameters

- **label_name** – label name
- **color** – optional - if not given a random color will be selected
- **children** – optional - children
- **attributes** – optional - attributes
- **display_label** – optional - display_label
- **label** –
- **add** –
- **icon_path** – path to image to be display on label
- **update_ontology** – update the ontology, default = False for backward compatible

Returns Label entity

add_labels(*label_list, update_ontology=False*)

Adds a list of labels to ontology

Parameters

- **label_list** – list of labels [{"value": {"tag": "tag", "displayLabel": "displayLabel", "color": "#color", "attributes": [attributes]}, "children": [children]}]
- **update_ontology** – update the ontology, default = False for backward compatible

Returns List of label entities added

delete()

Delete recipe from platform

Returns True

delete_labels(label_names)

Delete labels from ontology

Parameters **label_names** – label object/ label name / list of label objects / list of label names

Returns

classmethod from_json(_json, client_api, recipe, dataset=None, project=None, is_fetched=True)

Build an Ontology entity object from a json

Parameters

- **is_fetched** – is Entity fetched from Platform
- **project** – project entity
- **dataset** – dataset entity
- **_json** – _json response from host
- **recipe** – ontology's recipe
- **client_api** – ApiClient entity

Returns Ontology object

to_json()

Returns platform _json format of object

Returns platform json format of object

update(system_metadata=False)

Update items metadata

Parameters **system_metadata** – bool - True, if you want to change metadata system

Returns Ontology object

update_label(label_name, color=None, children=None, attributes=None, display_label=None, label=None, add=True, icon_path=None, upsert=False, update_ontology=False)

Update a single label to ontology

Parameters

- **label_name** – label name
- **color** – optional - if not given a random color will be selected
- **children** – optional - children
- **attributes** – optional - attributes
- **display_label** – optional - display_label
- **label** –

- **add** –
- **icon_path** – path to image to be display on label
- **upsert** – if True will add in case it does not existing
- **update_ontology** – update the ontology, default = False for backward compatible

Returns Label entity

update_labels(*label_list*, *upsert=False*, *update_ontology=False*)

Update a list of labels to ontology

Parameters

- **label_list** – list of labels [{"value": {"tag": "tag", "displayLabel": "displayLabel", "color": "#color", "attributes": [attributes]}, "children": [children]}]
- **upsert** – if True will add in case it does not existing
- **update_ontology** – update the ontology, default = False for backward compatible

Returns List of label entities added

3.7.1.1 Label

3.8 Task

class Task(*name*, *status*, *project_id*, *metadata*, *id*, *url*, *task_owner*, *item_status*, *creator*, *due_date*, *dataset_id*, *spec*, *recipe_id*, *query*, *assignmentIds*, *annotation_status*, *progress*, *for_review*, *issues*, *updated_at*, *created_at*, *available_actions*, *total_items*, *client_api*, *current_assignments=None*, *assignments=None*, *project=None*, *dataset=None*, *tasks=None*, *settings=None*)

Bases: `object`

Task object

add_items(*filters=None*, *items=None*, *assignee_ids=None*, *workload=None*, *limit=0*, *wait=True*)

Parameters

- **filters** – Filters entity or a dictionary containing filters parameters
- **items** – items list for the assignment
- **assignee_ids** – list of assignee for the assignment
- **workload** – the load of work
- **limit** –
- **wait** – wait the command to finish

Returns

create_assignment(*assignment_name*, *assignee_id*, *items=None*, *filters=None*)

Parameters

- **assignment_name** – assignment name
- **assignee_id** – list of assignee for the assignment
- **items** – items list for the assignment

- **filters** – Filters entity or a dictionary containing filters parameters

Returns

create_qa_task(*due_date*, *assignee_ids*)

Parameters

- **due_date** –
- **assignee_ids** –

delete(*wait=True*)

Delete task from platform :param wait: wait the command to finish :return: True

get_items(*filters=None*)

Parameters filters –

Returns

open_in_web()

Open the task in web platform

Returns

set_status(*status: str*, *operation: str*, *item_ids: List[str]*)

Update item status within task

Parameters

- **status** – str - string the describes the status
- **operation** – str - 'create' or 'delete'
- **item_ids** – List[str]

:return : Boolean

to_json()

Returns platform _json format of object

Returns platform json format of object

update(*system_metadata=False*)

Parameters system_metadata – True, if you want to change metadata system

3.8.1 Assignment

```
class Assignment(name, annotator, status, project_id, metadata, id, url, task_id, dataset_id, annotation_status,
                 item_status, total_items, for_review, issues, client_api, task=None, assignments=None,
                 project=None, dataset=None, datasets=None)
```

