
wikirate4py

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INSTALLATION

The easiest way to install the latest version from PyPI is by using pip:

```
pip install wikirate4py
```

You can also use Git to clone the repository from GitHub to install the latest development version:

```
git clone https://github.com/wikirate/wikirate4py.git
cd wikirate4py
pip install .
```

Alternatively, install directly from the GitHub repository:

```
pip install git+https://github.com/wikirate/wikirate4py.git
```


GETTING STARTED

2.1 Introduction

If you are new using wikirate4py, this is the place to begin. The main goal of this tutorial is to get you started with wikirate4py. We will not go into too much detail here but we will present some basics.

2.2 Hello wikirate4py

```
api = wikirate4py.API('you_api_token')

# requesting to get details about a specific WikiRate company based on name
# wikirate4py models the response into a Company object
company = api.get_company('Puma')

# print company's details
pprint(company.json())

# get the raw json response
pprint(company.raw_json())

# print company's aliases
for alias in company.aliases:
    print(alias)
```

This example will retrieve details of the given WikiRate company. wikirate4py models the response into a *Company* object and the above script print's company's details in json and then prints the raw json response. Finally, prints all company's aliases.

2.3 API

The API class provides access to almost the entire WikiRate RESTful API methods. Each method can accept various parameters and return responses. For more information about these methods please refer to [API Reference](#).

2.4 Models

When you invoke an API method most of the times, it returns back a wikirate4py model class instance. This contains the data from WikiRate which we then use inside the application. wikirate4py simplifies WikiRate's response but you can access the raw json by calling the raw_json method. For example the following code returns to us a Metric model:

```
# Get the Metric object for Address metric with metric designer Clean Clothes Campaign
metric = api.get_metric(metric_name='Address', metric_designer='Clean Clothes Campaign')
```

Models contain the data simplified and some helper methods which we can then use:

```
print(metric.id)
print(metric.name)
print(metric.designer)
print(metric.question)
print(metric.value_type)
pprint(metric.json())
pprint(metric.raw_json())

# prints all available parameters of Metric model
print(metric.get_parameters())
```


CURSOR TUTORIAL

This tutorial describes details on pagination with Cursor objects

3.1 Introduction

We use pagination a lot in WikiRate API development. Iterating through companies, metrics, answers, relationship answers, sources, topics, projects etc. In order to perform pagination, we must supply an offset and a limit parameters with each of our requests. This requires a lot of boiler plate code just to manage the pagination loop. To facilitate iteration and require less code, wikirate4py provides the *Cursor* object.

3.2 How to use

Cursor handles all the iteration/pagination work for us behind the scenes, thus our code can focus entirely on processing the results.

```
api = wikirate4py.API('you_api_token')

# create Cursor object that iterates the results (results per page = 100, default value,
# => 20)
cursor = wikirate4py.Cursor(api.get_metrics)

while cursor.has_next():
    # next method returns a list of Metric objects
    results = cursor.next()
    # do something more to process your results
```

3.3 Passing parameters

What if you need to pass parameters to an API method that supports iteration?

```
api.get_answers(metric_name='Company Report Available',
               metric_designer='Core',
               country='United Kingdom',
               year=2019)
```

Since we pass Cursor the callable, we can not pass the parameters directly into the method. Instead we pass the parameters into the Cursor constructor method as demonstrated below:

```
api = wikirate4py.API('you_api_token')

# create Cursor object that iterates the results (results per page = 100, default value,
↪ = 20)
cursor = wikirate4py.Cursor(api.get_answers,
                             metric_name='Company Report Available',
                             metric_designer='Core',
                             country='United Kingdom',
                             year=2019)

while cursor.has_next():
    # next method returns a list of Metric objects
    results = cursor.next()
    # do something more to process your results
```

3.4 Limits

By default, WikiRate allows 20 items per page, however users can request from WikiRate's API to return more items in one go. If you would like to request more items in one go using the Cursor then you need to define an additional parameter called `per_page`.

```
cursor = wikirate4py.Cursor(api.get_metrics, per_page=50)

while cursor.has_next():
    # next method returns a list of Metric objects
    results = cursor.next()
    # do something more to process your results
```

Note that, wikirate4py allows max 100 items per page. If you define `per_page>100` then the Cursor by default will set `per_page=100`.

