
MyMagento

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MYMAGENTO

1.1 About MyMagento

What's MyMagento?

MyMagento is a highly interconnected package that wraps and extends the Magento 2 REST API, providing a more intuitive and user-friendly interface to access and update your store.

...

1.1.1 MyMagento simplifies interaction with the Magento 2 REST API

If you've worked with the Magento 2 API, you'll know that not all endpoints are created equally.

MyMagento aims to streamline your workflow, offering efficient API wrapper methods for a large number of API operations across multiple endpoints. It takes care of the small details so that you can stay focused on the more important aspects of managing your store.

...

1.1.2 Main Components

The Client

- Handles all interactions with the API, with support for multiple store views
 - Accessible from all objects created by the package
-

The SearchQuery and Subclasses

- `execute()` predefined or custom search queries on any endpoint
-

- Supports simple and advanced [searches using REST endpoints](#)
-

The Model Subclasses

- Wrap all API responses in the package
 - Provide additional endpoint-specific functionality for data updates and retrieval
-

...

1.2 Installation

Installing MyMagento

To install using pip:

```
pip install my-magento
```

Please note that MyMagento requires Python ≥ 3.10

...

1.3 QuickStart: Login with MyMagento

Use the credentials of your Magento 2 admin account to initialize and `authenticate()` a `Client`

```
from magento import Client

>>> api = Client('website.com', 'username', 'password', login=False)
>>> api.authenticate()

|[ MyMagento | website_username ]|: Authenticating username on website.com...
|[ MyMagento | website_username ]|: Logged in to username
```

1.4 Indices and tables

- `genindex`
- `modindex`
- *[Full Table of Contents](#)*

INTERACTING WITH THE API

2.1 Performing a search()

Using the `search()` method, you can query any [API endpoint](#) for data about an individual or list of items:

From the Docs...

`Client.search(endpoint)`

Initializes and returns a [SearchQuery](#) corresponding to the specified endpoint

Note: Several endpoints have predefined [SearchQuery](#) and [Model](#) subclasses

If a subclass hasn't been defined for the endpoint yet, a general [SearchQuery](#) will be returned, which wraps the [result](#) with [APIResponse](#)

Parameters

endpoint (`str`) – a valid Magento API search endpoint

Return type

[SearchQuery](#)

The following [Client](#) attributes correspond to endpoint-specific [SearchQuery](#) objects:

<code>Client.orders</code>	Initializes an OrderSearch for the orders endpoint
<code>Client.order_items</code>	Initializes an OrderItemSearch for the orders/items endpoint
<code>Client.invoices</code>	Initializes an InvoiceSearch for the invoices endpoint
<code>Client.products</code>	Initializes a ProductSearch for the products endpoint
<code>Client. product_attributes</code>	Initializes a ProductAttributeSearch for the products/attributes endpoint
<code>Client.categories</code>	Initializes a CategorySearch for the categories endpoint

...

Example: `search()` an endpoint

```
# Query the "orders" endpoint
>>> api.search("orders") # api.orders
```

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```
<magento.search.OrderSearch object at 0x000001EB74FF4DC0>

# Query an endpoint without a predefined SearchQuery
>>> api.search("customers/addresses")
<magento.search.SearchQuery object at 0x000001EB75482F20>
```

For endpoints with no `SearchQuery` and `Model` defined, the `APIResponse` is used as the wrapper class:

```
# APIResponse wraps the result when the endpoint has no Model
>>> address = api.search("customers/addresses").by_id(1)
>>> print(address)
<magento.models.model.APIResponse object at 0x00000260A5F2B340>

>>> print(address.region)
{'region_code': 'MI', 'region': 'Michigan', 'region_id': 33}
```

...

2.2 Search Results as Models

The `result` data of any query is parsed and wrapped by the endpoint's corresponding `Model`, making it easier to interact with

```
# Retrieve product by sku
>>> product = api.products.by_sku("24-MB01")
>>> print(product)
<Magento Product: 24-MB01>

>>> print(f'Name: {product.name} | Price: {product.price}')
Name: Joust Duffle Bag | Price: 99

>>> product.categories
[<Magento Category: Gear>, <Magento Category: Bags>]

>>> product.media_gallery_entries
[<MediaEntry 3417 for <Magento Product: 24-MB01>: Front View>, <MediaEntry 1 for <Magento_
Product: 24-MB01>: Side View>, ...]
```

2.2.1 Model Methods

The `Model` classes have methods to update their data on the store, as well as to search for related items

Example: Retrieving every Order containing a Product

Using the same product from above, we can search for orders as follows

```
# Using the Product itself
>>> product.get_orders()
```

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```
[<Magento Order: "#000000003" placed on 2022-12-21 08:09:33>, ... ]

# Using an OrderSearch
>>> api.orders.by_product(product)
>>> api.orders.by_product_id(product.id)
>>> api.orders.by_sku(product.sku)

[<Magento Order: "#000000003" placed on 2022-12-21 08:09:33>, ... ]
```

Example: Retrieving a Category and related Models

```
# Get Category data
>>> category = api.categories.by_name("Watches")
>>> category.get_products()
[<Magento Product: 24-MG04>, <Magento Product: 24-MG01>, <Magento Product: 24-MG03>, ... ]

>>> category.get_invoices()
[<Magento Invoice: "#000000004"> for <Magento Order: "#000000004" placed on 2022-11-14-
03:27:33>, ... ]
```

The `Model` subclasses also have various methods to update data on the store, with scoping taken into account

```
# Update Product Stock
>>> product.update_stock(3)
[ MyMagento | website_username ]|: Updated stock to 4 for <Magento Product: 24-MB01>

# Update thumbnail label on specific store view
>>> product.thumbnail.set_alt_text('Thumbnail on "EN" store view', scope='EN')
>>> print(product.thumbnail)
<MediaEntry 3417 for <Magento Product: 24-MB01>: Thumbnail on "EN" store view>
```

...

2.3 Building Custom Search Queries

In addition to the predefined methods, you can build your own queries too – simply `add_criteria()`, `restrict_fields()`, and `execute()` the search

Example

```
# Retrieve orders placed since the start of 2023
>>> api.orders.add_criteria(
...     field="created_at",
...     value="2023-01-01",
...     condition="gteq"
... ).execute()
```

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```
[<Magento Order: "#000000012" placed on 2023-01-02 05:19:55>, <Magento Order: "#000000013"
↳placed on 2023-01-05 09:24:13>]
```

...

2.4 Making Raw Requests

The `Client` can also be used to generate the `url_for()` any API endpoint, including a store `scope`

```
# Generate the url for credit memo with id 7
>>> api.url_for('creditmemo/7')
"https://website.com/rest/V1/creditmemo/7"

# Generate the same url on the "en" store view
>>> api.url_for('creditmemo/7', scope='en')
"https://domain.com/rest/en/V1/creditmemo/7"
```

An authorized `get()`, `post()`, `put()`, or `delete()` request can be made to any endpoint url

```
>>> response = api.get(api.url_for('creditmemo/7'))
>>> print(response.json())

{'adjustment': 1.5, 'adjustment_negative': 0, 'adjustment_positive': 1.5, 'base_adjustment':
↳1.5, ... }
```

THE MAGENTO PACKAGE

The magento package provides various tools to help simplify interaction with the Magento 2 API.

3.1 The clients module

```
class magento.clients.Client(domain, username, password, scope="", user_agent=None, token=None,
                             log_level='INFO', login=True, **kwargs)
```

Bases: `object`

The class that handles all interaction with the API

