
Python SDK reference

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Labelbox

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CLIENT

```
class labelbox.client.Client(api_key=None, endpoint='https://api.labelbox.com/graphql',
                             enable_experimental=False, app_url='https://app.labelbox.com')
```

Bases: object

A Labelbox client.

Contains info necessary for connecting to a Labelbox server (URL, authentication key). Provides functions for querying and creating top-level data objects (Projects, Datasets).

```
__init__(api_key=None, endpoint='https://api.labelbox.com/graphql', enable_experimental=False,
          app_url='https://app.labelbox.com')
```

Creates and initializes a Labelbox Client.

Logging is defaulted to level WARNING. To receive more verbose output to console, update *logging.level* to the appropriate level.

```
>>> logging.basicConfig(level = logging.INFO)
>>> client = Client("<APIKEY>")
```

Parameters

- **api_key** (*str*) – API key. If None, the key is obtained from the “LABELBOX_API_KEY” environment variable.
- **endpoint** (*str*) – URL of the Labelbox server to connect to.
- **enable_experimental** (*bool*) – Indicates whether or not to use experimental features
- **app_url** (*str*) – host url for all links to the web app

Raises *labelbox.exceptions.AuthenticationError* – If no *api_key* is provided as an argument or via the environment variable.

```
assign_global_keys_to_data_rows(global_key_to_data_row_inputs: List[Dict[str, str]],
                                timeout_seconds=60) → Dict[str, Union[str, List[Any]]]
```

Assigns global keys to data rows.

Parameters *global_key*. (A list of dicts containing *data_row_id* and) –

Returns

Dictionary containing ‘status’, ‘results’ and ‘errors’.

‘Status’ contains the outcome of this job. It can be one of ‘Success’, ‘Partial Success’, or ‘Failure’.

'Results' contains the successful global_key assignments, including global_keys that have been sanitized to Labelbox standards.

'Errors' contains global_key assignments that failed, along with the reasons for failure.

Examples

```
>>> global_key_data_row_inputs = [
    {"data_row_id": "cl7asgri20yvo075b4vtfedjb", "global_key": "key1"},
    {"data_row_id": "cl7asgri10yvg075b4pz176ht", "global_key": "key2"},
]
>>> job_result = client.assign_global_keys_to_data_rows(global_key_data_row_
↳ inputs)
>>> print(job_result['status'])
Partial Success
>>> print(job_result['results'])
[{'data_row_id': 'cl7tv9wry00hlka6gai588ozv', 'global_key': 'gk', 'sanitized': '
↳ False'}]
>>> print(job_result['errors'])
[{'data_row_id': 'cl7tpjzw30031ka6g4evqdfoy', 'global_key': 'gk', 'error':
↳ 'Invalid global key'}]
```

create_dataset(*iam_integration*='DEFAULT', ***kwargs*) → *labelbox.schema.dataset.Dataset*

Creates a Dataset object on the server.

Attribute values are passed as keyword arguments.

```
>>> project = client.get_project("<project_uid>")
>>> dataset = client.create_dataset(name="<dataset_name>", projects=project)
```

Parameters

- **iam_integration** (*IAMIntegration*) – Uses the default integration. Optionally specify another integration or set as None to not use delegated access
- ****kwargs** – Keyword arguments with Dataset attribute values.

Returns A new Dataset object.

Raises *InvalidAttributeError* – If the Dataset type does not contain any of the attribute names given in kwargs.

create_feature_schema(*normalized*)

Creates a feature schema from normalized data.

```
>>> normalized = {'tool': 'polygon', 'name': 'cat', 'color': 'black'}
>>> feature_schema = client.create_feature_schema(normalized)
```

Or use the Tool or Classification objects. It is especially useful for complex tools.

```
>>> normalized = Tool(tool=Tool.Type.BBOX, name="cat", color = 'black').
↳ asdict()
>>> feature_schema = client.create_feature_schema(normalized)
```

Subclasses are also supported

```

>>> normalized = Tool(
    tool=Tool.Type.SEGMENTATION,
    name="cat",
    classifications=[
        Classification(
            class_type=Classification.Type.TEXT,
            instructions="name"
        )
    ]
)
>>> feature_schema = client.create_feature_schema(normalized)

```

More details can be found here: <https://github.com/Labelbox/labelbox-python/blob/develop/examples/basics/ontologies.ipynb>

Parameters `normalized` (*dict*) – A normalized tool or classification payload. See above for details

Returns The created FeatureSchema.

create_model(*name*, *ontology_id*) → *labelbox.schema.model.Model*

Creates a Model object on the server.

```

>>> model = client.create_model(<model_name>, <ontology_id>)

```

Parameters

- **name** (*string*) – Name of the model
- **ontology_id** (*string*) – ID of the related ontology

Returns A new Model object.

Raises *InvalidAttributeError* – If the Model type does not contain any of the attribute names given in kwargs.

create_ontology(*name*, *normalized*) → *labelbox.schema.ontology.Ontology*

Creates an ontology from normalized data

```

>>> normalized = {"tools" : [{ 'tool': 'polygon', 'name': 'cat', 'color':
    ↪ 'black'}], "classifications" : []}
>>> ontology = client.create_ontology("ontology-name", normalized)

```

Or use the ontology builder. It is especially useful for complex ontologies

```

>>> normalized = OntologyBuilder(tools=[Tool(tool=Tool.Type.BBOX, name="cat
    ↪", color = 'black')]).asdict()
>>> ontology = client.create_ontology("ontology-name", normalized)

```

To reuse existing feature schemas, use *create_ontology_from_feature_schemas()* More details can be found here:

<https://github.com/Labelbox/labelbox-python/blob/develop/examples/basics/ontologies.ipynb>

Parameters

- **name** (*str*) – Name of the ontology
- **normalized** (*dict*) – A normalized ontology payload. See above for details.

Returns The created Ontology

create_ontology_from_feature_schemas(*name, feature_schema_ids*) → *labelbox.schema.ontology.Ontology*

Creates an ontology from a list of feature schema ids

Parameters

- **name** (*str*) – Name of the ontology
- **feature_schema_ids** (*List[str]*) – List of feature schema ids corresponding to top level tools and classifications to include in the ontology

Returns The created Ontology

create_project(***kwargs*) → *labelbox.schema.project.Project*

Creates a Project object on the server.

Attribute values are passed as keyword arguments.

```
>>> project = client.create_project(  
    name="<project_name>",  
    description="<project_description>",  
    media_type=MediaType.Image,  
    queue_mode=QueueMode.Batch  
)
```

Parameters

- **name** (*str*) – A name for the project
- **description** (*str*) – A short summary for the project
- **media_type** (*MediaType*) – The type of assets that this project will accept
- **queue_mode** (*Optional[QueueMode]*) – The queue mode to use
- **auto_audit_percentage** (*Optional[float]*) – The percentage of data rows that will require more than 1 label
- **auto_audit_number_of_labels** (*Optional[float]*) – Number of labels required for data rows selected for multiple labeling (auto_audit_percentage)

Returns A new Project object.

Raises *InvalidAttributeError* – If the Project type does not contain any of the attribute names given in kwargs.

execute(*query=None, params=None, data=None, files=None, timeout=30.0, experimental=False*)

Sends a request to the server for the execution of the given query.

Checks the response for errors and wraps errors in appropriate *labelbox.exceptions.LabelboxError* subtypes.

Parameters

- **query** (*str*) – The query to execute.
- **params** (*dict*) – Query parameters referenced within the query.

- **data** (*str*) – json string containing the query to execute
- **files** (*dict*) – file arguments for request
- **timeout** (*float*) – Max allowed time for query execution, in seconds.

Returns dict, parsed JSON response.

Raises

- ***labelbox.exceptions.AuthenticationError*** – If authentication failed.
- ***labelbox.exceptions.InvalidQueryError*** – If *query* is not syntactically or semantically valid (checked server-side).
- ***labelbox.exceptions.ApiLimitError*** – If the server API limit was exceeded. See “How to import data” in the online documentation to see API limits.
- ***labelbox.exceptions.TimeoutError*** – If response was not received in *timeout* seconds.
- ***labelbox.exceptions.NetworkError*** – If an unknown error occurred most likely due to connection issues.
- ***labelbox.exceptions.LabelboxError*** – If an unknown error of any kind occurred.
- **ValueError** – If query and data are both None.

get_catalog_slice(*slice_id*) → *labelbox.schema.slice.CatalogSlice*

Fetches a Catalog Slice by ID.

Parameters **slice_id** (*str*) – The ID of the Slice

Returns CatalogSlice

get_data_row(*data_row_id*)

Returns returns a single data row given the data row id

Return type *DataRow*

get_data_row_ids_for_external_ids(*external_ids: List[str]*) → Dict[str, List[str]]

Returns a list of data row ids for a list of external ids. There is a max of 1500 items returned at a time.

Parameters **external_ids** – List of external ids to fetch data row ids for

Returns A dict of external ids as keys and values as a list of data row ids that correspond to that external id.

get_data_row_ids_for_global_keys(*global_keys: List[str], timeout_seconds=60*) → Dict[str, Union[str, List[Any]]]

Gets data row ids for a list of global keys.

Parameters **keys** (*A list of global*) –

Returns

Dictionary containing ‘status’, ‘results’ and ‘errors’.

‘Status’ contains the outcome of this job. It can be one of ‘Success’, ‘Partial Success’, or ‘Failure’.