WIKIRATE4PY.API — WIKIRATE API WRAPPER

```
class wikirate4py.API(oauth_token, wikirate_api_url='https://wikirate.org/', auth=())
```

4.1 Company Methods

API.get_company(*identifier*)

Returns a company based on the given identifier (name or number)

Parameters *identifier* – two different identifiers are allowed for WikiRate entities, numerical identifiers or name identifiers

Returns

Return type Company

API.get_companies(*, *offset*, *limit*)

Returns a list of WikiRate Companies

Parameters

- **offset** – default value 0, the (zero-based) offset of the first item in the collection to return
- **limit** – default value 20, the maximum number of entries to return. If the value exceeds the maximum, then the maximum value will be used.

Returns

Return type List[CompanyItem]

API.add_company(*name*, *headquarters*, *, *oar_id*, *open_corporates*)

Creates and Returns a company given the company name and headquarters

Parameters

- **name** – company name
- **headquarters** – name of the region the headquarters of the company is located
- **wikipedia** – company's wikipedia page url
- **oar_id** – company's identifier on <https://openapparel.org>
- **open_corporates** – company's identifier on <https://opencorporates.com/>

Returns

Return type Company

4.2 Metric Methods

API.**get_metric**(*metric_name*, *metric_designer*)

Returns a WikiRate Metric based on the given metric name and metric designer.

Parameters

- **identifier** – two different identifiers are allowed for WikiRate entities, numerical identifiers or name identifiers
- **metric_name** – name of metric
- **metric_designer** – name of metric designer

Returns

Return type Metric

API.**get_metrics**(*, *offset*, *limit*)

Returns a list of WikiRate Metrics

Parameters

- **offset** – default value 0, the (zero-based) offset of the first item in the collection to return
- **limit** – default value 20, the maximum number of entries to return. If the value exceeds the maximum, then the maximum value will be used.

Returns

Return type List[MetricItem]

4.3 Answer Methods

API.**get_answer**(*id*)

Returns a metric answer given its numeric identifier.

Parameters **id** – numeric identifier of the metric answer

Returns

Return type Company

API.**get_answers**(*metric_name*, *metric_designer*, ***kwargs*)

get_answers(*metric_name*, *metric_designer*, *, *company_name*, *company_id*, *offset*, *limit*, *year*, *status*, *company_group*, *company_group*, *updated*, *updater*, *outliers*, *source*, *verification*, *project*, *bookmark*)

Returns a list of WikiRate Answers

Parameters

- **metric_name** – name of relationship metric
- **metric_designer** – name of relationship metric designer
- **company_name** – restrict the answers based on the given company
- **company_id** – restrict the answers based on the given company
- **offset** – default value 0, the (zero-based) offset of the first item in the collection to return

- **limit** – default value 20, the maximum number of entries to return. If the value exceeds the maximum, then the maximum value will be used.
- **year** – answer year
- **status** – *all*, *exists* (researched), *known*, *unknown*, or *none* (not researched)
- **company_group** – company group name, restricts to answers with companies belonging in the specified company group
- **country** – country name, restricts to answers with companies located in the specified country
- **value** – answer value to match
- **value_from** – restricts to answers with value greater than equal the specified value
- **value_to** – restricts to answers with value less than equal the specified value
- **updated** – *today*, *week* (this week), *month* (this month)
- **updater** –
 - *wikirate_team*, restricts to answers updated by the WikiRate team
 - *current_user*, restricts to answers updated by you
- **outliers** – get either *only* answers considered as outliers or get answers after *exclude* the outliers
- **source** – source name, restricts to answers citing the specified source
- **verification** –

restricts to answers mapped to the defined verification level:

 - *steward_added*: answers added by account with “steward” status
 - *flagged*: answers which have been flagged by the Researcher adding the answer to request verification
 - *community_added*: answers added by community members (e.g. students / volunteers)
 - *community_verified*: answers verified by community members (e.g. students / volunteers)
 - *steward_verified*: answers verified by account with “steward” status
 - *current_user*: answers verified by you
 - *wikirate_team*: answers verified by WikiRate team
- **project** – project name, restrict to answers connected to the specified WikiRate project
- **bookmark** –
 - *bookmark*, restrict to answers you have bookmarked
 - *nobookmark*, restrict to answers you have not bookmarked
- **published** –
 - *true*, returns only published answers (default mode)
 - *false*, returns only unpublished answers
 - *all*, returns all published and unpublished answers

Returns

Return type List[AnswerItem]

API.add_research_metric_answer(*metric_designer, metric_name, company, year, value, source, *, comment*)
Creates and Returns a company given the company name and headquarters