```
__init__(domain, username, password, scope="", user_agent=None, token=None, log_level='INFO',
         login=True, **kwargs)
```

Initialize a Client

Important!

The Magento account you use to log in must be assigned a **User Role** that has the appropriate API resources included in its **Resource Access** settings

This can be verified in Magento Admin by going to:

System -> Permissions -> User Roles -> {Role} -> Role Resources -> Resource Access

and ensuring that Sales, Catalog, Customers, and any other desired resources are included

Parameters

- **domain** (`str`) – domain name of the Magento store (ex. domain.com)
- **username** (`str`) – username of the Magento Admin account
- **password** (`str`) – password of the Magento Admin account
- **scope** (`Optional[str]`) – the store view scope to `search()` and make requests on
- **user_agent** (`Optional[str]`) – the user agent to use in requests
- **token** (`Optional[str]`) – an existing access token
- **log_level** (`str`) – the logging level for logging to stdout
- **login** (`bool`) – if True, calls `authenticate()` upon initialization

- **kwargs** – see below

...

Optional Keyword Arguments

- **log_file** (`str`) – log file to use for the client's `logger`
- **log_requests** (`bool`) - if `True`, the logs from `requests` will be added to the client's `log_file`

BASE_URL: `str`

The base API URL

USER_CREDENTIALS: `Dict[str, str]`

The user credentials

ACCESS_TOKEN: `str`

The API access token

domain: `str`

The Magento store domain

scope: `str`

The store view code to request/update data on

user_agent: `str`

The user agent to use in requests

logger: `MagentoLogger`

The `MagentoLogger` for the domain/username combination

store: `Store`

An initialized `Store` object

classmethod `new()`

Prompts for input to log in to the Magento API

Return type

`Client`

classmethod `load(pickle_bytes)`

Initialize a `Client` using a pickle bytestring from `to_pickle()`

Return type

`Client`

classmethod `from_json(json_str)`

Initialize a `Client` from a JSON string of settings

Return type

`Client`

classmethod `from_dict(d)`

Initialize a `Client` from a dictionary of settings

Return type

`Client`

url_for(*endpoint*, *scope=None*)

Returns the appropriate request url for the given API endpoint and store scope

Example

```
# Generate the url for credit memo with id 7
>> api=Client("domain.com", "user", "password")
>> api.url_for('creditmemo/7')
"https://domain.com/rest/V1/creditmemo/7"

# Generate the same url on the "en" store view
>> api.url_for('creditmemo/7', scope='en')
"https://domain.com/rest/en/V1/creditmemo/7"
```

Parameters

- **endpoint** (*str*) – the API endpoint
- **scope** (*Optional[str]*) – the scope to generate the url for; uses the `Client.scope` if not provided

Return type

str

search(*endpoint*)

Initializes and returns a `SearchQuery` corresponding to the specified endpoint

Note: Several endpoints have predefined `SearchQuery` and `Model` subclasses

If a subclass hasn't been defined for the endpoint yet, a general `SearchQuery` will be returned, which wraps the `result` with `APIResponse`

Parameters

endpoint (*str*) – a valid Magento API search endpoint

Return type

`SearchQuery`

property orders: `OrderSearch`

Initializes an `OrderSearch`

property order_items: `OrderItemSearch`

Initializes an `OrderItemSearch`

property invoices: `InvoiceSearch`

Initializes an `InvoiceSearch`

property categories: `CategorySearch`

Initializes a `CategorySearch`

property products: `ProductSearch`

Initializes a `ProductSearch`

property product_attributes: [ProductAttributeSearch](#)

Initializes a [ProductAttributeSearch](#)

get(url)

Sends an authorized GET request

Parameters

url ([str](#)) – the URL to make the request on

Return type

[Response](#)

post(url, payload)

Sends an authorized POST request

Parameters

- **url** ([str](#)) – the URL to make the request on
- **payload** ([dict](#)) – the JSON payload for the request

Return type

[Response](#)

put(url, payload)

Sends an authorized PUT request

Parameters

- **url** ([str](#)) – the URL to make the request on
- **payload** ([dict](#)) – the JSON payload for the request

Return type

[Response](#)

delete(url)

Sends an authorized DELETE request

Parameters

url ([str](#)) – the URL to make the request on

Return type

[Response](#)

authenticate()

Authenticates the [USER_CREDENTIALS](#) and retrieves an access token

Return type

[bool](#)

validate()

Validates the [token](#) by sending an authorized request to a standard API endpoint

Return type

[bool](#)

request(method, url, payload=None)

Sends an authorized API request. Used for all internal requests

Tip: Use [get\(\)](#), [post\(\)](#), [put\(\)](#) or [delete\(\)](#) instead

Parameters

- **method** (*str*) – the request method
- **url** (*str*) – the url to send the request to
- **payload** (*Optional[dict]*) – the JSON payload for the request (if the method is POST or PUT)

Return type*Response***get_logger**(*log_file=None, stdout_level='INFO', log_requests=True*)

Retrieve a MagentoLogger for the current username/domain combination. Log files are DEBUG.

Parameters

- **log_file** (*Optional[str]*) – the file to log to
- **stdout_level** (*str*) – the logging level for stdout logging
- **log_requests** (*bool*) – if True, adds the FileHandler to the connectionpool logger

Return type*MagentoLogger***property headers:** *dict*

Authorization headers for API requests

Automatically generates a *token* if needed**property token:** *str*

Returns or generates an ACCES_TOKEN

to_pickle(*validate=False*)

Serializes the Client to a pickle bytestring

Parameters

- **validate** (*bool*) – if True, validates the *token*/USER_CREDENTIALS before serializing

Return type*bytes***to_json**(*validate=False*)

Serializes the Client to a JSON string

Parameters

- **validate** (*bool*) – if True, validates the *token*/USER_CREDENTIALS before serializing

Return type*str***to_dict**(*validate=False*)

Serializes the Client to a dictionary

Parameters

- **validate** (*bool*) – if True, validates the *token*/USER_CREDENTIALS before serializing

Return type*Dict[str, str]***view_config()**

Prints the Client configuration settings

class magento.clients.Store(*client*)

Bases: `object`

Class containing store configurations and cached attribute lists

__init__(*client*)

Initialize a Store object

Parameters

client (`Client`) – an initialized `Client` object

property `is_single_store`: `bool`

Whether the store has a single store view (default) or multiple store views

property `active`: `APIResponse`

Returns the store config corresponding to the current `scope` of the `Client`

property `configs`: `Optional[Union[APIResponse, List[APIResponse]]]`

Returns a list of all store configurations

property `views`: `Optional[Union[APIResponse, List[APIResponse]]]`

Returns a list of all store views

property `all_product_attributes`: `List[ProductAttribute]`

A cached list of all product attributes

property `store_view_product_attributes`: `List[ProductAttribute]`

A cached list of all product attributes with the Store View scope

property `website_product_attributes`: `List[ProductAttribute]`

A cached list of all product attributes with the Web Site scope

property `global_product_attributes`: `List[ProductAttribute]`

A cached list of all product attributes with the Global scope

property `website_attribute_codes`: `List[str]`

The attribute codes of the `website_product_attributes`

filter_website_attrs(*attribute_data*)

Filters a product attribute dict and returns a new one that contains only the website scope attributes

Website scoped attributes must be updated on the admin by making a second request on the all scope

- This method is called by `update_attributes()` and `update_custom_attributes()` to see if the second request is needed

Example

The price attribute is Website scope and the meta_title attribute is Store View scope