‘Results’ contains a list of data row ids successfully fetched. It may not necessarily contain all data rows requested.

‘Errors’ contains a list of global_keys that could not be fetched, along with the failure reason

Examples

```
>>> job_result = client.get_data_row_ids_for_global_keys(["key1", "key2"])
>>> print(job_result['status'])
Partial Success
>>> print(job_result['results'])
['c17tv9wry00hlka6gai588ozv', 'c17tv9wxg00hpka6gf8sh81bj']
>>> print(job_result['errors'])
[{'global_key': 'asdf', 'error': 'Data Row not found'}]
```

get_data_row_metadata_ontology() → *labelbox.schema.data_row_metadata.DataRowMetadataOntology*

Returns The ontology for Data Row Metadata for an organization

Return type *DataRowMetadataOntology*

get_dataset(dataset_id) → *labelbox.schema.dataset.Dataset*

Gets a single Dataset with the given ID.

```
>>> dataset = client.get_dataset("<dataset_id>")
```

Parameters **dataset_id** (*str*) – Unique ID of the Dataset.

Returns The sought Dataset.

Raises *labelbox.exceptions.ResourceNotFoundError* – If there is no Dataset with the given ID.

get_datasets(where=None) → List[*labelbox.schema.dataset.Dataset*]

Fetches one or more datasets.

```
>>> datasets = client.get_datasets(where=(Dataset.name == "<dataset_name>") &
↳ (Dataset.description == "<dataset_description>"))
```

Parameters **where** (*Comparison, LogicalOperation or None*) – The *where* clause for filtering.

Returns An iterable of Datasets (typically a *PaginatedCollection*).

get_feature_schema(feature_schema_id)

Fetches a feature schema. Only supports top level feature schemas.

Parameters **feature_schema_id** (*str*) – The id of the feature schema to query for

Returns *FeatureSchema*

get_feature_schemas(name_contains) → *labelbox.pagination.PaginatedCollection*

Fetches top level feature schemas with names that match the *name_contains* string

Parameters **name_contains** (*str*) – the string to search top level feature schema names by

Returns *PaginatedCollection* of *FeatureSchemas* with names that match *name_contains*

get_labeling_frontends(where=None) → List[*labelbox.schema.labeling_frontend.LabelingFrontend*]

Fetches all the labeling frontends.

```
>>> frontend = client.get_labeling_frontends(where=LabelingFrontend.name ==
↳ "Editor")
```

Parameters *where* (*Comparison*, *LogicalOperation* or *None*) – The *where* clause for filtering.

Returns An iterable of LabelingFrontends (typically a PaginatedCollection).

get_model(*model_id*) → *labelbox.schema.model.Model*

Gets a single Model with the given ID.

```
>>> model = client.get_model("<model_id>")
```

Parameters *model_id* (*str*) – Unique ID of the Model.

Returns The sought Model.

Raises *labelbox.exceptions.ResourceNotFoundError* – If there is no Model with the given ID.

get_model_run(*model_run_id*: *str*) → *labelbox.schema.model_run.ModelRun*

Gets a single ModelRun with the given ID.

```
>>> model_run = client.get_model_run("<model_run_id>")
```

Parameters *model_run_id* (*str*) – Unique ID of the ModelRun.

Returns A ModelRun object.

get_models(*where=None*) → List[*labelbox.schema.model.Model*]

Fetches all the models the user has access to.

```
>>> models = client.get_models(where=(Model.name == "<model_name>"))
```

Parameters *where* (*Comparison*, *LogicalOperation* or *None*) – The *where* clause for filtering.

Returns An iterable of Models (typically a PaginatedCollection).

get_ontologies(*name_contains*) → *labelbox.pagination.PaginatedCollection*

Fetches all ontologies with names that match the *name_contains* string.

Parameters *name_contains* (*str*) – the string to search ontology names by

Returns PaginatedCollection of Ontologies with names that match *name_contains*

get_ontology(*ontology_id*) → *labelbox.schema.ontology.Ontology*

Fetches an Ontology by id.

Parameters *ontology_id* (*str*) – The id of the ontology to query for

Returns Ontology

get_organization() → *labelbox.schema.organization.Organization*

Gets the Organization DB object of the current user.

```
>>> organization = client.get_organization()
```

get_project(*project_id*)

Gets a single Project with the given ID.

```
>>> project = client.get_project("<project_id>")
```

Parameters **project_id** (*str*) – Unique ID of the Project.

Returns The sought Project.

Raises *labelbox.exceptions.ResourceNotFoundError* – If there is no Project with the given ID.

get_projects(*where=None*) → List[*labelbox.schema.project.Project*]

Fetches all the projects the user has access to.

```
>>> projects = client.get_projects(where=(Project.name == "<project_name>") &
↳ (Project.description == "<project_description>"))
```

Parameters **where** (*Comparison, LogicalOperation or None*) – The *where* clause for filtering.

Returns An iterable of Projects (typically a PaginatedCollection).

get_roles() → List[*labelbox.schema.role.Role*]

Returns Provides information on available roles within an organization. Roles are used for user management.

Return type Roles

get_user() → *labelbox.schema.user.User*

Gets the current User database object.

```
>>> user = client.get_user()
```

ASSETATTACHMENT

class `labelbox.schema.asset_attachment.AssetAttachment`(*client, field_values*)

Bases: `labelbox.orm.db_object.DbObject`

Asset attachment provides extra context about an asset while labeling.

attachment_type

IMAGE, VIDEO, IMAGE_OVERLAY, HTML, RAW_TEXT, or TEXT_URL. TEXT attachment type is deprecated.

Type `str`

attachment_value

URL to an external file or a string of text

Type `str`

class `AttachmentType`(*value*)

Bases: `enum.Enum`

An enumeration.

delete() → `None`

Deletes an attachment on the data row.

BENCHMARK

class `labelbox.schema.benchmark.Benchmark`(*client, field_values*)

Bases: `labelbox.orm.db_object.DbObject`

Represents a benchmark label.

The Benchmarks tool works by interspersing data to be labeled, for which there is a benchmark label, to each person labeling. These labeled data are compared against their respective benchmark and an accuracy score between 0 and 100 percent is calculated.

created_at

Type `datetime`

last_activity

Type `datetime`

average_agreement

Type `float`

completed_count

Type `int`

created_by

ToOne relationship to User

Type `Relationship`

reference_label

ToOne relationship to Label

Type `Relationship`

BULKIMPORTREQUEST

class `labelbox.schema.bulk_import_request.BulkImportRequest`(*client, field_values*)

Bases: `labelbox.orm.db_object.DbObject`

Represents the import job when importing annotations.

name

Type `str`

state

FAILED, RUNNING, or FINISHED (Refers to the whole import job)

Type `Enum`

input_file_url

URL to your web-hosted NDJSON file

Type `str`

error_file_url

NDJSON that contains error messages for failed annotations

Type `str`

status_file_url

NDJSON that contains status for each annotation

Type `str`

created_at

UTC timestamp for date BulkImportRequest was created

Type `datetime`

project

ToOne relationship to Project

Type `Relationship`

created_by

ToOne relationship to User

Type `Relationship`

delete() \rightarrow `None`

Deletes the import job and also any annotations created by this import.

Returns `None`

property errors: `List[Dict[str, Any]]`

Errors for each individual annotation uploaded. This is a subset of statuses

Returns List of dicts containing error messages. Empty list means there were no errors See *BulkImportRequest.statuses* for more details.

- This information will expire after 24 hours.

property inputs: `List[Dict[str, Any]]`

Inputs for each individual annotation uploaded. This should match the ndjson annotations that you have uploaded.

Returns Uploaded ndjson.

- This information will expire after 24 hours.

refresh() → None

Synchronizes values of all fields with the database.

property statuses: `List[Dict[str, Any]]`

Status for each individual annotation uploaded.

Returns A status for each annotation if the upload is done running. See below table for more details

Field	Description
uuid	Specifies the annotation for the status row.
dataRow	JSON object containing the Labelbox data row ID for the annotation.
status	Indicates SUCCESS or FAILURE.
errors	An array of error messages included when status is FAILURE. Each error has a name, message and optional (key might not exist) additional_info.

- This information will expire after 24 hours.

wait_until_done(*sleep_time_seconds: int = 5*) → None

Blocks import job until certain conditions are met.

Blocks until the BulkImportRequest.state changes either to *BulkImportRequestState.FINISHED* or *BulkImportRequestState.FAILED*, periodically refreshing object's state.

Parameters *sleep_time_seconds* (*str*) – a time to block between subsequent API calls

`labelbox.schema.bulk_import_request.get_mal_schemas(ontology)`

Converts a project ontology to a dict for easier lookup during ndjson validation

Parameters *ontology* (*Ontology*) –

Returns Useful for looking up a tool from a given feature schema id or name

Return type Dict, Dict

`labelbox.schema.bulk_import_request.parse_classification(tool)`

Parses a classification from an ontology. Only radio, checklist, and text are supported for mal

Parameters *tool* (*dict*) –

Returns dict

DATAROW

```
class labelbox.schema.data_row.DataRow(*args, **kwargs)
```

Bases: labelbox.orm.db_object.DbObject, labelbox.orm.db_object.Updateable, labelbox.orm.db_object.BulkDeletable

Internal Labelbox representation of a single piece of data (e.g. image, video, text).

external_id

User-generated file name or identifier

Type str

global_key

User-generated globally unique identifier

Type str

row_data

Paths to local files are uploaded to Labelbox's server. Otherwise, it's treated as an external URL.