Bases: dtlpy.entities.base_entity.BaseEntity

Assignment object

get_items(*dataset=None*, *filters=None*)

Parameters

- **dataset** – dataset entity

- **filters** – Filters entity or a dictionary containing filters parameters

Returns**open_in_web()**

Open the assignment in web platform

Returns**reassign**(*assignee_id*, *wait=True*)

Reassign an assignment :param assignee_id: :param wait: wait the command to finish :return: Assignment object

redistribute(*workload*, *wait=True*)

Redistribute an assignment :param workload: :param wait: wait the command to finish :return: Assignment object

set_status(*status: str*, *operation: str*, *item_id: str*)

Update item status within task

Parameters

- **status** – str - string the describes the status
- **operation** – str - 'create' or 'delete'
- **item_id** – str

:return : Boolean

to_json()

Returns platform _json format of object

Returns platform json format of object

update(*system_metadata=False*)

Parameters **system_metadata** – bool - True, if you want to change metadata system

Returns**class Workload**(*workload: list = NOTHING*)

Bases: `object`

Workload object

add(*assignee_id*)

add a assignee :param assignee_id:

classmethod generate(*assignee_ids*, *loads=None*)

generate the loads for the given assignee :param assignee_ids: :param loads:

class WorkloadUnit(*assignee_id: str*, *load: float = 0*)

Bases: `object`

WorkloadUnit object

3.9 Package

class Package(*id, url, version, created_at, updated_at, name, codebase, modules, slots: list, ui_hooks, creator, is_global, type, service_config, project_id, project, client_api: dtlpy.services.api_client.ApiClient, revisions=None, repositories=NOTHING, artifacts=None, codebases=None, requirements=None*)

Bases: `dtlpy.entities.base_entity.BaseEntity`

Package object

checkout()

Checkout as package

Returns

delete()

Delete Package object

Returns True

deploy(*service_name=None, revision=None, init_input=None, runtime=None, sdk_version=None, agent_versions=None, verify=True, bot=None, pod_type=None, module_name=None, run_execution_as_process=None, execution_timeout=None, drain_time=None, on_reset=None, max_attempts=None, force=False, **kwargs*)

Deploy package

Parameters

- **max_attempts** – Maximum execution retries in-case of a service reset
- **on_reset** –
- **drain_time** –
- **execution_timeout** –
- **run_execution_as_process** –
- **module_name** –
- **pod_type** –
- **bot** –
- **verify** –
- **force** – optional - terminate old replicas immediately
- **agent_versions** –
- **sdk_version** –
- **runtime** –
- **init_input** –
- **revision** –
- **service_name** –

Returns

classmethod from_json(*_json, client_api, project, is_fetched=True*)

Turn platform representation of package into a package entity

Parameters

- **_json** – platform representation of package

- **client_api** – ApiClient entity
- **project** – project entity
- **is_fetched** – is Entity fetched from Platform

Returns Package entity

open_in_web()

Open the package in web platform

Returns

pull(*version=None, local_path=None*)

Push local package

Parameters

- **version** –
- **local_path** –

Returns

push(*codebase: Optional[Union[dtlpy.entities.codebase.GitCodebase, dtlpy.entities.codebase.ItemCodebase]] = None, src_path: Optional[str] = None, package_name: Optional[str] = None, modules: Optional[list] = None, checkout: bool = False, revision_increment: Optional[str] = None, service_update: bool = False, service_config: Optional[dict] = None*)

Push local package

Parameters

- **codebase** – PackageCode object - defines how to store the package code
- **checkout** – save package to local checkout
- **src_path** – location of package codebase folder to zip
- **package_name** – name of package
- **modules** – list of PackageModule
- **revision_increment** – optional - str - version bumping method - major/minor/patch - default = None
- **service_update** – optional - bool - update the service
- **service_config** – optional - json of service - a service that have config from the main service if wanted

Returns

to_json()

Turn Package entity into a platform representation of Package

Returns platform json of package

update()

Update Package changes to platform

Returns Package entity

```
class RequirementOperator(value)
    Bases: str, enum.Enum
    An enumeration.
```

3.9.1 Package Function

```
class PackageFunction(outputs=NOTHING, name=NOTHING, description="", inputs=NOTHING,
                      display_name=None, display_icon=None)
    Bases: dtlpy.entities.base_entity.BaseEntity
    Webhook object
```

```
class PackageInputType(value)
    Bases: str, enum.Enum
    An enumeration.
```