```
>> attribute_data = {'price': 12, 'meta_title': 'My Product'}
>> store.filter_website_attrs(attribute_data)
{'price': 12}
```


Parameters**attribute_data** (*dict*) – a dict of product attributes**Return type***dict***refresh()**

Clears all cached properties

Return type*bool*

3.2 The search module

class `magento.search.SearchQuery(endpoint, client, model=<class 'magento.models.model.APIResponse'>)`Bases: `object`Queries any endpoint that invokes the `searchCriteria` interface. Parent of all endpoint-specific search classes**Tip:** See <https://developer.adobe.com/commerce/webapi/rest/use-rest/performing-searches/> for official docs**__init__**(*endpoint, client, model=<class 'magento.models.model.APIResponse'>*)Initialize a `SearchQuery` object**Parameters**

- **endpoint** (*str*) – the base search API endpoint (for example, `orders`)
- **client** (*Client*) – an initialized `Client` object
- **model** (*Type[Model]*) – the `Model` to parse the response data with; uses `APIResponse` if not specified

clientThe `Client` to send the search request with**endpoint**

The endpoint being queried

ModelThe *magento.models* subpackage class to wrap the response with**query**

The current url for the search request

fieldsRestricted fields, from `restrict_fields()`

add_criteria(*field*, *value*, *condition*='eq', ***kwargs*)

Add criteria to the search query

Parameters

- **field** – the API response field to search by
- **value** – the value of the field to compare
- **condition** – the comparison condition
- **kwargs** – additional search option arguments (group and filter)

Returns

the calling SearchQuery object

Return type

Self

Options

condition: condition used to evaluate the attribute value

(Default Value) 'eq' = (field=value)

'gt' > 'lt' < 'gteq' >= 'lteq' <= 'in' []

group: filter group number

filter: filter number (within the specified filter group)

Using Filter Groups

Filter groups are filter criteria in the form of { field: value }

Group 0 Filter 0 -> Filter 0 Group 0 Filter 0 + Group 0 Filter 1 -> Filter 0 OR

Filter 1 Group 0 Filter 0 + Group 1 Filter 0 -> Filter 0 AND Filter 0

restrict_fields(*fields*)

Constrain the API response data to only contain the specified fields

Parameters

fields (Iterable[str]) – an iterable or comma separated string of fields to include in the response

Returns

the calling SearchQuery object

Return type

Self

execute()

Sends the search request using the current `scope` of the `client`

Tip: Change the `Client.scope` to retrieve `result` data from different store `views`

Returns

the search query `result`

Return type

`Optional[Union[Model, List[Model]]]`

by_id(*item_id*)

Retrieve data for an individual item by its id

Note: The id field used is different depending on the endpoint being queried

- Most endpoints use an `entity_id` or `id`
- The orders/items endpoint uses `item_id`
- The products endpoint uses `product_id`, but can also be queried `by_sku()`

The `IDENTIFIER` attribute of each `Model` contains the appropriate field

Parameters

item_id (`Union[int, str]`) – id of the item to retrieve

Return type

`Optional[Model]`

by_list(*field, values*)

Search for multiple items using an iterable or comma-separated string of field values

Example

Search for orders that are processing, pending, or completed:

```
# Values can be a list/tuple/iterable
>> api.orders.by_list('status', ['processing', 'pending', 'completed'])