Type str

updated_at

Type datetime

created_at

Type datetime

media_attributes

generated media attributes for the data row

Type dict

metadata_fields

metadata associated with the data row

Type list

metadata

metadata associated with the data row as list of DataRowMetadataField. When importing Data Rows with metadata, use *metadata_fields* instead

Type list

dataset

ToOne relationship to Dataset

Type Relationship

created_by

ToOne relationship to User

Type Relationship

organization

ToOne relationship to Organization

Type Relationship

labels

ToMany relationship to Label

Type Relationship

attachments

Type Relationship

static bulk_delete(*data_rows*) → None

Deletes all the given DataRows.

Parameters **data_rows** (*list of DataRow*) – The DataRows to delete.

create_attachment(*attachment_type*, *attachment_value*) → *AssetAttachment*

Adds an *AssetAttachment* to a *DataRow*. Labelers can view these attachments while labeling.

```
>>> datarow.create_attachment("TEXT", "This is a text message")
```

Parameters

- **attachment_type** (*str*) – Asset attachment type, must be one of: VIDEO, IMAGE, TEXT, IMAGE_OVERLAY (*AssetAttachment.AttachmentType*)
- **attachment_value** (*str*) – Asset attachment value.

Returns *AssetAttachment* DB object.

Raises **ValueError** – *asset_type* must be one of the supported types.

DATASET

```
class labelbox.schema.dataset.Dataset(client, field_values)
```

```
    Bases: labelbox.orm.db_object.DbObject, labelbox.orm.db_object.Updateable, labelbox.orm.db_object.Deletable
```

```
    A Dataset is a collection of DataRows.
```

```
    name
```

```
        Type str
```

```
    description
```

```
        Type str
```

```
    updated_at
```

```
        Type datetime
```

```
    created_at
```

```
        Type datetime
```

```
    row_count
```

```
        The number of rows in the dataset. Fetch the dataset again to update since this is cached.
```

```
        Type int
```

```
    projects
```

```
        ToMany relationship to Project
```

```
        Type Relationship
```

```
    data_rows
```

```
        ToMany relationship to DataRow
```

```
        Type Relationship
```

```
    created_by
```

```
        ToOne relationship to User
```

```
        Type Relationship
```

```
    organization
```

```
        ToOne relationship to Organization
```

```
        Type Relationship
```

create_data_row(*items=None, **kwargs*) → *DataRow*

Creates a single *DataRow* belonging to this dataset.

```
>>> dataset.create_data_row(row_data="http://my_site.com/photos/img_01.jpg")
```

Parameters

- **items** – Dictionary containing new *DataRow* data. At a minimum, must contain *row_data* or *DataRow.row_data*.
- ****kwargs** – Key-value arguments containing new *DataRow* data. At a minimum, must contain *row_data*.

Raises

- ***InvalidQueryError*** – If both dictionary and *kwargs* are provided as inputs
- ***InvalidQueryError*** – If *DataRow.row_data* field value is not provided in *kwargs*.
- ***InvalidAttributeError*** – in case the DB object type does not contain any of the field names given in *kwargs*.

create_data_rows(*items*) → Union[*Task*, List[Any]]

Asynchronously bulk upload data rows

Use this instead of *Dataset.create_data_rows_sync* uploads for batches that contain more than 1000 data rows.

Parameters **items** (*iterable of (dict or str)*) – See the docstring for *Dataset._create_descriptor_file* for more information

Returns Task representing the data import on the server side. The Task can be used for inspecting task progress and waiting until it's done.

Raises

- ***InvalidQueryError*** – If the *items* parameter does not conform to the specification above or if the server did not accept the *DataRow* creation request (unknown reason).
- ***ResourceNotFoundError*** – If unable to retrieve the Task for the import process. This could imply that the import failed.
- ***InvalidAttributeError*** – If there are fields in *items* not valid for a *DataRow*.
- ***ValueError*** – When the upload parameters are invalid

create_data_rows_sync(*items*) → None

Synchronously bulk upload data rows.

Use this instead of *Dataset.create_data_rows* for smaller batches of data rows that need to be uploaded quickly. Cannot use this for uploads containing more than 1000 data rows. Each data row is also limited to 5 attachments.

Parameters **items** (*iterable of (dict or str)*) – See the docstring for *Dataset._create_descriptor_file* for more information.

Returns None. If the function doesn't raise an exception then the import was successful.

Raises

- ***InvalidQueryError*** – If the *items* parameter does not conform to the specification in *Dataset._create_descriptor_file* or if the server did not accept the *DataRow* creation request (unknown reason).

- **`InvalidAttributeError`** – If there are fields in *items* not valid for a *DataRow*.
- **`ValueError`** – When the upload parameters are invalid

`data_row_for_external_id(external_id)` → *DataRow*

Convenience method for getting a single *DataRow* belonging to this *Dataset* that has the given *external_id*.

Parameters **`external_id`** (*str*) – External ID of the sought *DataRow*.

Returns A single *DataRow* with the given ID.

Raises **`labelbox.exceptions.ResourceNotFoundError`** – If there is no *DataRow* in this *DataSet* with the given external ID, or if there are multiple *DataRows* for it.

`data_rows_for_external_id(external_id, limit=10)` → List[*DataRow*]

Convenience method for getting a multiple *DataRow* belonging to this *Dataset* that has the given *external_id*.

Parameters

- **`external_id`** (*str*) – External ID of the sought *DataRow*.
- **`limit`** (*int*) – The maximum number of data rows to return for the given *external_id*

Returns A list of *DataRow* with the given ID.

Raises **`labelbox.exceptions.ResourceNotFoundError`** – If there is no *DataRow* in this *DataSet* with the given external ID, or if there are multiple *DataRows* for it.

`export_data_rows(timeout_seconds=120, include_metadata: bool = False)` → Generator

Returns a generator that produces all data rows that are currently attached to this dataset.

Note: For efficiency, the data are cached for 30 minutes. Newly created data rows will not appear until the end of the cache period.

Parameters

- **`timeout_seconds`** (*float*) – Max waiting time, in seconds.
- **`include_metadata`** (*bool*) – True to return related *DataRow* metadata

Returns Generator that yields *DataRow* objects belonging to this dataset.

Raises **`LabelboxError`** – if the export fails or is unable to download within the specified time.

LABEL

```
class labelbox.schema.label.Label(*args, **kwargs)
```

Bases: labelbox.orm.db_object.DbObject, labelbox.orm.db_object.Updateable, labelbox.orm.db_object.BulkDeletable

Label represents an assessment on a DataRow. For example one label could contain 100 bounding boxes (annotations).

label

Type str

seconds_to_label

Type float

agreement

Type float

benchmark_agreement

Type float

is_benchmark_reference

Type bool

project

ToOne relationship to Project

Type Relationship

data_row

ToOne relationship to DataRow

Type Relationship

reviews

ToMany relationship to Review

Type Relationship

created_by

ToOne relationship to User

Type Relationship

static bulk_delete(labels) → None

Deletes all the given Labels.

Parameters labels (*list of Label*) – The Labels to delete.

create_benchmark() → *Benchmark*

Creates a Benchmark for this Label.

Returns The newly created Benchmark.

create_review(kwargs)** → *Review*

Creates a Review for this label.

Parameters **kwargs – Review attributes. At a minimum, a *Review.score* field value must be provided.

LABELINGFRONTEND

class labelbox.schema.labeling_frontend.**LabelingFrontend**(*client, field_values*)

Bases: labelbox.orm.db_object.DbObject

Label editor.

Represents an HTML / JavaScript UI that is used to generate labels. “Editor” is the default Labeling Frontend that comes in every organization. You can create new labeling frontends for an organization.

name

Type str

description

Type str

iframe_url_path

Type str

projects

ToMany relationship to Project

Type Relationship

LABELINGFRONTENDOPTIONS

class `labelbox.schema.labeling_frontend.LabelingFrontendOptions`(*client, field_values*)

Bases: `labelbox.orm.db_object.DbObject`

Label interface options.

customization_options

Type `str`

project

ToOne relationship to Project

Type `Relationship`

labeling_frontend

ToOne relationship to LabelingFrontend

Type `Relationship`

organization

ToOne relationship to Organization

Type `Relationship`

LABELINGPARAMETEROVERRIDE

class labelbox.schema.project.**LabelingParameterOverride**(*client, field_values*)

Bases: labelbox.orm.db_object.DbObject

Customizes the order of assets in the label queue.

priority

A prioritization score.

Type int

number_of_labels

Number of times an asset should be labeled.

Type int

ONTOLOGY

```
class labelbox.schema.ontology.FeatureSchema(client, field_values)
```

```
    Bases: labelbox.orm.db_object.DbObject
```

```
labelbox.schema.ontology.FeatureSchemaId
```

```
    alias of labelbox.schema.ontology.ConstrainedStrValue
```

```
class labelbox.schema.ontology.Ontology(*args, **kwargs)
```

```
    Bases: labelbox.orm.db_object.DbObject
```

```
    An ontology specifies which tools and classifications are available to a project. This is read only for now. ..  
    attribute:: name
```

```
        type str
```

```
    description
```

```
        Type str
```

```
    updated_at
```

```
        Type datetime
```

```
    created_at
```

```
        Type datetime
```

```
    normalized
```

```
        Type json
```

```
    object_schema_count
```

```
        Type int
```

```
    classification_schema_count
```

```
        Type int
```

```
    projects
```

```
        ToMany relationship to Project
```

```
        Type Relationship
```

```
    created_by
```

```
        ToOne relationship to User
```

```
        Type Relationship
```

classifications() → List[labelbox.schema.ontology.Classification]

Get list of classifications in an Ontology.

tools() → List[labelbox.schema.ontology.Tool]

Get list of tools (AKA objects) in an Ontology.

```
class labelbox.schema.ontology.OntologyBuilder(tools: typing.List[labelbox.schema.ontology.Tool] =  
                                              <factory>, classifications:  
                                              typing.List[labelbox.schema.ontology.Classification] =  
                                              <factory>)
```

Bases: object

A class to help create an ontology for a Project. This should be used for making Project ontologies from scratch. OntologyBuilder can also pull from an already existing Project's ontology.