3.9.2 Package Module

```
class PackageModule(name=NOTHING, init_inputs=NOTHING, entry_point='main.py',
                    class_name='ServiceRunner', functions=NOTHING)
    Bases: dtlpy.entities.base_entity.BaseEntity
    PackageModule object
    add_function(function)
```

Parameters function –

3.9.3 Slot

```
class PackageSlot(module_name='default_module', function_name='run', display_name=None,
                  display_scopes: Optional[list] = None, display_icon=None, post_action:
                  dtlpy.entities.package_slot.SlotPostAction = NOTHING, default_inputs: Optional[list] =
                  None, input_options: Optional[list] = None)
    Bases: dtlpy.entities.base_entity.BaseEntity
    Webhook object
```

```
class SlotDisplayScopeResource(value)
    Bases: str, enum.Enum
    An enumeration.
```

```
class SlotPostActionType(value)
    Bases: str, enum.Enum
    An enumeration.
```

```
class UiBindingPanel(value)
    Bases: str, enum.Enum
    An enumeration.
```

3.9.4 Codebase

3.10 Service

class InstanceCatalog(*value*)

Bases: `str`, `enum.Enum`

An enumeration.

class KubernetesAutoscalerType(*value*)

Bases: `str`, `enum.Enum`

An enumeration.

class OnResetAction(*value*)

Bases: `str`, `enum.Enum`

An enumeration.

class RuntimeType(*value*)

Bases: `str`, `enum.Enum`

An enumeration.

class Service(*created_at*, *updated_at*, *creator*, *version*, *package_id*, *package_revision*, *bot*, *use_user_jwt*, *init_input*, *versions*, *module_name*, *name*, *url*, *id*, *active*, *driver_id*, *secrets*, *runtime*, *queue_length_limit*, *run_execution_as_process*: *bool*, *execution_timeout*, *drain_time*, *on_reset*: `dtlpy.entities.service.OnResetAction`, *project_id*, *is_global*, *max_attempts*, *package*, *client_api*: `dtlpy.services.api_client.ApiClient`, *revisions*=None, *project*=None, *repositories*=NOTHING)

Bases: `dtlpy.entities.base_entity.BaseEntity`

Service object

activate_slots(*project_id*: *Optional[str]* = None, *task_id*: *Optional[str]* = None, *dataset_id*: *Optional[str]* = None, *org_id*: *Optional[str]* = None, *user_email*: *Optional[str]* = None, *slots*=None, *role*=None, *prevent_override*: *bool* = True, *visible*: *bool* = True, *icon*: *str* = 'fas fa-magic', ***kwargs*) → *object*

@rtype: List[UserSetting] @param *project_id*: str @param *task_id*: str @param *dataset_id*: str @param *org_id*: str @param *user_email*: str @param *slots*: List[PackageSlot] @param *role*: Role @param *prevent_override*: bool @param *visible*: bool @param *icon*: str @param *kwargs*: system @return: List of user setting for activated slots

checkout()

Checkout

Returns

delete()

Delete Service object

Returns True

execute(*execution_input*=None, *function_name*=None, *resource*=None, *item_id*=None, *dataset_id*=None, *annotation_id*=None, *project_id*=None, *sync*=False, *stream_logs*=True, *return_output*=True)

Execute a function on an existing service

Parameters

- **execution_input** – input dictionary or list of FunctionIO entities
- **function_name** – str - function name to run

:param resource:dl.PackageInputType - input type. :param item_id:str - optional - input to function :param dataset_id:str - optional - input to function :param annotation_id:str - optional - input to function :param project_id:str - resource's project :param sync: bool - wait for function to end :param stream_logs: bool - prints logs of the new execution. only works with sync=True :param return_output: bool - if True and sync is True - will return the output directly :return:

classmethod from_json(*_json: dict*, *client_api: dtlpy.services.api_client.ApiClient*, *package=None*, *project=None*, *is_fetched=True*)

Parameters

- **_json** – platform json
- **client_api** – ApiClient entity
- **package** –
- **project** – project entity
- **is_fetched** – is Entity fetched from Platform

Returns

log(*size=None*, *checkpoint=None*, *start=None*, *end=None*, *follow=False*, *text=None*, *execution_id=None*, *function_name=None*, *replica_id=None*, *system=False*, *view=True*, *until_completed=True*)

Get service logs :param size: :param checkpoint: :param start: iso format time :param end: iso format time :param follow: filters :param text: :param execution_id: :param function_name: :param replica_id: :param system: :param view: :param until_completed: :return: Service entity

open_in_web()

Open the service in web platform

Returns

pause()

Returns

resume()

Returns

status()

Get Service status

Returns

 True

update(*force=False*)