# Values can be a comma-separated string
>> api.orders.by_list('status', 'processing,pending,completed')
```

Parameters

- **field** (`str`) – the API response field to search for matches in
- **values** (`Iterable`) – an iterable or comma separated string of values

Return type

`Optional[Model, List[Model]]`

property result: `Optional[Union[Model, List[Model]]]`

The result of the search query, wrapped by the `Model` corresponding to the endpoint

Returns

the API response as either an individual or list of `Model` objects

validate_result()

Parses the response and returns the actual result data, regardless of search approach

Return type

`Optional[Union[Dict, List[Dict]]]`

parse(*data*)

Parses the API response with the corresponding [Model](#) object

Parameters

data ([dict](#)) – API response data of a single item

Return type

[Model](#)

reset()

Resets the query and result, allowing the object to be reused

property result_count: [int](#)

Number of items that matched the search criteria

property result_type: [Type](#)

The type of the result

class [magento.search.OrderSearch](#)(*client*)

Bases: [SearchQuery](#)

[SearchQuery](#) subclass for the orders endpoint

__init__(*client*)

Initialize an [OrderSearch](#)

Parameters

client ([Client](#)) – an initialized [Client](#) object

by_number(*order_number*)

Retrieve an [Order](#) by number

Parameters

order_number ([Union](#)[[int](#), [str](#)]) – the order number ([increment_id](#))

Return type

[Optional](#)[[Order](#)]

by_product(*product*)

Search for all [Order](#) s of a [Product](#)

Parameters

product ([Product](#)) – the [Product](#) to search for in orders

Return type

[Optional](#)[[Union](#)[[Order](#), [List](#)[[Order](#)]]]

by_sku(*sku*)

Search for [Order](#) by product sku

Note: Like [OrderItemSearch.by_sku\(\)](#), the sku will need to be an exact match to the sku of a simple product, including a custom option if applicable

- Use [by_product\(\)](#) or [by_product_id\(\)](#) to find orders containing any of the [option_skus](#) and/or all [children](#) of a configurable product
-

Parameters

sku (*str*) – the exact product sku to search for in orders

Return type

Optional[Union[Order, List[Order]]]

by_product_id(*product_id*)

Search for *Order* s by *product_id*

Parameters

product_id (*Union[int, str]*) – the id (*product_id*) of the product to search for in orders

Return type

Optional[Union[Order, List[Order]]]

by_category_id(*category_id*, *search_subcategories=False*)

Search for *Order* s by *category_id*

Parameters

- **category_id** (*Union[int, str]*) – id of the category to search for in orders
- **search_subcategories** (*bool*) – if *True*, also searches for orders from *all_subcategories*

Returns

any *Order* containing a *Product* in the corresponding *Category*

Return type

Optional[Union[Order, List[Order]]]

by_category(*category*, *search_subcategories=False*)

Search for *Order* s that contain any of the category's *products*

Parameters

- **category** (*Category*) – the *Category* to use in the search
- **search_subcategories** (*bool*) – if *True*, also searches for orders from *all_subcategories*

Returns

any *Order* that contains a product in the provided category

Return type

Optional[Union[Order, List[Order]]]

by_skulist(*skulist*)

Search for *Order* s using a list or comma separated string of product SKUs

Parameters

skulist (*Union[str, Iterable[str]]*) – an iterable or comma separated string of product SKUs

Return type

Optional[Union[Order, List[Order]]]

from_items(*items*)

Retrieve unique *Order* objects from *OrderItem* entries using a single request

Parameters

items (*Optional[OrderItem | List[OrderItem]]*) – an individual/list of order items

Return type*Optional[Order, List[Order]]***class** magento.search.**OrderItemSearch**(client)Bases: *SearchQuery**SearchQuery* subclass for the orders/items endpoint**__init__**(client)Initialize an *OrderItemSearch***Parameters****client** (*Client*) – an initialized *Client* object**property result:** *Optional[Union[OrderItem, List[OrderItem]]]*The result of the search query, wrapped by the *Model* corresponding to the endpoint**Returns**the API response as either an individual or list of *Model* objects**parse**(data)Overrides *SearchQuery.parse()* to fully hydrate *OrderItem* objectsExtra validation is required for OrderItems, as duplicated and/or incomplete data is returned when the child of a configurable product is searched *by_sku()* or *by_product()***Parameters****data** – API response data**Return type***Optional[OrderItem]***by_product**(product)Search for *OrderItem* entries by *Product*

Note: This will match OrderItems that contain

- Any of the child products of a configurable product
 - Any of the *option_skus* of a product with custom options
-

Parameters**product** (*Product*) – the *Product* to search for in order items**Return type***Optional[Union[OrderItem, List[OrderItem]]]***by_sku**(sku)Search for *OrderItem* entries by product sku.

The SKU must be an exact match to the OrderItem SKU

OrderItems always use the SKU of a simple product, including any custom options. This means that:

- Searching the SKU of a configurable product returns nothing

- If a product has custom options, the search will only find OrderItems that contain the specific option sku (or base sku) that's provided

To search for OrderItems containing all `children` of a configurable product and/or all possible `option_skus`, use `by_product()` or `by_product_id()`

Parameters

sku (`str`) – the exact product sku to search for in order items

Return type

Optional[*Union*[*OrderItem*, *List*[*OrderItem*]]]

by_product_id(*product_id*)

Search for *OrderItem* entries by product id.

Parameters

product_id (*Union*[*int*, *str*]) – the id (*product_id*) of the *Product* to search for in order items

Return type

Optional[*Union*[*OrderItem*, *List*[*OrderItem*]]]

by_category_id(*category_id*, *search_subcategories=False*)

Search for *OrderItem* entries by *category_id*

Parameters

- **category_id** (*Union*[*int*, *str*]) – id of the *Category* to search for in order items
- **search_subcategories** (*bool*) – if True, also searches for order items from *all_subcategories*

Returns

any *OrderItem* containing a *Product* in the corresponding *Category*

Return type

Optional[*Union*[*OrderItem*, *List*[*OrderItem*]]]

by_category(*category*, *search_subcategories=False*)

Search for *OrderItem* entries that contain any of the category's *products*

Parameters

- **category** (*Category*) – the *Category* to use in the search
- **search_subcategories** (*bool*) – if True, also searches for order items from *all_subcategories*

Return type

Optional[*Union*[*OrderItem*, *List*[*OrderItem*]]]

by_skulist(*skulist*)

Search for `:class: ~.OrderItem`s` using a list or comma-separated string of product SKUs

Parameters

skulist (*Union*[*str*, *Iterable*[*str*]]) – an iterable or comma separated string of product SKUs

Return type

Optional[*Union*[*OrderItem*, *List*[*OrderItem*]]]

class magento.search.**InvoiceSearch**(*client*)

Bases: [SearchQuery](#)

[SearchQuery](#) subclass for the invoices endpoint

__init__(*client*)

Initialize an [InvoiceSearch](#)

Parameters

client ([Client](#)) – an initialized [Client](#) object

by_number(*invoice_number*)

Retrieve an [Invoice](#) by number

Parameters

invoice_number ([Union](#)[[int](#), [str](#)]) – the invoice number (increment_id)

Return type

[Optional](#)[[Invoice](#)]

by_order_number(*order_number*)

Retrieve an [Invoice](#) by order number

Parameters

order_number ([Union](#)[[int](#), [str](#)]) – the order number (increment_id)

Return type

[Optional](#)[[Invoice](#)]

by_order(*order*)

Retrieve the [Invoice](#) for an [Order](#)

Parameters

order ([Order](#)) – the [Order](#) object to retrieve an invoice for

Return type

[Optional](#)[[Invoice](#)]

by_order_id(*order_id*)

Retrieve an [Invoice](#) by order_id

Parameters

order_id ([Union](#)[[int](#), [str](#)]) – the order_id of the order to retrieve an invoice for

Return type

[Optional](#)[[Invoice](#)]

by_product(*product*)

Search for all [Invoice](#) s of a [Product](#)

Parameters

product ([Product](#)) – the [Product](#) to search for in invoices

Return type

[Optional](#)[[Union](#)[[Order](#), [List](#)[[Order](#)]]]

by_sku(*sku*)

Search for [Invoice](#) s by product sku

Note: Like `OrderItemSearch.by_sku()`, the sku will need to be an exact match to the sku of a simple product, including a custom option if applicable

- Use `by_product()` or `by_product_id()` to find orders containing any of the `option_skus` and/or all `children` of a configurable product
-

Parameters

sku (*str*) – the exact product sku to search for in invoices

Return type

Optional[Union[Invoice, List[Invoice]]]

by_product_id(*product_id*)

Search for *Invoice* s by *product_id*

Parameters

product_id (*Union[int, str]*) – the id (*product_id*) of the product to search for in invoices

Return type

Optional[Union[Invoice, List[Invoice]]]

by_category_id(*category_id*, *search_subcategories=False*)

Search for *Invoice* s by *category_id*

Parameters

- **category_id** (*Union[int, str]*) – id of the category to search for in orders
- **search_subcategories** (*bool*) – if *True*, also searches for orders from *all_subcategories*

Returns

any *Invoice* containing a *Product* in the corresponding *Category*

Return type

Optional[Union[Invoice, List[Invoice]]]

by_category(*category*, *search_subcategories=False*)

Search for *Invoice* s that contain any of the category's *products*

Parameters

- **category** (*Category*) – the *Category* to use in the search
- **search_subcategories** (*bool*) – if *True*, also searches for orders from *all_subcategories*

Returns

any *Invoice* that contains a product in the provided category

Return type

Optional[Union[Invoice, List[Invoice]]]

by_skulist(*skulist*)

Search for *Invoice* s using a list or comma separated string of product SKUs

Parameters

skulist (*Union[str, Iterable[str]]*) – an iterable or comma separated string of product SKUs

Return type*Optional[Union[Invoice, List[Invoice]]]***from_order_items**(items)Retrieve unique [Invoice](#) objects from [OrderItem](#) entries using a single request

Tip: Since there is no invoices/items endpoint, to search for invoices we must first do an [OrderItemSearch](#), then retrieve the order_ids and search [by_order_id\(\)](#)

Parameters**items** (*Optional[OrderItem | List[OrderItem]]*) – an individual/list of order items**Return type***Optional[Invoice, List[Invoice]]***class** magento.search.**ProductSearch**(client)Bases: [SearchQuery](#)[SearchQuery](#) subclass for the products endpoint**__init__**(client)Initialize a [ProductSearch](#)**Parameters****client** ([Client](#)) – an initialized [Client](#) object**property attributes:** [ProductAttributeSearch](#)Alternate way to access the [SearchQuery](#) for [ProductAttribute](#) data**by_id**(item_id)Retrieve a [Product](#) by product_id

Note: Response data from the products endpoint only has an id field, but all other endpoints that return data about products will use product_id

Parameters**item_id** (*Union[int, str]*) – the id (product_id) of the product**Return type***Optional[Product]***by_sku**(sku)Retrieve a [Product](#) by sku**Parameters****sku** – the product sku**Return type***Optional[Product]***by_skulist**(skulist)

Search for :class:`~.Product`'s using a list or comma separated string of SKUs

Parameters

skulist (`Union[str, Iterable[str]]`) – an iterable or comma separated string of SKUs

Return type

Optional[Union[Product, List[Product]]]

by_category(*category*, *search_subcategories=False*)

Search for `Product` s in a `Category`

Parameters

- **category** (`Category`) – the `Category` to retrieve products from
- **search_subcategories** (`bool`) – if `True`, also retrieves products from `all_subcategories`

Return type

Optional[Union[Product, List[Product]]]

by_category_id(*category_id*, *search_subcategories=False*)

Search for `Product` s by `category_id`

Parameters

- **category_id** (`Union[int, str]`) – the id of the `Category` to retrieve products from
- **search_subcategories** (`bool`) – if `True`, also retrieves products from `all_subcategories`