There are no required instantiation arguments.

To create an ontology, use the `asdict()` method after fully building your ontology within this class, and inserting it into `project.setup()` as the “`labeling_frontend_options`” parameter.

Example

```
builder = OntologyBuilder() ... frontend = list(client.get_labeling_frontends())[0] project.setup(frontend,  
builder.asdict())
```

tools

(list)

classifications

(list)

labelbox.schema.ontology.SchemaId

alias of labelbox.schema.ontology.ConstrainedStrValue

ORGANIZATION

```
class labelbox.schema.organization.Organization(*args, **kwargs)
```

Bases: `labelbox.orm.db_object.DbObject`

An Organization is a group of Users.

It is associated with data created by Users within that Organization. Typically all Users within an Organization have access to data created by any User in the same Organization.

updated_at

Type `datetime`

created_at

Type `datetime`

name

Type `str`

users

ToMany relationship to User

Type `Relationship`

projects

ToMany relationship to Project

Type `Relationship`

webhooks

ToMany relationship to Webhook

Type `Relationship`

create_resource_tag(tag: *Dict[str, str]*) → *labelbox.schema.resource_tag.ResourceTag*

Creates a resource tag.

```
>>> tag = {'text': 'tag-1', 'color': 'ffffff'}
```

Parameters **tag** (*dict*) – A resource tag {‘text’: ‘tag-1’, ‘color’: ‘ffff’}

Returns The created resource tag.

get_default_iam_integration() → Optional[IAMIntegration]

Returns the default IAM integration for the organization. Will return None if there are no default integrations for the org.

get_iam_integrations() → List[IAMIntegration]

Returns all IAM Integrations for an organization

get_resource_tags() → List[labelbox.schema.resource_tag.ResourceTag]

Returns all resource tags for an organization

invite_limit() → labelbox.schema.invite.InviteLimit

Retrieve invite limits for the org This already accounts for users currently in the org Meaning that *used* = *users* + *invites*, *remaining* = *limit* - (*users* + *invites*)

Returns InviteLimit

invite_user(*email*: str, *role*: Role, *project_roles*: Optional[List[ProjectRole]] = None) → Invite

Invite a new member to the org. This will send the user an email invite

Parameters

- **email** (str) – email address of the user to invite
- **role** (Role) – Role to assign to the user
- **project_roles** (Optional[List[ProjectRoles]]) – List of project roles to assign to the User (if they have a project based org role).

Returns Invite for the user

Notes

1. **Multiple invites can be sent for the same email. This can only be resolved in the UI for now.**
 - Future releases of the SDK will support the ability to query and revoke invites to solve this problem (and/or checking on the backend)
2. Some server side response are unclear (e.g. if the user invites themselves *None* is returned which the SDK raises as a *LabelboxError*)

remove_user(*user*: User) → None

Deletes a user from the organization. This cannot be undone without sending another invite.

Parameters **user** (User) – The user to delete from the org

PROJECT

```
class labelbox.schema.project.Project(client, field_values)
    Bases: labelbox.orm.db_object.DbObject, labelbox.orm.db_object.Updateable, labelbox.orm.
            db_object.Deletable

    A Project is a container that includes a labeling frontend, an ontology, datasets and labels.

    name

        Type str
    description

        Type str
    updated_at

        Type datetime
    created_at

        Type datetime
    setup_complete

        Type datetime
    last_activity_time

        Type datetime
    queue_mode

        Type string
    auto_audit_number_of_labels

        Type int
    auto_audit_percentage

        Type float
    datasets

        ToMany relationship to Dataset

        Type Relationship
```

created_by

ToOne relationship to User

Type Relationship

organization

ToOne relationship to Organization

Type Relationship

labeling_frontend

ToOne relationship to LabelingFrontend

Type Relationship

labeling_frontend_options

ToMany relationship to LabelingFrontendOptions

Type Relationship

labeling_parameter_overrides

ToMany relationship to LabelingParameterOverride

Type Relationship

webhooks

ToMany relationship to Webhook

Type Relationship

benchmarks

ToMany relationship to Benchmark

Type Relationship

ontology

ToOne relationship to Ontology

Type Relationship

batches() → *labelbox.pagination.PaginatedCollection*

Fetch all batches that belong to this project

Returns A `PaginatedCollection` of `Batch`'es

bulk_import_requests() → *labelbox.pagination.PaginatedCollection*

Returns bulk import request objects which are used in model-assisted labeling. These are returned with the oldest first, and most recent last.

create_batch(*name: str, data_rows: List[str], priority: int = 5, consensus_settings: Optional[Dict[str, float]] = None*)

Create a new batch for a project. Batches is in Beta and subject to change

Parameters

- **name** – a name for the batch, must be unique within a project
- **data_rows** – Either a list of *DataRows* or Data Row ids
- **priority** – An optional priority for the Data Rows in the Batch. 1 highest -> 5 lowest
- **consensus_settings** – An optional dictionary with consensus settings: `{‘number_of_labels’: 3, ‘coverage_percentage’: 0.1}`

enable_model_assisted_labeling(*toggle: bool = True*) → bool

Turns model assisted labeling either on or off based on input

Parameters **toggle** (*bool*) – True or False boolean

Returns True if toggled on or False if toggled off

export_issues(*status=None*) → str

Calls the server-side Issues exporting that returns the URL to that payload.

Parameters **status** (*string*) – valid values: Open, Resolved

Returns URL of the data file with this Project's issues.

export_labels(*download=False, timeout_seconds=1800, **kwargs*) → Optional[Union[str, List[Dict[Any, Any]]]]

Calls the server-side Label exporting that generates a JSON payload, and returns the URL to that payload.

Will only generate a new URL at a max frequency of 30 min.

Parameters

- **download** (*bool*) – Returns the url if False
- **timeout_seconds** (*float*) – Max waiting time, in seconds.
- **start** (*str*) – Earliest date for labels, formatted “YYYY-MM-DD” or “YYYY-MM-DD hh:mm:ss”
- **end** (*str*) – Latest date for labels, formatted “YYYY-MM-DD” or “YYYY-MM-DD hh:mm:ss”

Returns URL of the data file with this Project's labels. If the server didn't generate during the *timeout_seconds* period, None is returned.

export_queued_data_rows(*timeout_seconds=120, include_metadata: bool = False*) → List[Dict[str, str]]

Returns all data rows that are currently enqueued for this project.

Parameters

- **timeout_seconds** (*float*) – Max waiting time, in seconds.
- **include_metadata** (*bool*) – True to return related DataRow metadata

Returns Data row fields for all data rows in the queue as json

Raises **LabelboxError** – if the export fails or is unable to download within the specified time.

extend_reservations(*queue_type*) → int

Extends all the current reservations for the current user on the given queue type. :param queue_type: Either “LabelingQueue” or “ReviewQueue” :type queue_type: str

Returns int, the number of reservations that were extended.

get_queue_mode() → labelbox.schema.queue_mode.QueueMode

Provides the queue mode used for this project.

Deprecation notice: This method is deprecated and will be removed in a future version. To obtain the queue mode of a project, simply refer to the `queue_mode` attribute of a Project.

For more information, visit <https://docs.labelbox.com/reference/migrating-to-workflows#upcoming-changes>

Returns: the QueueMode for this project

label_generator(*timeout_seconds=600, **kwargs*)

Download text and image annotations, or video annotations.

For a mixture of text/image and video, use `project.export_labels()`

Returns LabelGenerator for accessing labels

labeler_performance() → *labelbox.pagination.PaginatedCollection*

Returns the labeler performances for this Project.

Returns A PaginatedCollection of LabelerPerformance objects.

labels(*datasets=None, order_by=None*) → *labelbox.pagination.PaginatedCollection*

Custom relationship expansion method to support limited filtering.

Parameters

- **datasets** (*iterable of Dataset*) – Optional collection of Datasets whose Labels are sought. If not provided, all Labels in this Project are returned.
- **order_by** (*None or (Field, Field.Order)*) – Ordering clause.

members() → *labelbox.pagination.PaginatedCollection*

Fetch all current members for this project

Returns A `PaginatedCollection of `ProjectMember`s

review_metrics(*net_score*) → int

Returns this Project's review metrics.

Parameters **net_score** (*None or Review.NetScore*) – Indicates desired metric.

Returns int, aggregation count of reviews for given *net_score*.

set_labeling_parameter_overrides(*data*) → bool

Adds labeling parameter overrides to this project.

See information on priority here: <https://docs.labelbox.com/en/configure-editor/queue-system#reservation-system>

```
>>> project.set_labeling_parameter_overrides([
>>>     (data_row_1, 2, 3), (data_row_2, 1, 4)])
```

Parameters **data** (*iterable*) – An iterable of tuples. Each tuple must contain (DataRow, priority<int>, number_of_labels<int>) for the new override.