Update Service changes to platform :param force: :return: Service entity

3.10.1 Bot

```
class Bot(created_at, updated_at, name, last_name, username, avatar, email, role, type, org, id, project,  
         client_api=None, users=None, bots=None, password=None)
```

Bases: `dtlpy.entities.user.User`

Bot entity

```
delete()
```

Delete the bot

Returns True

```
classmethod from_json(_json, project, client_api, bots=None)
```

Build a Bot entity object from a json

Parameters

- **_json** – _json response from host
- **project** – project entity
- **client_api** – ApiClient entity
- **bots** – Bots repository

Returns User object

```
to_json()
```

Returns platform _json format of object

Returns platform json format of object

3.11 Trigger

```
class BaseTrigger(id, url, created_at, updated_at, creator, name, active, type, scope, is_global, input,  
                 function_name, service_id, webhook_id, pipeline_id, special, project_id, spec, service,  
                 project, client_api: dtlpy.services.api_client.ApiClient, op_type='service',  
                 repositories=NOTHING)
```

Bases: `dtlpy.entities.base_entity.BaseEntity`

Trigger Entity

```
delete()
```

Delete Trigger object

Returns True

```
classmethod from_json(_json, client_api, project, service=None)
```

Parameters

- **_json** – platform json
- **client_api** – ApiClient entity
- **project** – project entity
- **service** – service entity

Returns

to_json()

Returns platform _json format of object

Returns platform json format of object

update()

Returns Trigger entity

class CronTrigger(*id, url, created_at, updated_at, creator, name, active, type, scope, is_global, input, function_name, service_id, webhook_id, pipeline_id, special, project_id, spec, service, project, client_api: dtlpy.services.api_client.ApiClient, op_type='service', repositories=NOTHING, start_at=None, end_at=None, cron=None*)

Bases: [dtlpy.entities.trigger.BaseTrigger](#)

classmethod from_json(*_json, client_api, project, service=None*)

Parameters

- **_json** – platform json
- **client_api** – ApiClient entity
- **project** – project entity
- **service** – service entity

Returns

to_json()

Returns platform _json format of object

Returns platform json format of object

class Trigger(*id, url, created_at, updated_at, creator, name, active, type, scope, is_global, input, function_name, service_id, webhook_id, pipeline_id, special, project_id, spec, service, project, client_api: dtlpy.services.api_client.ApiClient, op_type='service', repositories=NOTHING, filters=None, execution_mode=TriggerExecutionMode.ONCE, actions=TriggerAction.CREATED, resource=TriggerResource.ITEM*)

Bases: [dtlpy.entities.trigger.BaseTrigger](#)

Trigger Entity

classmethod from_json(*_json, client_api, project, service=None*)

Parameters

- **_json** – platform json
- **client_api** – ApiClient entity
- **project** – project entity
- **service** – service entity

Returns

to_json()

Returns platform _json format of object

Returns platform json format of object


```
class TriggerAction(value)
```

Bases: `str`, `enum.Enum`

An enumeration.

```
class TriggerExecutionMode(value)
```

Bases: `str`, `enum.Enum`

An enumeration.

```
class TriggerResource(value)
```

Bases: `str`, `enum.Enum`

An enumeration.

```
class TriggerType(value)
```

Bases: `str`, `enum.Enum`

An enumeration.

3.12 Execution

```
class Execution(id, url, creator, created_at, updated_at, input, output, feedback_queue, status, status_log,
                 sync_reply_to, latest_status, function_name, duration, attempts, max_attempts, to_terminate:
                 bool, trigger_id, service_id, project_id, service_version, package_id, package_name, client_api:
                 dtlpy.services.api_client.ApiClient, service, project=None, repositories=NOTHING, pipeline:
                 Optional[dict] = None)
```

Bases: `dtlpy.entities.base_entity.BaseEntity`

Service execution entity

```
classmethod from_json(_json, client_api, project=None, service=None, is_fetched=True)
```

Parameters

- **_json** – platform json
- **client_api** – ApiClient entity
- **project** – project entity
- **service** –
- **is_fetched** – is Entity fetched from Platform

```
increment()
```

Increment attempts

Returns

```
logs(follow=False)
```

Print logs for execution

Parameters **follow** – keep stream future logs

```
progress_update(status: Optional[dtlpy.entities.execution.ExecutionStatus] = None, percent_complete:
                 Optional[int] = None, message: Optional[str] = None, output: Optional[str] = None,
                 service_version: Optional[str] = None)
```

Update Execution Progress

Parameters

- **status** – ExecutionStatus
- **percent_complete** –
- **message** –
- **output** –
- **service_version** –

Returns**rerun()**

Re-run

Returns**terminate()**

Terminate execution

Returns**to_json()**

Returns platform _json format of object

Returns platform json format of object**update()**

Update execution changes to platform :return: execution entity

wait()

Wait for execution

Returns**class ExecutionStatus(value)**Bases: `str`, `enum.Enum`

An enumeration.