Return type

Optional[Union[Product, List[Product]]]

get_stock(*sku*)

Retrieve the `stock` of a product by `sku`

Parameters

sku – the product `sku`

Return type

Optional[int]

class `magento.search.ProductAttributeSearch`(*client*)

Bases: `SearchQuery`

`SearchQuery` subclass for the products/attributes endpoint

__init__(*client*)

Initialize a `ProductAttributeSearch`

Parameters

client (`Client`) – an initialized `Client` object

get_all()

Retrieve a list of all `:class:`~.ProductAttribute`s`

Return type

Optional[List[ProductAttribute]]

by_code(attribute_code)

Retrieve a `ProductAttribute` by its attribute code

Parameters

attribute_code (`str`) – the code of the `ProductAttribute`

Return type

`Optional[ProductAttribute]`

get_types()

Retrieve a list of all available `ProductAttribute` types

Return type

`Optional[List[APIResponse]]`

class magento.search.**CategorySearch**(client)

Bases: `SearchQuery`

`SearchQuery` subclass for the categories endpoint

__init__(client)

Initialize a `CategorySearch`

Parameters

client (`Client`) – an initialized `Client` object

get_root()

Retrieve the top level/default `Category` (every other category is a subcategory)

Return type

`Category`

get_all()

Retrieve a list of all categories

Return type

`List[Category]`

by_name(name, exact=True)

Search for a `Category` by name

Parameters

- **name** (`str`) – the category name to search for
- **exact** (`bool`) – whether the name should be an exact match

Return type

`Optional[Union[Category, List[Category]]]`

3.3 The exceptions module

exception magento.exceptions.**MagentoError**(*client*, *msg=None*, *response=None*)

Bases: `Exception`

Base exception class for error responses returned by the Magento API

Variables

DEFAULT_MSG – default exception message to use if a message isn't provided

DEFAULT_MSG = 'An error occurred while processing the request.'

__init__(*client*, *msg=None*, *response=None*)

Log and raise a `MagentoError`

Parameters

- **client** (`Client`) – an initialized `Client` object
- **msg** (Optional[`str`]) – optional exception message; prepended to the error message of the response (if provided).
- **response** (Optional[`Response`]) – optional response to `parse()` an error message from

static parse(*response*)

Parses the error message from the response, including message parameters when available

Parameters

response (Union[`Response`, `dict`]) – a bad response returned by the Magento API

Return type

`str`

exception magento.exceptions.**AuthenticationError**(*client*, *msg=None*, *response=None*)

Bases: `MagentoError`

Exception class for errors when trying to `authenticate()` a `Client`

DEFAULT_MSG = 'Failed to authenticate credentials.'

__init__(*client*, *msg=None*, *response=None*)

Log and raise a `MagentoError`

Parameters

- **client** (`Client`) – an initialized `Client` object
- **msg** (Optional[`str`]) – optional exception message; prepended to the error message of the response (if provided).
- **response** (Optional[`Response`]) – optional response to `parse()` an error message from

3.4 The utils module

class magento.utils.ItemManager(*items=None*)

Bases: `object`

__init__(*items=None*)

add(*item*)

get_attrs(*attr*)

sum_attrs(*attr*)

class magento.utils.LoggerUtils

Bases: `object`

Utility class that simplifies access to logger handler info

static **get_handler_names**(*logger*)

Get all handler names

Return type

`List[str]`

static **get_stream_handlers**(*logger*)

Get all the StreamHandlers of the current logger (NOTE: StreamHandler subclasses excluded)

Return type

`List[Handler]`

static **get_file_handlers**(*logger*)

Get all the FileHandlers of the current logger

Return type

`List[FileHandler]`

static **get_log_files**(*logger*)

Get the log file paths from all FileHandlers of a logger

Return type

`List[str]`

static **get_handler_by_log_file**(*logger, log_file*)

Returns the FileHandler logging to the specified file, given it exists

Return type

`Union[FileHandler, List[FileHandler]]`

static **clear_handlers**(*logger*)

Return type

`bool`

static **clear_stream_handlers**(*logger*)

Removes all StreamHandlers from a logger

Return type

`bool`

static `clear_file_handlers(logger)`

Removes all FileHandlers from a logger

Return type

bool

static `map_handlers_by_name(logger)`

Map the handlers of a logger first by type, and then by their name

FileHandlers are mapped to both their handlers and log file, while StreamHandlers are just mapped to the handler Handlers without a name will be skipped, because look at the method name (:

class `magento.utils.MagentoLogger(name, log_file=None, stdout_level='INFO', log_requests=True)`

Bases: `object`

Logging class used within the package

Variables

- **PREFIX** – hardcoded prefix to use in log messages
- **PACKAGE_LOG_NAME** – the default name for the package logger
- **CLIENT_LOG_NAME** – the default format for the client logger name
- **LOG_MESSAGE** – the default format for the message component of log messages. (Use `magento.logger.LOG_MESSAGE` for easy access)
- **FORMATTER** – the default logging format
- **HANDLER_NAME** – the default format for the names of handlers created by this package

PREFIX = 'MyMagento'

PACKAGE_LOG_NAME = 'my-magento'

CLIENT_LOG_NAME = '{domain}_{username}'

HANDLER_NAME = 'MyMagento_{name}_{stdout_level}'

LOG_MESSAGE = '|[MyMagento | {name}]|: {message}'

FORMATTER = `<logging.Formatter object>`

__init__(name, log_file=None, stdout_level='INFO', log_requests=True)

Initialize the logger

Each Client object corresponds to a unique username/domain combination, which is used to attach it to its associated MagentoLogger and log file, allowing all activity across all endpoints to be tracked. A package logger exists as well, which logs all activity from the package. All log files have their log level set to DEBUG

Parameters

- **name** (*str*) – logger name
- **log_file** (*Optional[str]*) – log file name; default is {name}.log
- **stdout_level** (*Union[int, str]*) – logging level for stdout logger; default is "INFO" (which is also logging.INFO and 10)
- **log_requests** (*bool*) – set to True to add logging from the requests package logger

setup_logger(*stdout_level*='INFO', *log_requests*=True)

Configures a logger and assigns it to the *logger* attribute.

Parameters

- **stdout_level** (Union[int, str]) – logging level to use for logging to console
- **log_requests** (bool) – set to True to add logs from the requests package (ie. API call logging)

Return type

bool

format_msg(*msg*)

Formats the LOG_MESSAGE using the specified message

Return type

str

debug(*msg*)

Formats the LOG_MESSAGE with the specified message, then logs it with Logger.debug()

info(*msg*)

Formats the LOG_MESSAGE with the specified message, then logs it with Logger.info()

error(*msg*)

Formats the LOG_MESSAGE with the specified message, then logs it with Logger.error()

warning(*msg*)

Formats the LOG_MESSAGE with the specified message, then logs it with Logger.warning()

critical(*msg*)

Formats the LOG_MESSAGE with the specified message, then logs it with Logger.critical()

property handlers

property handler_names

property handler_map

property file_handlers

property stream_handlers

property log_files

property log_path

static get_magento_handlers(*logger*)

static clear_magento_handlers(*logger*, *handler_type*, *clear_pkg*=False)

Clear all handlers from a logger that were created by MagentoLogger

Parameters

- **logger** (Logger) – any logger
- **handler_type** (Union[Type[FileHandler], Type[StreamHandler]]) – the logging handler type to check for and remove
- **clear_pkg** (bool) – if True, will delete the package handler for writing to my-magento.log (Default is False)

static clear_magento_file_handlers(*logger*, *clear_pkg=False*)

static clear_magento_stdout_handlers(*logger*, *clear_pkg=False*)

static owns_handler(*handler*)

Checks if a handler is a Stream/FileHandler from this package or not

static get_package_handler()

Returns the FileHandler object that writes to the magento.log file

Return type

FileHandler

static add_request_logging(*handler*)

Adds the specified handler to the requests package logger, allowing for easier debugging of API calls

`magento.utils.get_agents()`

Scrapes a list of user agents. Returns a default list if the scrape fails.

Return type

list

`magento.utils.get_agent(index=0)`

Returns a single user agent string from the specified index of the AGENTS list

Return type

str

`magento.utils.get_package_file_handler()`

The magento.models subpackage

- *The model module*
- *The product module*
- *The category module*
- *The order module*
- *The invoice module*

THE MAGENTO.MODELS SUBPACKAGE

The `magento.models` subpackage contains all of the `Model` API response wrapper classes.

4.1 The `model` module

class `magento.models.model.Model`(*data*, *client*, *endpoint*, *private_keys=True*)

Bases: `ABC`

The abstract base class of all API response wrapper classes

Overview

- A `Model` wraps the response data from an API endpoint
- Several endpoints have subclasses with additional methods to retrieve/update data
- All other endpoints are wrapped using a general `APIResponse`
- The endpoint's corresponding `SearchQuery` can be accessed via `query_endpoint()`

DOCUMENTATION: `str = None`

Link to the Official Magento 2 API documentation for the endpoint wrapped by the `Model`

IDENTIFIER: `str = None`

The API response field that the endpoint's `uid` comes from

__init__(*data*, *client*, *endpoint*, *private_keys=True*)

Initialize a `Model` object from an API response and the endpoint that it came from

...

Tip: The endpoint is used to:

- Generate the `url_for()` any requests made by subclass-specific methods
 - Match the `Model` to its corresponding `SearchQuery` object
 - Determine how to `parse()` new `Model` objects from API responses
-

...

Parameters

- **data** (`dict`) – the JSON from an API response to use as source data
- **client** (`Client`) – an initialized `Client`
- **endpoint** (`str`) – the API endpoint that the `Model` wraps
- **private_keys** (`bool`) – if `True`, sets the keys in the `excluded_keys` as private attributes (prefixed with `__`) instead of fully excluding them

set_attrs(*data*, *private_keys=True*)

Initializes object attributes using the JSON from an API response as the data source

Called at the time of object initialization, but can also be used to update the source data and reinitialize the attributes without creating a new object

Parameters

- **data** (`dict`) – the API response JSON to use as the object source data
- **private_keys** (`bool`) – if set to `True`, will set the `excluded_keys` as private attributes (prefixed with `__`) instead of fully excluding them

Private Keys Clarification

Let's say that "status" is in the `excluded_keys`

- No matter what, the status attribute will not be set on the `Model`
 - If `private_keys==True`, the `__status` attribute will be set (using the status data)
 - If `private_keys==False`, the data from status is completely excluded
-

abstract property excluded_keys: `List[str]`

API response keys that shouldn't be set as object attributes by `set_attrs()`

Returns

list of API response keys that shouldn't be set as attributes

property uid: `Union[str, int]`

Unique item identifier; used in the url of the `data_endpoint()`

data_endpoint(*scope=None*)

Endpoint to use when requesting/updating the item's data

Parameters

scope (`Optional[str]`) – the scope to generate the `url_for()`

Return type

`str`

query_endpoint()

Initializes and returns the `SearchQuery` object corresponding to the `Model`'s endpoint

Returns

a `SearchQuery` or subclass, depending on the endpoint

Return type

`SearchQuery`

parse(*response*)

Uses the instance's corresponding `SearchQuery` to parse an API response

Parameters

response (`dict`) – API response dict to use as source data

Returns

a `Model` with the same endpoint as the calling instance

Return type

`Model`

refresh(*scope=None*)

Updates object attributes in place using current data from the `data_endpoint()`

Hint: `refresh()` can be used to switch the scope of the source data without creating a new object or changing the `Client.scope`

Example