Priority:

- **Data will be labeled in priority order.**
 - A lower number priority is labeled first.
 - Minimum priority is 1.
- **Priority is not the queue position.**
 - The position is determined by the relative priority.
 - **E.g.** [(data_row_1, 5,1), (data_row_2, 2,1), (data_row_3, 10,1)] will be assigned in the following order: [data_row_2, data_row_1, data_row_3]
- Datarows with parameter overrides will appear before datarows without overrides.
- **The priority only effects items in the queue.**

- Assigning a priority will not automatically add the item back into the queue.

Number of labels:

- **The number of times a data row should be labeled.**
 - Creates duplicate data rows in a project (one for each number of labels).
- **New duplicated data rows will be added to the queue.**
 - Already labeled duplicates will not be sent back to the queue.
- **The queue will never assign the same datarow to a single labeler more than once.**
 - **If the number of labels is greater than the number of labelers working on a project then the extra items will remain in the queue (this can be fixed by removing the override at any time).**
- Setting this to 1 will result in the default behavior (no duplicates).

Returns bool, indicates if the operation was a success.

setup(*labeling_frontend*, *labeling_frontend_options*) → None

Finalizes the Project setup.

Parameters

- **labeling_frontend** ([LabelingFrontend](#)) – Which UI to use to label the data.
- **labeling_frontend_options** (*dict or str*) – Labeling frontend options, a.k.a. project ontology. If given a *dict* it will be converted to *str* using *json.dumps*.

setup_editor(*ontology*) → None

Sets up the project using the Pictor editor.

Parameters *ontology* ([Ontology](#)) – The ontology to attach to the project

unset_labeling_parameter_overrides(*data_rows*) → bool

Removes labeling parameter overrides to this project.

- This will remove unlabeled duplicates in the queue.

Parameters *data_rows* (*iterable*) – An iterable of DataRows.

Returns bool, indicates if the operation was a success.

update(***kwargs*)

Updates this project with the specified attributes

Parameters *kwargs* – a dictionary containing attributes to be upserted

Note that the *queue_mode* cannot be changed after a project has been created.

Additionally, the quality setting cannot be changed after a project has been created. The quality mode for a project is inferred through the following attributes: Benchmark:

`auto_audit_number_of_labels = 1 auto_audit_percentage = 1.0`

Consensus: `auto_audit_number_of_labels > 1 auto_audit_percentage <= 1.0`

Attempting to switch between benchmark and consensus modes is an invalid operation and will result in an error.

update_project_resource_tags(*resource_tag_ids*: List[str]) → List[[labelbox.schema.resource_tag.ResourceTag](#)]

Creates project resource tags

Parameters *resource_tag_ids* –

Returns a list of ResourceTag ids that was created.

upload_annotations(*name: str, annotations: Union[str, pathlib.Path, Iterable[Dict]], validate: bool = False*) → *BulkImportRequest*

Uploads annotations to a new Editor project.

Parameters

- **name** (*str*) – name of the BulkImportRequest job
- **annotations** (*str or Path or Iterable*) – url that is publicly accessible by Labelbox containing an ndjson file OR local path to an ndjson file OR iterable of annotation rows
- **validate** (*bool*) – Whether or not to validate the payload before uploading.

Returns BulkImportRequest

upsert_instructions(*instructions_file: str*) → None

- Uploads instructions to the UI. Running more than once will replace the instructions

Parameters **instructions_file** (*str*) – Path to a local file. * Must be a pdf or html file

Raises **ValueError** –

- project must be setup * instructions file must have a “.pdf” or “.html” extension

upsert_review_queue(*quota_factor*) → None

Sets the the proportion of total assets in a project to review.

More information can be found here: <https://docs.labelbox.com/en/quality-assurance/review-labels#configure-review-percentage>

Parameters **quota_factor** (*float*) – Which part (percentage) of the queue to reinitiate. Between 0 and 1.

class labelbox.schema.project.**ProjectMember**(*client, field_values*)

Bases: labelbox.orm.db_object.DbObject

REVIEW

```
class labelbox.schema.review.Review(client, field_values)
```

Bases: labelbox.orm.db_object.DbObject, labelbox.orm.db_object.Deletable, labelbox.orm.db_object.Updateable

Reviewing labeled data is a collaborative quality assurance technique.

A Review object indicates the quality of the assigned Label. The aggregated review numbers can be obtained on a Project object.

created_at

Type datetime

updated_at

Type datetime

score

Type float

created_by

ToOne relationship to User

Type Relationship

organization

ToOne relationship to Organization

Type Relationship

project

ToOne relationship to Project

Type Relationship

label

ToOne relationship to Label

Type Relationship

```
class NetScore(value)
```

Bases: enum.Enum

Negative, Zero, or Positive.

TASK

class `labelbox.schema.task.Task`(*client, field_values*)

Bases: `labelbox.orm.db_object.DbObject`

Represents a server-side process that might take a longer time to process. Allows the Task state to be updated and checked on the client side.

updated_at

Type `datetime`

created_at

Type `datetime`

name

Type `str`

status

Type `str`

completion_percentage

Type `float`

created_by

ToOne relationship to User

Type `Relationship`

organization

ToOne relationship to Organization

Type `Relationship`

property errors: `Optional[Dict[str, Any]]`

Fetch the error associated with an import task.

property failed_data_rows: `Optional[Dict[str, Any]]`

Fetch data rows which failed to be created for an import task.

refresh() \rightarrow `None`

Refreshes Task data from the server.

property result: `List[Dict[str, Any]]`

Fetch the result for an import task.

wait_till_done(*timeout_seconds=300*) \rightarrow `None`

Waits until the task is completed. Periodically queries the server to update the task attributes.

Parameters `timeout_seconds` (*float*) – Maximum time this method can block, in seconds. Defaults to one minute.

USER

```
class labelbox.schema.user.User(client, field_values)
```

```
    Bases: labelbox.orm.db_object.DbObject
```

A User is a registered Labelbox user (for example you) associated with data they create or import and an Organization they belong to.

```
    updated_at
```

```
        Type datetime
```

```
    created_at
```

```
        Type datetime
```

```
    email
```

```
        Type str
```

```
    name
```

```
        Type str
```

```
    nickname
```

```
        Type str
```

```
    intercom_hash
```

```
        Type str
```

```
    picture
```

```
        Type str
```

```
    is_viewer
```

```
        Type bool
```

```
    is_external_viewer
```

```
        Type bool
```

```
    organization
```

```
        ToOne relationship to Organization
```

```
        Type Relationship
```

```
    created_tasks
```

```
        ToMany relationship to Task
```

```
        Type Relationship
```

```
    projects
```

```
        ToMany relationship to Project
```

```
        Type Relationship
```

remove_from_project(*project*: [Project](#)) → None

Removes a User from a project. Only used for project based users. Project based user means their org role is "NONE"

Parameters **project** ([Project](#)) – Project to remove user from

update_org_role(*role*: [Role](#)) → None

Updated the User's organization role.

See `client.get_roles()` to get all valid roles If you a user is converted from project level permissions to org level permissions and then convert back, their permissions will remain for each individual project

Parameters **role** ([Role](#)) – The role that you want to set for this user.

upsert_project_role(*project*: [Project](#), *role*: [Role](#)) → None

Updates or replaces a User's role in a project.

Parameters

- **project** ([Project](#)) – The project to update the users permissions for
- **role** ([Role](#)) – The role to assign to this user in this project.

WEBHOOK

class `labelbox.schema.webhook.Webhook`(*client, field_values*)

Bases: `labelbox.orm.db_object.DbObject`, `labelbox.orm.db_object.Updateable`

Represents a server-side rule for sending notifications to a web-server whenever one of several predefined actions happens within a context of a Project or an Organization.

updated_at

Type `datetime`

created_at

Type `datetime`

url

Type `str`

topics

`LABEL_CREATED, LABEL_UPDATED, LABEL_DELETED, REVIEW_CREATED, REVIEW_UPDATED, REVIEW_DELETED`

Type `str`

status

`ACTIVE, INACTIVE, REVOKED`

Type `str`

class `Status`(*value*)

Bases: `enum.Enum`

An enumeration.

class `Topic`(*value*)

Bases: `enum.Enum`

An enumeration.

static `create`(*client, topics, url, secret, project*) → `labelbox.schema.webhook.Webhook`

Creates a Webhook.

Parameters

- **client** (`Client`) – The Labelbox client used to connect to the server.
- **topics** (*list of str*) – A list of topics this Webhook should get notifications for. Must be one of `Webhook.Topic`
- **url** (*str*) – The URL to which notifications should be sent by the Labelbox server.
- **secret** (*str*) – A secret key used for signing notifications.

- **project** (*Project* or *None*) – The project for which notifications should be sent. If *None* notifications are sent for all events in your organization.

Returns A newly created Webhook.

Raises **ValueError** – If the topic is not one of *Topic* or status is not one of *Status*

Information on configuring your server can be found here (this is where the url points to and the secret is set).

<https://docs.labelbox.com/en/configure-editor/webhooks-setup#setup-steps>

delete() → *None*

Deletes the webhook

update(*topics=None, url=None, status=None*)

Updates the Webhook.

Parameters

- **topics** (*Optional[List[Topic]]*) – The new topics.
- **Optional[str]** (*url*) – The new URL value.
- **status** (*Optional[Status]*) – The new status. If an argument is set to *None* then no updates will be made to that field.