3.13 Pipeline

class Pipeline(*id, name, creator, org_id, connections, created_at, updated_at, start_nodes, project_id, composition_id, url, preview, description, revisions, info, project, client_api: dtlpy.services.api_client.ApiClient, repositories=NOTHING*)Bases: `dtlpy.entities.base_entity.BaseEntity`

Package object

delete()

Delete pipeline object

Returns True**execute**(*execution_input=None*)

execute a pipeline and return the execute :param execution_input: list of the dl.FunctionIO or dict of pipeline input - example { 'item': 'item_id' } :return: entities.PipelineExecution object

classmethod from_json(*_json, client_api, project, is_fetched=True*)

Turn platform representation of pipeline into a pipeline entity

Parameters

- **_json** – platform representation of package

- **client_api** – ApiClient entity
- **project** – project entity
- **is_fetched** – is Entity fetched from Platform

Returns Package entity

install()

install pipeline

Returns Composition entity

open_in_web()

Open the pipeline in web platform

Returns

pause()

pause pipeline

Returns Composition entity

set_start_node(*node: dtlpy.entities.node.PipelineNode*)

Set the start node of the pipeline

Parameters *node* (*PipelineNode*) – node to be the start node

to_json()

Turn Package entity into a platform representation of Package

Returns platform json of package

update()

Update pipeline changes to platform

Returns pipeline entity

3.13.1 Pipeline Execution

class PipelineExecution(*id, nodes, executions, created_at, updated_at, pipeline_id, pipeline_execution_id, pipeline, client_api: dtlpy.services.api_client.ApiClient, repositories=NOTHING*)

Bases: `dtlpy.entities.base_entity.BaseEntity`

Package object

classmethod from_json(*_json, client_api, pipeline, is_fetched=True*)

Turn platform representation of pipeline_execution into a pipeline_execution entity

Parameters

- **_json** – platform representation of package
- **client_api** – ApiClient entity
- **pipeline** – Pipeline entity
- **is_fetched** – is Entity fetched from Platform

Returns Package entity

to_json()

Turn Package entity into a platform representation of Package

Returns platform json of package

3.14 Other

3.14.1 Pages

```
class PagedEntities(client_api: dtlpy.services.api_client.ApiClient, page_offset, page_size, filters,  
                   items_repository, has_next_page=False, total_pages_count=0, items_count=0,  
                   service_id=None, project_id=None, order_by_type=None, order_by_direction=None,  
                   execution_status=None, execution_resource_type=None, execution_resource_id=None,  
                   execution_function_name=None, items=[])
```

Bases: `object`

Pages object

```
get_page(page_offset=None, page_size=None)
```

Parameters

- **page_offset** –
- **page_size** –

```
go_to_page(page=0)
```

Brings specified page of items from host

Parameters **page** – page number

Returns

```
next_page()
```

Brings the next page of items from host

Returns

```
prev_page()
```

Brings the previous page of items from host

Returns

```
process_result(result)
```

Parameters **result** – json object

```
return_page(page_offset=None, page_size=None)
```

Parameters

- **page_offset** –
- **page_size** –

3.14.2 Base Entity

3.14.3 Command

class Command(*id, url, status, created_at, updated_at, type, progress, spec, error, client_api:*
dtlpy.services.api_client.ApiClient, repositories=NOTHING)

Bases: `dtlpy.entities.base_entity.BaseEntity`

Com entity

abort()

abort command

Returns

classmethod from_json(*_json, client_api, is_fetched=True)*

Build a Command entity object from a json

Parameters

- **_json** – _json response from host
- **client_api** – ApiClient entity
- **is_fetched** – is Entity fetched from Platform

Returns Command object

in_progress()

Check if command is still in one of the in progress statuses

Returns Boolean

to_json()

Returns platform _json format of object

Returns platform json format of object

wait(*timeout=0, step=5*)

Wait for Command to finish

Parameters

- **timeout** – int, seconds to wait until TimeoutError is raised. if 0 - wait until done
- **step** – int, seconds between polling

Returns Command object

class CommandsStatus(*value*)

Bases: `str, enum.Enum`

An enumeration.

3.14.4 Directory Tree

class `DirectoryTree(_json)`

Bases: `object`

Dataset DirectoryTree

class `SingleDirectory(value, directory_tree, children=None)`

Bases: `object`

DirectoryTree single directory

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