```
# Get product data on 'default' scope
>>> product = client.products.by_sku('sku42')
# Get fresh product data from different scope
>>> product.refresh('all')

Refreshed <Magento Product: sku42> on scope all
```

Parameters

scope (`Optional[str]`) – the scope to send the request on; uses the `Client.scope` if not provided

Return type

`bool`

static unpack_attributes(*attributes*, *key='attribute_code'*)

Unpacks a list of attribute dictionaries into a single dictionary

Example

```
>> custom_attrs = [{'attribute_code': 'attr', 'value': 'val'}, {'attribute_code':
↳ 'will_to_live', 'value': '0'}]
>> print(Model.unpack_attributes(custom_attrs))

{'attr': 'val', 'will_to_live': '0'}
```

Parameters

- **attributes** (`List[dict]`) – a list of custom attribute dictionaries
- **key** (`str`) – the key used in the attribute dictionary (ex. `attribute_code` or `label`)

Returns

a single dictionary of all custom attributes formatted as `{"attr": "val"}`

Return type*dict***static** `pack_attributes(attribute_data, key='attribute_code')`

Packs a dictionary containing attributes into a list of attribute dictionaries

Example

```
>> attribute_data = {'special_price': 12, 'meta_title': 'My Product'}
>> print(Model.pack_attributes(attribute_data))
>> print(Model.pack_attributes(attribute_data, key='label'))

[{'attribute_code': 'special_price', 'value': 12}, {'attribute_code': 'meta_title',
↪ 'value': 'My Product'}]
[{'label': 'special_price', 'value': 12}, {'label': 'meta_title', 'value': 'My_
↪ Product'}]
```

Parameters

- **attribute_data** (*dict*) – a dictionary containing attribute data
- **key** (*str*) – the key to use when packing the attributes (ex. `attribute_code` or `label`)

Returnsa list of dictionaries formatted as `{key : "attr", "value": "value"}`**Return type***List[dict]***static** `encode(string)`URL-encode with `urllib.parse`; used for requests that could contain special characters**Parameters****string** (*str*) – the string to URL-encode**Return type***str***property** `cached: List[str]`Names of properties that are wrapped with `functools.cached_property()`**clear** (**keys*)Deletes the provided keys from the object's `__dict__`

To clear all cached properties:

```
>> self.clear(*self.cached)
```

Parameters**keys** (*str*) – name of the object attribute(s) to delete**get_scope_name** (*scope*)

Returns the appropriate scope name to use for logging messages

Return type*str***class** magento.models.model.**APIResponse**(*data, client, endpoint*)Bases: [Model](#)**IDENTIFIER:** **str** = 'entity_id'The API response field that the endpoint's **uid** comes from**__init__**(*data, client, endpoint*)A generic [Model](#) subclassWraps API responses when there isn't a [Model](#) subclass defined for the endpoint**Parameters**

- **data** (**dict**) – the API response from an API endpoint
- **client** ([Client](#)) – an initialized [Client](#) object
- **endpoint** (**str**) – the endpoint that the API response came from

property **excluded_keys:** **List**[**str**]API response keys that shouldn't be set as object attributes by [set_attrs\(\)](#)**Returns**

list of API response keys that shouldn't be set as attributes

data_endpoint(*scope=None*)

Endpoint to use when requesting/updating the item's data

Parameters**scope** (**Optional**[**str**]) – the scope to generate the [url_for\(\)](#)**Return type****Optional**[**str**]**property** **uid:** **Optional**[**int**]

Unique item identifier

Note: Since the [APIResponse](#) can wrap any endpoint, the response is checked for commonly used id fields (**entity_id** and **id**)

If the endpoint doesn't use those fields, **None** will be returned

4.2 The product module

class magento.models.product.**Product**(*data, client*)Bases: [Model](#)

Wrapper for the products endpoint

STATUS_ENABLED = 1

`STATUS_DISABLED = 2`

`VISIBILITY_NOT_VISIBLE = 1`

`VISIBILITY_CATALOG = 2`

`VISIBILITY_SEARCH = 3`

`VISIBILITY_BOTH = 4`

DOCUMENTATION: `str` = `'https://adobe-commerce.redoc.ly/2.3.7-admin/tag/products/'`

Link to the Official Magento 2 API documentation for the endpoint wrapped by the Model

IDENTIFIER: `str` = `'sku'`

The API response field that the endpoint's `uid` comes from

`__init__(data, client)`

Initialize a Product object using an API response from the products endpoint

Parameters

- `data` (`dict`) – the API response from the products endpoint
- `client` (`Client`) – an initialized `Client` object

property `excluded_keys`

API response keys that shouldn't be set as object attributes by `set_attrs()`

Returns

list of API response keys that shouldn't be set as attributes

`update_stock(qty)`

Updates the stock quantity

Parameters

- `qty` (`int`) – the new stock quantity

Return type

`bool`

`update_status(status)`

Update the product status

Parameters

- `status` (`int`) – either 1 (for `STATUS_ENABLED`) or 2 (for `STATUS_DISABLED`)

Return type

`bool`

`update_price(price)`

Update the product price

Parameters

- `price` (`Union[int, float]`) – the new price

Return type

`bool`

`update_special_price(price)`

Update the product special price

Parameters

- `price` (`Union[float, int]`) – the new special price

Return type*bool***update_name**(*name*, *scope=None*)

Update the product name

Parameters

- **name** (*str*) – the new name to use
- **scope** (*Optional[str]*) – the scope to send the request on; will use the *Client.scope* if not provided

Return type*bool***update_description**(*description*, *scope=None*)

Update the product description

Parameters

- **description** (*str*) – the new HTML description to use
- **scope** (*Optional[str]*) – the scope to send the request on; will use the *Client.scope* if not provided

Return type*bool***update_metadata**(*metadata*, *scope=None*)

Update the product metadata

Parameters

- **metadata** (*dict*) – the new meta_title, meta_keyword and/or meta_description to use
- **scope** (*Optional[str]*) – the scope to send the request on; will use the *Client.scope* if not provided

Return type*bool***update_attributes**(*attribute_data*, *scope=None*)

Update top level product attributes with scoping taken into account

Note: Product attributes can have a Global, Store View or Website scope

Global Attributes

Values are updated on all store views and the admin

Website Attributes

Values are updated on all store views

Store View Attributes

Values are updated on the store view specified in the request scope

A second request will be made to update Store View and Website attributes on the admin, depending on how many *Store views* you have:

- **1 View:** admin values are updated for all attributes, regardless of scope

- **2+ Views:** admin values are updated only for `website_product_attributes`

Parameters

- **attribute_data** (`dict`) – a dictionary of product attributes to update
- **scope** (`Optional[str]`) – the scope to send the request on; will use the `Client.scope` if not provided

Return type`bool`**update_custom_attributes**(*attribute_data*, *scope=None*)

Update custom attributes with scoping taken into account

See `update_attributes()` for details

ImportantThis method only supports updating **custom attributes**

Parameters

- **attribute_data** (`dict`) – a dictionary of custom attributes to update
- **scope** (`Optional[str]`) – the scope to send the request on; will use the `Client.scope` if not provided

Return type`bool`**get_orders()**

Searches for orders that contain the product

If the product is configurable, returns orders containing any of its child products

Returnsorders that contain the product, as an individual or list of `Order` objects**Return type**`Optional[Order | List[Order]]`**get_order_items()**

Searches for order items that contain the product

If the product is configurable, returns order items containing any of its child products

Returnsorder items that contain the product, as an individual or list of `OrderItem` objects**Return type**`Optional[OrderItem | List[OrderItem]]`**get_invoices()**

Searches for invoices that contain the product

If the product is configurable, returns invoices containing any of its child products

Returnsinvoices that contain the product, as an individual or list of `Invoice` objects

Return type*Optional[Invoice | List[Invoice]]***delete()**

Deletes the product

Hint: If you delete a product by accident, the `Product` object's `data` attribute will still contain the raw data, which can be used to recover it.

Alternatively, don't delete it by accident.

Return type*bool***get_children(refresh=False, scope=None)**

Retrieve the child simple products of a configurable product

Parameters

- **refresh** (*bool*) – if True, calls `refresh()` on the child products to retrieve full data
- **scope** (*Optional[str]*) – the scope to refresh the children on (when `refresh=True`)

Return type*List[Product]***property children: List[Product]**

If the Product is a configurable product, returns a list of its child products

property categories: Optional[Category | List[Category]]Categories the product is in, returned as a list of `Category` objects**property media_gallery_entries: List[MediaEntry]**The product's media gallery entries, returned as a list of `MediaEntry` objects**property thumbnail: MediaEntry**The `MediaEntry` corresponding to the product's thumbnail**property thumbnail_link: str**Link of the product's `thumbnail` image**get_media_by_id(entry_id)**Access a `MediaEntry` of the product by id**Parameters**

- **entry_id** (*int*) – the id of the media gallery entry

Return type*MediaEntry***property encoded_sku: str**

URL-encoded SKU, which is used in request endpoints

property option_skus: List[str]

The full SKUs for the product's customizable options, if they exist

Hint: When a product with customizable options is ordered, these SKUs are used by the API when retrieving and searching for [Order](#) and [OrderItem](#) data

property stock: `int`

Current stock quantity

property stock_item: `dict`

Stock data from the StockItem Interface

property stock_item_id: `int`

Item id of the StockItem, used to [update_stock\(\)](#)

property description: `str`

Product description (as HTML)

property special_price: `float`

The current special (sale) price

class `magento.models.product.MediaEntry(product, entry)`

Bases: [Model](#)

Wraps a media gallery entry of a [Product](#)

`MEDIA_TYPES = ['base', 'small', 'thumbnail', 'swatch']`

DOCUMENTATION: `str =`

`'https://adobe-commerce.redoc.ly/2.3.7-admin/tag/productsskumediaentryId'`

Link to the Official Magento 2 API documentation for the endpoint wrapped by the Model

IDENTIFIER: `str = 'id'`

The API response field that the endpoint's `uid` comes from

`__init__(product, entry)`

Initialize a MediaEntry object for a [Product](#)

Parameters

- **product** ([Product](#)) – the [Product](#) that the gallery entry is associated with
- **entry** (`dict`) – the json response data to use as the source data

query_endpoint()

No search endpoint exists for media gallery entries

property excluded_keys: `List[str]`

API response keys that shouldn't be set as object attributes by [set_attrs\(\)](#)

Returns

list of API response keys that shouldn't be set as attributes

property is_enabled

property is_thumbnail

property link

Permalink to the image

disable(*scope=None*)

Disables the MediaEntry on the given scope

Parameters

scope (*Optional[str]*) – the scope to send the request on; will use the `Client.scope` if not provided

Return type

bool

enable(*scope=None*)

Enables the MediaEntry on the given scope

Parameters

scope (*Optional[str]*) – the scope to send the request on; will use the `Client.scope` if not provided

Return type

bool

add_media_type(*media_type, scope=None*)

Add a media type to the MediaEntry on the given scope

Caution: If the media type is already assigned to a different entry, it will be removed

Parameters

- **media_type** (*str*) – one of the `MEDIA_TYPES`
- **scope** (*Optional[str]*) – the scope to send the request on; will use the `Client.scope` if not provided

Return type

bool

remove_media_type(*media_type, scope=None*)

Remove a media type from the MediaEntry on the given scope

Parameters

- **media_type** (*str*) – one of the `MEDIA_TYPES`
- **scope** (*Optional[str]*) – the scope to send the request on; will use the `Client.scope` if not provided

Return type

bool

set_media_types(*types, scope=None*)

Set media types for the MediaEntry on the given scope

Parameters

- **types** (*list*) – a list containing all `MEDIA_TYPES` to assign
- **scope** (*Optional[str]*) – the scope to send the request on; will use the `Client.scope` if not provided

Return type*bool***set_position**(*position*, *scope=None*)

Set the position of the MediaEntry on the given scope

Parameters

- **position** (*int*) – the position to change to
- **scope** (*Optional[str]*) – the scope to send the request on; will use the `Client.scope` if not provided

Return type*bool***set_alt_text**(*text*, *scope=None*)

Set the alt text (label) of the MediaEntry on the given scope

Parameters

- **text** (*str*) – the alt text to use
- **scope** (*Optional[str]*) – the scope to send the request on; will use the `Client.scope` if not provided

Return type*bool***update**(*scope=None*)

Uses the data dict to update the media entry

Note: Some updates alter the data of other entries; if the update is successful, the associated `Product` will be refreshed on the same scope to keep the data consistent

Tip: If there's only 1 store view, the admin will also be updated