EXCEPTIONS

exception `labelbox.exceptions.ApiLimitError(message, cause=None)`

Bases: `labelbox.exceptions.LabelboxError`

Raised when the user performs too many requests in a short period of time.

exception `labelbox.exceptions.AuthenticationError(message, cause=None)`

Bases: `labelbox.exceptions.LabelboxError`

Raised when an API key fails authentication.

exception `labelbox.exceptions.AuthorizationError(message, cause=None)`

Bases: `labelbox.exceptions.LabelboxError`

Raised when a user is unauthorized to perform the given request.

exception `labelbox.exceptions.InconsistentOntologyException`

Bases: `Exception`

exception `labelbox.exceptions.InternalServerError(message, cause=None)`

Bases: `labelbox.exceptions.LabelboxError`

Nondescript prisma or 502 related errors.

Meant to be retryable.

TODO: these errors need better messages from platform

exception `labelbox.exceptions.InvalidAttributeError(db_object_type, field)`

Bases: `labelbox.exceptions.LabelboxError`

Raised when a field (name or Field instance) is not valid or found for a specific DB object type.

exception `labelbox.exceptions.InvalidQueryError(message, cause=None)`

Bases: `labelbox.exceptions.LabelboxError`

Indicates a malconstructed or unsupported query (either by GraphQL in general or by Labelbox specifically). This can be the result of either client or server side query validation.

exception `labelbox.exceptions.LabelboxError(message, cause=None)`

Bases: `Exception`

Base class for exceptions.

exception `labelbox.exceptions.MALValidationError(message, cause=None)`

Bases: `labelbox.exceptions.LabelboxError`

Raised when user input is invalid for MAL imports.

exception `labelbox.exceptions.MalformedQueryException`

Bases: `Exception`

Raised when the user submits a malformed query.

exception `labelbox.exceptions.NetworkError(cause)`

Bases: `labelbox.exceptions.LabelboxError`

Raised when an HTTPError occurs.

exception `labelbox.exceptions.OperationNotAllowedException`

Bases: `Exception`

Raised when user does not have permissions to a resource or has exceeded usage limit

exception `labelbox.exceptions.ResourceConflict(message, cause=None)`

Bases: `labelbox.exceptions.LabelboxError`

Exception raised when a given resource conflicts with another.

exception `labelbox.exceptions.ResourceCreationError(message, cause=None)`

Bases: `labelbox.exceptions.LabelboxError`

Indicates that a resource could not be created in the server side due to a validation or transaction error

exception `labelbox.exceptions.ResourceNotFoundError(db_object_type, params)`

Bases: `labelbox.exceptions.LabelboxError`

Exception raised when a given resource is not found.

exception `labelbox.exceptions.TimeoutError(message, cause=None)`

Bases: `labelbox.exceptions.LabelboxError`

Raised when a request times-out.

exception `labelbox.exceptions.UuidError(message, cause=None)`

Bases: `labelbox.exceptions.LabelboxError`

Raised when there are repeat Uuid's in bulk import request.

exception `labelbox.exceptions.ValidationFailedError(message, cause=None)`

Bases: `labelbox.exceptions.LabelboxError`

Exception raised for when a GraphQL query fails validation (query cost, etc.) E.g. a query that is too expensive, or depth is too deep.

PAGINATION

```
class labelbox.pagination.PaginatedCollection(client: Client, query: str, params: Dict[str, str],
                                             dereferencing: Union[List[str], Dict[str, Any]],
                                             obj_class: Union[Type[DbObject], Callable[[Any, Any],
                                             Any]], cursor_path: Optional[List[str]] = None,
                                             experimental: bool = False)
```

Bases: object

An iterable collection of database objects (Projects, Labels, etc...).

Implements automatic (transparent to the user) paginated fetching during iteration. Intended for use by library internals and not by the end user. For a list of attributes see `__init__`(...) documentation. The params of `__init__` map exactly to object attributes.

```
__init__(client: Client, query: str, params: Dict[str, str], dereferencing: Union[List[str], Dict[str, Any]],
         obj_class: Union[Type[DbObject], Callable[[Any, Any], Any]], cursor_path: Optional[List[str]]
         = None, experimental: bool = False)
```

Creates a PaginatedCollection.

Parameters

- **client** (*labelbox.Client*) – the client used for fetching data from DB.
- **query** (*str*) – Base query used for pagination. It must contain two ‘%d’ placeholders, the first for pagination ‘skip’ clause and the second for the ‘first’ clause.
- **params** (*dict*) – Query parameters.
- **dereferencing** (*iterable*) – An iterable of str defining the keypath that needs to be dereferenced in the query result in order to reach the paginated objects of interest.
- **obj_class** (*type*) – The class of object to be instantiated with each dict containing db values.
- **cursor_path** – If not None, this is used to find the cursor
- **experimental** – Used to call experimental endpoints

ENUMS

class `labelbox.schema.enums.AnnotationImportState(value)`

Bases: `enum.Enum`

State of the import job when importing annotations (RUNNING, FAILED, or FINISHED).

State	Description
RUN- NING	Indicates that the import job is not done yet.
FAILED	Indicates the import job failed. Check <i>AnnotationImport.errors</i> for more information
FIN- ISHED	Indicates the import job is no longer running. Check <i>AnnotationImport.statuses</i> for more information

class `labelbox.schema.enums.BulkImportRequestState(value)`

Bases: `enum.Enum`

State of the import job when importing annotations (RUNNING, FAILED, or FINISHED).

If you are not using MEA continue using BulkImportRequest. AnnotationImports are in beta and will change soon.

State	Description
RUN- NING	Indicates that the import job is not done yet.
FAILED	Indicates the import job failed. Check <i>BulkImportRequest.errors</i> for more information
FIN- ISHED	Indicates the import job is no longer running. Check <i>BulkImportRequest.statuses</i> for more information

class `labelbox.schema.enums.CollectionJobStatus(value)`

Bases: `enum.Enum`

Status of an asynchronous job over a collection.

- – State
- – Description
- – SUCCESS
 - Indicates job has successfully processed entire collection of data
- – PARTIAL SUCCESS
 - Indicates some data in the collection has succeeded and other data have failed
- – FAILURE
 - Indicates job has failed to process entire collection of data

MODEL RUN

class `labelbox.schema.model_run.DataSplit(value)`

Bases: `enum.Enum`

An enumeration.

class `labelbox.schema.model_run.ModelRun(client, field_values)`

Bases: `labelbox.orm.db_object.DbObject`

class `Status(value)`

Bases: `enum.Enum`

An enumeration.

add_predictions(*name: str, predictions: Union[str, pathlib.Path, Iterable[Dict]]*) → *MEAPredictionImport*

Uploads predictions to a new Editor project. :param name: name of the AnnotationImport job :type name: str :param predictions: url that is publicly accessible by Labelbox containing an ndjson file OR local path to an ndjson file OR iterable of annotation rows

Returns AnnotationImport

delete()

Deletes specified Model Run.

Returns Query execution success.

delete_model_run_data_rows(*data_row_ids: List[str]*)

Deletes data rows from Model Runs.

Parameters **data_row_ids** (*list*) – List of data row ids to delete from the Model Run.

Returns Query execution success.

export_labels(*download: bool = False, timeout_seconds: int = 600*) → Optional[Union[str, List[Dict[Any, Any]]]]

Experimental. To use, make sure client has `enable_experimental=True`.

Fetches Labels from the ModelRun

Parameters **download** (*bool*) – Returns the url if False

Returns URL of the data file with this ModelRun's labels. If `download=True`, this instead returns the contents as NDJSON format. If the server didn't generate during the *time-out_seconds* period, None is returned.

get_config() → Dict[str, Any]

Gets Model Run's training metadata :returns: training metadata as a dictionary

reset_config() → Dict[str, Any]

Resets Model Run's training metadata config :returns: Model Run id and reset training metadata

update_config(*config: Dict[str, Any]*) → Dict[str, Any]

Updates the Model Run's training metadata config :param config: A dictionary of keys and values :type config: dict

Returns Model Run id and updated training metadata

upsert_data_rows(*data_row_ids, timeout_seconds=3600*)

Adds data rows to a Model Run without any associated labels :param data_row_ids: data row ids to add to mea :type data_row_ids: list :param timeout_seconds: Max waiting time, in seconds. :type timeout_seconds: float

Returns ID of newly generated async task

upsert_labels(*label_ids, timeout_seconds=3600*)

Adds data rows and labels to a Model Run :param label_ids: label ids to insert :type label_ids: list :param timeout_seconds: Max waiting time, in seconds. :type timeout_seconds: float

Returns ID of newly generated async task

upsert_predictions_and_send_to_project(*name: str, predictions: Union[str, pathlib.Path, Iterable[Dict]], project_id: str, priority: Optional[int] = 5*) → *MEAPredictionImport*

Provides a convenient way to execute the following steps in a single function call:

1. Upload predictions to a Model
2. Create a batch from data rows that had predictions associated with them
3. Attach the batch to a project
4. Add those same predictions to the project as MAL annotations

Note that partial successes are possible. If it is important that all stages are successful then check the status of each individual task with `task.errors`. E.g.

```
>>> mea_import_job, batch, mal_import_job = upsert_predictions_and_send_to_
↳project(name, predictions, project_id)
>>> # handle mea import job successfully created (check for job failure or_
↳partial failures)
>>> print(mea_import_job.status, mea_import_job.errors)
>>> if batch is None:
>>>     # Handle batch creation failure
>>> if mal_import_job is None:
>>>     # Handle mal_import_job creation failure
>>> else:
>>>     # handle mal import job successfully created (check for job failure_
↳or partial failures)
>>> print(mal_import_job.status, mal_import_job.errors)
```

Parameters

- **name** (*str*) – name of the AnnotationImport job as well as the name of the batch import
- **predictions** (*Iterable*) – iterable of annotation rows
- **project_id** (*str*) – id of the project to import into
- **priority** (*int*) – priority of the job

Returns Tuple[MEAPredictionImport, Batch, MEAToMALPredictionImport] If any of these steps fail the return value will be None.

class `labelbox.schema.model_run.ModelRunDataRow`(*client, model_id, *args, **kwargs*)

Bases: `labelbox.orm.db_object.DbObject`

MODEL

class `labelbox.schema.model.Model`(*client, field_values*)

Bases: `labelbox.orm.db_object.DbObject`

A model represents a program that has been trained and can make predictions on new data. .. attribute:: name

type str

model_runs

ToMany relationship to `ModelRun`

Type Relationship

create_model_run(*name, config=None*) → *ModelRun*

Creates a model run belonging to this model.