Parameters

scope (*Optional[str]*) – the scope to send the request on; will use the `Client.scope` if not provided

Return type*bool***class** magento.models.product.**ProductAttribute**(*data*, *client*)Bases: `Model`

Wrapper for the products/attributes endpoint

DOCUMENTATION: *str* =

'https://adobe-commerce.redoc.ly/2.3.7-admin/tag/productsattributes/'

Link to the Official Magento 2 API documentation for the endpoint wrapped by the Model

IDENTIFIER: *str* = 'attribute_code'The API response field that the endpoint's `uid` comes from

__init__(*data*, *client*)

Initialize a ProductAttribute object using an API response from the products/attributes endpoint

Parameters

- **data** (*dict*) – the API response from the products/attributes endpoint
- **client** (*Client*) – an initialized *Client* object

property excluded_keys: *List[str]*

API response keys that shouldn't be set as object attributes by *set_attrs()*

Returns

list of API response keys that shouldn't be set as attributes

property options

4.3 The category module

class magento.models.category.*Category*(*data*, *client*)

Bases: *Model*

Wrapper for the categories endpoint

DOCUMENTATION: *str* = '<https://adobe-commerce.redoc.ly/2.3.7-admin/tag/categories>'

Link to the Official Magento 2 API documentation for the endpoint wrapped by the Model

IDENTIFIER: *str* = 'id'

The API response field that the endpoint's *uid* comes from

__init__(*data*, *client*)

Initialize a Category object using an API response from the categories endpoint

Parameters

data (*dict*) – raw API response

property excluded_keys

API response keys that shouldn't be set as object attributes by *set_attrs()*

Returns

list of API response keys that shouldn't be set as attributes

property custom_attributes: *Dict[str, str]*

property subcategories: *List[Category]*

The child categories, returned as a list of *Category* objects

Note: Only the direct child categories are returned. For a list of all descendants, use *all_subcategories*

property subcategory_ids: *List[int]*

The *category_ids* of the *subcategories*

property `subcategory_names: List[str]`

The names of the category's `subcategories`

property `all_subcategories: Optional[List[Category]]`

Recursively retrieves all descendants of the category

property `all_subcategory_ids: List[int]`

The `category_ids` of `all_subcategories`

property `products: List[Product]`

The `Product` s in the category

Alias for `get_products()`

property `product_ids: List[int]`

The `product_ids` of the category's `products`

property `skus: List[str]`

The skus of the category's `products`

property `all_products: List[Product]`

The `Product` s in the category and in `all_subcategories`

Alias for `get_products()` with `search_subcategories=True`

property `all_product_ids: Set[int]`

The `product_ids` of the products in the category and in `all_subcategories`

property `all_skus: Set[str]`

The skus of the products in the category and in `all_subcategories`

get_products(*search_subcategories=False*)

Retrieves the category's products

Parameters

search_subcategories (*bool*) – if `True`, also retrieves products from `all_subcategories`

Return type

Optional[Product | List[Product]]

get_orders(*search_subcategories=False*)

Retrieve any `Order` that contains one of the category's `products`

Parameters

search_subcategories (*bool*) – if `True`, also searches for orders from `all_subcategories`

Return type

Optional[Order | List[Order]]

get_order_items(*search_subcategories=False*)

Retrieve any `OrderItem` that contains one of the category's `products`

Parameters

search_subcategories (*bool*) – if `True`, also searches for order items from `all_subcategories`

Return type

Optional[OrderItem | List[OrderItem]]

get_invoices(*search_subcategories=False*)

Retrieve any [Invoice](#) that contains one of the category's [products](#)

Parameters

search_subcategories (*bool*) – if `True`, also searches for invoices from [all_subcategories](#)

Return type

Optional[[Invoice](#) | *List*[[Invoice](#)]]

4.4 The order module

class `magento.models.order.Order`(*data, client*)

Bases: [Model](#)

Wrapper for the orders endpoint

DOCUMENTATION: `str = 'https://adobe-commerce.redoc.ly/2.3.7-admin/tag/orders'`

Link to the Official Magento 2 API documentation for the endpoint wrapped by the Model

IDENTIFIER: `str = 'entity_id'`

The API response field that the endpoint's `uid` comes from

__init__(*data, client*)

Initialize an Order object using an API response from the orders endpoint

Parameters

- **data** (*dict*) – API response from the orders endpoint
- **client** ([Client](#)) – an initialized [Client](#) object

property `excluded_keys`: *List*[`str`]

API response keys that shouldn't be set as object attributes by `set_attrs()`

Returns

list of API response keys that shouldn't be set as attributes

property `id`: `int`

Alias for `entity_id`

property `number`: `str`

Alias for `increment_id`

property `items`: *List*[[OrderItem](#)]

The ordered items, returned as a list of [OrderItem](#) objects

Note: When a configurable [Product](#) is ordered, the API returns data for both the configurable and simple product

- The [OrderItem](#) is initialized using the configurable product data, since the simple product data is incomplete
- The `product` and `product_id` will still match the simple product though

If both entries are needed, the unparsed response is in the data dict

property item_ids: `List[int]`

The `item_ids` of the ordered `items`

property products: `List[Product]`

The ordered `items`, returned as their corresponding `Product` objects

get_invoice()

Retrieve the `Invoice` of the Order

Return type

`Invoice`

property shipping_address: `dict`

Shipping details, from `extension_attributes.shipping_assignments`

property bill_to: `dict`

Condensed version of the `billing_address` dict

property bill_to_address: `str`

The billing address, parsed into a single string

property ship_to: `dict`

Condensed version of the `shipping_address` dict

property ship_to_address: `str`

The shipping address, parsed into a single string

property payment: `dict`

Payment data

property net_tax: `float`

Final tax amount, with refunds and cancellations taken into account

property net_total: `float`

Final Order value, with refunds and cancellations taken into account

property item_refunds: `float`

Total amount refunded for items; excludes shipping and adjustment refunds/fees

property total_qty_invoiced: `int`

Total number of units invoiced

property total_qty_shipped: `int`

Total number of units shipped

property total_qty_refunded: `int`

Total number of units refunded

property total_qty_canceled: `int`

Total number of units canceled

property total_qty_outstanding: `int`

Total number of units that haven't been shipped/fulfilled yet

property net_qty_ordered: `int`

Total number of units ordered, after accounting for refunds and cancellations

class magento.models.order.**OrderItem**(item, client=None, order=None)

Bases: [Model](#)

Wrapper for the order/items endpoint

DOCUMENTATION: **str** = 'https://adobe-commerce.redoc.ly/2.3.7-admin/tag/ordersitems'

Link to the Official Magento 2 API documentation for the endpoint wrapped by the Model

IDENTIFIER: **str** = 'item_id'

The API response field that the endpoint's **uid** comes from

__init__(item, client=None, order=None)

Initialize an OrderItem using an API response from the orders/items endpoint

Note: Initialization requires either a [Client](#) or [Order](#) object

Parameters

- **item** (**dict**) – API response from the orders/items endpoint
- **order** (Optional[[Order](#)]) – the [Order](#) that this is an item of
- **client** (Optional[[Client](#)]) – the [Client](#) to use (if not initializing with an Order)

Raises

ValueError – if both the order and client aren't provided

property excluded_keys: **List**[**str**]

API response keys that shouldn't be set as object attributes by **set_attrs()**

Returns

list of API response keys that shouldn't be set as attributes

property order: [Order](#)

The corresponding [Order](#)

property product: [Product](#)

The item's corresponding [Product](#)

Note: If the ordered item:

- Is a configurable product - the child simple product is returned
 - Has custom options - the base product is returned
-

property product_id: **int**

Id of the corresponding simple [Product](#)

property extension_attributes: **dict**

property qty_outstanding: **int**

Number of units that haven't been shipped/fulfilled yet

property net_qty_ordered: **int**

Number of units ordered, after accounting for refunds and cancellations

property net_tax: `float`

Tax amount after accounting for refunds and cancellations

property net_total: `float`

Row total (incl. tax) after accounting for refunds and cancellations

property net_refund: `float`

Refund amount after accounting for tax and discount refunds

property total_canceled: `float`

Cancelled amount; note that partial cancellation is not possible

4.5 The invoice module

class `magento.models.invoice.Invoice(data, client)`

Bases: `Model`

Wrapper for the invoices endpoint

DOCUMENTATION: `str` = `'https://adobe-commerce.redoc.ly/2.3.7-admin/tag/invoices'`

Link to the Official Magento 2 API documentation for the endpoint wrapped by the Model

IDENTIFIER: `str` = `'entity_id'`

The API response field that the endpoint's `uid` comes from

__init__(`data, client`)

Initialize an Invoice object using an API response from the invoices endpoint

Parameters

- **data** (`dict`) – API response from the invoices endpoint
- **client** (`Client`) – an initialized `Client` object

property excluded_keys: `List[str]`

API response keys that shouldn't be set as object attributes by `set_attrs()`

Returns

list of API response keys that shouldn't be set as attributes

property id: `int`

Alias for `entity_id`

property number: `str`

Alias for `increment_id`

property order: `Order`

The corresponding `Order`

property items: `List[InvoiceItem]`

The invoiced items, returned as a list of `InvoiceItem` objects

class `magento.models.invoice.InvoiceItem(item, invoice)`

Bases: `Model`

Wraps an item entry of an `Invoice`

DOCUMENTATION: `str = 'https://adobe-commerce.redoc.ly/2.3.7-admin/tag/invoicesid'`

Link to the Official Magento 2 API documentation for the endpoint wrapped by the Model

IDENTIFIER: `str = 'entity_id'`

The API response field that the endpoint's `uid` comes from

`__init__(item, invoice)`

Initialize an InvoiceItem of an Invoice

Parameters

- `item (dict)` – API response to use as source data
- `invoice (Invoice)` – the Invoice that this is an item of

`data_endpoint(scope=None)`

No data endpoint exists for invoice items

`query_endpoint()`

No search endpoint exists for invoice items

property excluded_keys: `List[str]`

API response keys that shouldn't be set as object attributes by `set_attrs()`

Returns

list of API response keys that shouldn't be set as attributes

property order: `Order`

The Order this item is from

property order_item: `OrderItem`

The item's corresponding OrderItem

property product: `Product`

The item's corresponding simple Product

property product_id: `int`

Id of the corresponding simple Product

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