Parameters

- **name** (*string*) – The name for the model run.
- **config** (*json*) – Model run's training metadata config

Returns `ModelRun`, the created model run.

delete() → None

Deletes specified model.

Returns Query execution success.

DATAROWMETADATA

class `labelbox.schema.data_row_metadata.DataRowMetadataKind(value)`

Bases: `enum.Enum`

An enumeration.

class `labelbox.schema.data_row_metadata.DataRowMetadataOntology(client)`

Bases: `object`

Ontology for data row metadata

Metadata provides additional context for a data rows. Metadata is broken into two classes reserved and custom. Reserved fields are defined by Labelbox and used for creating specific experiences in the platform.

```
>>> mdo = client.get_data_row_metadata_ontology()
```

bulk_delete(*deletes: List[labelbox.schema.data_row_metadata.DeleteDataRowMetadata]*) → *List[labelbox.schema.data_row_metadata.DataRowMetadataBatchResponse]*

Delete metadata from a datarow by specifying the fields you want to remove

```
>>> delete = DeleteDataRowMetadata(  
>>>     data_row_id="datarow-id",  
>>>     fields=[  
>>>         "schema-id-1",  
>>>         "schema-id-2"  
>>>         ...  
>>>     ]  
>>> )  
>>> mdo.batch_delete([metadata])
```

Parameters *deletes* – Data row and schema ids to delete

Returns list of unsuccessful deletions. An empty list means all data rows were successfully deleted.

bulk_export(*data_row_ids: List[str]*) → *List[labelbox.schema.data_row_metadata.DataRowMetadata]*

Exports metadata for a list of data rows

```
>>> mdo.bulk_export([data_row.uid for data_row in data_rows])
```

Parameters *data_row_ids* – List of data data rows to fetch metadata for

Returns A list of `DataRowMetadata`. There will be one `DataRowMetadata` for each *data_row_id* passed in. This is true even if the data row does not have any meta data. Data rows without metadata will have empty *fields*.

bulk_upsert(*metadata*: List[labelbox.schema.data_row_metadata.DataRowMetadata]) → List[labelbox.schema.data_row_metadata.DataRowMetadataBatchResponse]

Upsert datarow metadata

```
>>> metadata = DataRowMetadata(
>>>     data_row_id="datarow-id",
>>>     fields=[
>>>         DataRowMetadataField(schema_id="schema-id", value=
→ "my-message"),
>>>         ...
>>>     ]
>>> )
>>> mdo.batch_upsert([metadata])
```

Parameters *metadata* – List of DataRow Metadata to upsert

Returns list of unsuccessful upserts. An empty list means the upload was successful.

create_schema(*name*: str, *kind*: labelbox.schema.data_row_metadata.DataRowMetadataKind, *options*: Optional[List[str]] = None) → labelbox.schema.data_row_metadata.DataRowMetadataSchema

Create metadata schema

```
>>> mdo.create_schema(name, kind, options)
```

Parameters

- **name** (str) – Name of metadata schema
- **kind** (DataRowMetadataKind) – Kind of metadata schema as *DataRowMetadataKind*
- **options** (List[str]) – List of Enum options

Returns Created metadata schema as *DataRowMetadataSchema*

Raises **KeyError** – When provided name is not a valid custom metadata

delete_schema(*name*: str) → bool

Delete metadata schema

```
>>> mdo.delete_schema(name)
```

Parameters *name* – Name of metadata schema to delete

Returns True if deletion is successful, False if unsuccessful

Raises **KeyError** – When provided name is not a valid custom metadata

parse_metadata(*unparsed*: List[Dict[str, List[Union[str, Dict]]]]) → List[labelbox.schema.data_row_metadata.DataRowMetadata]

Parse metadata responses

```
>>> mdo.parse_metadata([metadata])
```

Parameters *unparsed* – An unparsed metadata export

Returns List of *DataRowMetadata*

Return type metadata

parse_metadata_fields(*unparsed: List[Dict[str, Dict]]*) →
List[labelbox.schema.data_row_metadata.DataRowMetadataField]

Parse metadata fields as list of *DataRowMetadataField*

```
>>> mdo.parse_metadata_fields([metadata_fields])
```

Parameters **unparsed** – An unparsed list of metadata represented as a dict containing ‘schemaId’ and ‘value’

Returns List of *DataRowMetadataField*

Return type metadata

parse_upsert_metadata(*metadata_fields*) → List[Dict[str, Any]]

Converts either *DataRowMetadataField* or a dictionary representation of *DataRowMetadataField* into a validated, flattened dictionary of metadata fields that are used to create data row metadata. Used internally in *Dataset.create_data_rows()*

Parameters **metadata_fields** – List of *DataRowMetadataField* or a dictionary representation of *DataRowMetadataField*

Returns List of dictionaries representing a flattened view of metadata fields

refresh_ontology()

Update the *DataRowMetadataOntology* instance with the latest metadata ontology schemas

update_enum_option(*name: str, option: str, new_option: str*) →
labelbox.schema.data_row_metadata.DataRowMetadataSchema

Update Enum metadata schema option

```
>>> mdo.update_enum_option(name, option, new_option)
```

Parameters

- **name** (*str*) – Name of metadata schema to update
- **option** (*str*) – Name of Enum option to update
- **new_option** (*str*) – New name of Enum option

Returns Updated metadata schema as *DataRowMetadataSchema*

Raises **KeyError** – When provided name is not a valid custom metadata

update_schema(*name: str, new_name: str*) →
labelbox.schema.data_row_metadata.DataRowMetadataSchema

Update metadata schema

```
>>> mdo.update_schema(name, new_name)
```

Parameters

- **name** (*str*) – Current name of metadata schema
- **new_name** (*str*) – New name of metadata schema

Returns Updated metadata schema as *DataRowMetadataSchema*

Raises **KeyError** – When provided name is not a valid custom metadata

labelbox.schema.data_row_metadata.**String**

alias of labelbox.schema.data_row_metadata.ConstrainedStrValue

ANNOTATIONIMPORT

```
class labelbox.schema.annotation_import.AnnotationImport(client, field_values)
```

Bases: `labelbox.orm.db_object.DbObject`

property errors: `List[Dict[str, Any]]`

Errors for each individual annotation uploaded. This is a subset of statuses :returns: List of dicts containing error messages. Empty list means there were no errors

See *AnnotationImport.statuses* for more details.

- This information will expire after 24 hours.

property inputs: `List[Dict[str, Any]]`

Inputs for each individual annotation uploaded. This should match the ndjson annotations that you have uploaded. :returns: Uploaded ndjson.

- This information will expire after 24 hours.

refresh() → None

Synchronizes values of all fields with the database.

property statuses: `List[Dict[str, Any]]`

Status for each individual annotation uploaded. :returns: A status for each annotation if the upload is done running.

See below table for more details

- This information will expire after 24 hours.

wait_until_done(*sleep_time_seconds: int = 10, show_progress: bool = False*) → None

Blocks import job until certain conditions are met. Blocks until the `AnnotationImport.state` changes either to `AnnotationImportState.FINISHED` or `AnnotationImportState.FAILED`, periodically refreshing object's state. :param *sleep_time_seconds*: a time to block between subsequent API calls :type *sleep_time_seconds*: int :param *show_progress*: should show progress bar :type *show_progress*: bool

```
class labelbox.schema.annotation_import.LabelImport(client, field_values)
```

Bases: `labelbox.schema.annotation_import.AnnotationImport`

classmethod create_from_file(*client: labelbox.client.Client, project_id: str, name: str, path: str*) → `labelbox.schema.annotation_import.LabelImport`

Create a label import job from a file of annotations

Parameters

- **client** – Labelbox Client for executing queries
- **project_id** – Project to import labels into
- **name** – Name of the import job. Can be used to reference the task later
- **path** – Path to ndjson file containing annotations

Returns LabelImport

classmethod **create_from_objects**(*client*: [labelbox.client.Client](#), *project_id*: str, *name*: str, *labels*: List[Dict[str, Any]]) → [labelbox.schema.annotation_import.LabelImport](#)

Create a label import job from an in memory dictionary

Parameters

- **client** – Labelbox Client for executing queries
- **project_id** – Project to import labels into
- **name** – Name of the import job. Can be used to reference the task later
- **labels** – List of labels

Returns LabelImport

classmethod **create_from_url**(*client*: [labelbox.client.Client](#), *project_id*: str, *name*: str, *url*: str) → [labelbox.schema.annotation_import.LabelImport](#)

Create a label annotation import job from a url The url must point to a file containing label annotations.

Parameters

- **client** – Labelbox Client for executing queries
- **project_id** – Project to import labels into
- **name** – Name of the import job. Can be used to reference the task later
- **url** – Url pointing to file to upload

Returns LabelImport

classmethod **from_name**(*client*: [labelbox.client.Client](#), *project_id*: str, *name*: str, *as_json*: bool = False) → [labelbox.schema.annotation_import.LabelImport](#)

Retrieves an label import job.

Parameters

- **client** – Labelbox Client for executing queries
- **project_id** – ID used for querying import jobs
- **name** – Name of the import job.

Returns LabelImport

property **parent_id**: str

Identifier for this import. Used to refresh the status

class [labelbox.schema.annotation_import.MALPredictionImport](#)(*client*, *field_values*)

Bases: [labelbox.schema.annotation_import.AnnotationImport](#)

classmethod **create_from_file**(*client*: [labelbox.client.Client](#), *project_id*: str, *name*: str, *path*: str) → [labelbox.schema.annotation_import.MALPredictionImport](#)

Create an MAL prediction import job from a file of annotations

Parameters

- **client** – Labelbox Client for executing queries
- **project_id** – Project to import labels into
- **name** – Name of the import job. Can be used to reference the task later
- **path** – Path to ndjson file containing annotations

Returns MALPredictionImport

classmethod `create_from_objects`(*client*: [labelbox.client.Client](#), *project_id*: *str*, *name*: *str*, *predictions*: *List[Dict[str, Any]]*) → [labelbox.schema.annotation_import.MALPredictionImport](#)

Create an MAL prediction import job from an in memory dictionary

Parameters

- **client** – Labelbox Client for executing queries
- **project_id** – Project to import labels into
- **name** – Name of the import job. Can be used to reference the task later
- **predictions** – List of prediction annotations

Returns MALPredictionImport

classmethod `create_from_url`(*client*: [labelbox.client.Client](#), *project_id*: *str*, *name*: *str*, *url*: *str*) → [labelbox.schema.annotation_import.MALPredictionImport](#)

Create an MAL prediction import job from a url The url must point to a file containing prediction annotations.

Parameters

- **client** – Labelbox Client for executing queries
- **project_id** – Project to import labels into
- **name** – Name of the import job. Can be used to reference the task later
- **url** – Url pointing to file to upload

Returns MALPredictionImport

classmethod `from_name`(*client*: [labelbox.client.Client](#), *project_id*: *str*, *name*: *str*, *as_json*: *bool* = *False*) → [labelbox.schema.annotation_import.MALPredictionImport](#)

Retrieves an MAL import job.

Parameters

- **client** – Labelbox Client for executing queries
- **project_id** – ID used for querying import jobs
- **name** – Name of the import job.

Returns MALPredictionImport

property `parent_id`: *str*

Identifier for this import. Used to refresh the status

class `labelbox.schema.annotation_import.MEAPredictionImport`(*client*, *field_values*)

Bases: [labelbox.schema.annotation_import.AnnotationImport](#)

classmethod `create_from_file`(*client*: [labelbox.client.Client](#), *model_run_id*: *str*, *name*: *str*, *path*: *str*) → [labelbox.schema.annotation_import.MEAPredictionImport](#)

Create an MEA prediction import job from a file of annotations

Parameters

- **client** – Labelbox Client for executing queries
- **model_run_id** – Model run to import labels into
- **name** – Name of the import job. Can be used to reference the task later

- **path** – Path to ndjson file containing annotations

Returns MEAPredictionImport

classmethod **create_from_objects**(*client*: [labelbox.client.Client](#), *model_run_id*: *str*, *name*, *predictions*)
→ [labelbox.schema.annotation_import.MEAPredictionImport](#)

Create an MEA prediction import job from an in memory dictionary

Parameters

- **client** – Labelbox Client for executing queries
- **model_run_id** – Model run to import labels into
- **name** – Name of the import job. Can be used to reference the task later
- **predictions** – List of prediction annotations

Returns MEAPredictionImport

classmethod **create_from_url**(*client*: [labelbox.client.Client](#), *model_run_id*: *str*, *name*: *str*, *url*: *str*) →
[labelbox.schema.annotation_import.MEAPredictionImport](#)

Create an MEA prediction import job from a url The url must point to a file containing prediction annotations.

Parameters

- **client** – Labelbox Client for executing queries
- **model_run_id** – Model run to import labels into
- **name** – Name of the import job. Can be used to reference the task later
- **url** – Url pointing to file to upload

Returns MEAPredictionImport

classmethod **from_name**(*client*: [labelbox.client.Client](#), *model_run_id*: *str*, *name*: *str*, *as_json*: *bool* = *False*) → [labelbox.schema.annotation_import.MEAPredictionImport](#)

Retrieves an MEA import job.

Parameters

- **client** – Labelbox Client for executing queries
- **model_run_id** – ID used for querying import jobs
- **name** – Name of the import job.

Returns MEAPredictionImport

property **parent_id**: *str*

Identifier for this import. Used to refresh the status

class [labelbox.schema.annotation_import.METoMALPredictionImport](#)(*client*, *field_values*)

Bases: [labelbox.schema.annotation_import.AnnotationImport](#)

classmethod **create_for_model_run_data_rows**(*client*: [labelbox.client.Client](#), *model_run_id*: *str*,
data_row_ids: *List[str]*, *project_id*: *str*, *name*: *str*) →
[labelbox.schema.annotation_import.METoMALPredictionImport](#)

Create an MEA to MAL prediction import job from a list of data row ids of a specific model run

Parameters

- **client** – Labelbox Client for executing queries
- **data_row_ids** – A list of data row ids

- **model_run_id** – model run id

Returns MEAToMALPredictionImport

classmethod from_name(*client*: [labelbox.client.Client](#), *project_id*: *str*, *name*: *str*, *as_json*: *bool* = *False*)
→ [labelbox.schema.annotation_import.MEAToMALPredictionImport](#)

Retrieves an MEA to MAL import job.

Parameters

- **client** – Labelbox Client for executing queries
- **project_id** – ID used for querying import jobs
- **name** – Name of the import job.

Returns MALPredictionImport

property parent_id: **str**

Identifier for this import. Used to refresh the status

BATCH

class `labelbox.schema.batch.Batch`(*client, project_id, *args, **kwargs*)

Bases: `labelbox.orm.db_object.DbObject`

A Batch is a group of data rows submitted to a project for labeling

name

Type `str`

created_at

Type `datetime`

updated_at

Type `datetime`

deleted

Type `bool`

project

ToOne relationship to Project

Type `Relationship`

created_by

ToOne relationship to User

Type `Relationship`

delete() → `None`

Deletes the given batch.

Note: Batch deletion for batches that has labels is forbidden.

Parameters **batch** (`Batch`) – Batch to remove queued data rows from

delete_labels(*set_labels_as_template=False*) → `None`

Deletes labels that were created for data rows in the batch.

Parameters

- **batch** (`Batch`) – Batch to remove queued data rows from
- **set_labels_as_template** (*bool*) – When set to true, the deleted labels will be kept as templates.

export_data_rows(*timeout_seconds=120, include_metadata: bool = False*) → `Generator`

Returns a generator that produces all data rows that are currently in this batch.

Note: For efficiency, the data are cached for 30 minutes. Newly created data rows will not appear until the end of the cache period.

Parameters

- **timeout_seconds** (*float*) – Max waiting time, in seconds.
- **include_metadata** (*bool*) – True to return related DataRow metadata

Returns Generator that yields DataRow objects belonging to this batch.

Raises *LabelboxError* – if the export fails or is unable to download within the specified time.

project() → *Project*

Returns Project which this Batch belongs to

Raises *LabelboxError* – if the project is not found

remove_queued_data_rows() → None

Removes remaining queued data rows from the batch and labeling queue.

Parameters **batch** (*Batch*) – Batch to remove queued data rows from

RESOURCE TAG

```
class labelbox.schema.resource_tag.ResourceTag(client, field_values)
    Bases: labelbox.orm.db_object.DbObject, labelbox.orm.db_object.Updateable
    Resource tag to label and identify your labelbox resources easier.

    text
        Type str

    color
        Type str

    project_resource_tag
        ToMany relationship to ProjectResourceTag
        Type Relationship
```


SLICE

```
class labelbox.schema.slice.Slice(client, field_values)
```

```
    Bases: labelbox.orm.db_object.DbObject
```

A Slice is a saved set of filters (saved query). This is an abstract class and should not be instantiated.

```
    name
```

```
        Type datetime
```

```
    description
```

```
        Type datetime
```

```
    created_at
```

```
        Type datetime
```

```
    updated_at
```

```
        Type datetime
```

```
    filter
```

```
        Type json
```


CATALOGSLICE

class `labelbox.schema.slice.CatalogSlice`(*client, field_values*)

Bases: `labelbox.schema.slice.Slice`

Represents a Slice used for filtering data rows in Catalog.

get_data_row_ids() → `labelbox.pagination.PaginatedCollection`

Fetches all data row ids that match this Slice

Returns A PaginatedCollection of data row ids

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