Parameters

- **metric_name** – name of metric
- **metric_designer** – name of metric designer
- **company** – company the answer is assigned to
- **year** – reporting year
- **value** – value of the answer
- **source** – source name
- **comment** – comment on the imported metric answer

Returns

Return type Answer

API.update_research_metric_answer(*metric_designer, metric_name, company, year, *, value, source, comment*)

Updates and Returns an existing metric answer

Parameters

- **metric_name** – name of metric
- **metric_designer** – name of metric designer
- **company** – company the answer is assigned to
- **year** – reporting year
- **value** – new value
- **source** – new source name
- **comment** – new comment on the metric answer

Returns

Return type Answer

4.4 Relationship Answer Methods

API.get_relationship_answer(*id*)

Returns a relationship metric answer given its numeric identifier.

Parameters **id** – numeric identifier of the relationship metric answer

Returns

Return type RelationshipAnswer

API.get_relationship_answers(*metric_name, metric_designer, *, offset, limit, year, status, company_group, country, value, value_from, value_to, updated, updater, outliers, source, verification, project, bookmark*)

Returns a list of WikiRate Relationship Answers

Parameters

- **metric_name** – name of relationship metric
- **metric_designer** – name of relationship metric designer
- **offset** – default value 0, the (zero-based) offset of the first item in the collection to return
- **limit** – default value 20, the maximum number of entries to return. If the value exceeds the maximum, then the maximum value will be used.
- **year** – answer year
- **status** – *all*, *exists* (researched), *known*, *unknown*, or *none* (not researched)
- **company_group** – company group name, restricts to relationship answers with subject companies belonging in the specified company group
- **country** – country name, restricts to relationship answers with subject companies located in the specified country
- **value** – answer value to match
- **value_from** – restricts to relationship answers with value greater than equal the specified value
- **value_to** – restricts to relationship answers with value less than equal the specified value
- **updated** – *today*, *week* (this week), *month* (this month)
- **updater** –
 - *wikirate_team*, restricts to relationship answers updated by the WikiRate team
 - *current_user*, restricts to relationship answers updated by you
- **outliers** – get either *only* relationship answers considered as outliers or get answers after *exclude* the outliers
- **source** – source name, restricts to answers citing the specified source
- **verification** –

restricts to relationship answers mapped to the defined verification level:

 - *steward_added*: relationship answers added by account with “steward” status
 - *flagged*: relationship answers which have been flagged by the Researcher adding the answer to request verification
 - *community_added*: relationship answers added by community members (e.g. students / volunteers)
 - *community_verified*: relationship answers verified by community members (e.g. students / volunteers)
 - *steward_verified*: relationship answers verified by account with “steward” status
 - *current_user*: relationship answers verified by you
 - *wikirate_team*: relationship answers verified by WikiRate team
- **project** project name, restrict to relationship answers connected to the specified WikiRate project
- **bookmark**
 - *bookmark*, restrict to relationship answers you have bookmarked
 - *nobookmark*, restrict to relationship answers you have not bookmarked

published - *true*, returns only published answers (default mode) - *false*, returns only unpublished answers - *all*, returns all published and unpublished answers

returns

rtype List[RelationshipAnswerItem]

API.**get_relationship_answers_by_metric_id**(*metric_id*, *, *offset*, *limit*, *year*, *status*, *company_group*, *country*, *value*, *value_from*, *value_to*, *updated*, *updater*, *outliers*, *source*, *verification*, *project*, *bookmark*)

Returns a list of WikiRate Relationship Answers

Parameters

- **id** – numeric identifier of the relationship metric
- **offset** – default value 0, the (zero-based) offset of the first item in the collection to return
- **limit** – default value 20, the maximum number of entries to return. If the value exceeds the maximum, then the maximum value will be used.
- **year** – answer year
- **status** – *all*, *exists* (researched), *known*, *unknown*, or *none* (not researched)
- **company_group** – company group name, restricts to relationship answers with subject companies belonging in the specified company group
- **country** – country name, restricts to relationship answers with subject companies located in the specified country
- **value** – answer value to match
- **value_from** – restricts to relationship answers with value greater than equal the specified value
- **value_to** – restricts to relationship answers with value less than equal the specified value
- **updated** – *today*, *week* (this week), *month* (this month)
- **updater** –
 - *wikirate_team*, restricts to relationship answers updated by the WikiRate team
 - *current_user*, restricts to relationship answers updated by you
- **outliers** – get either *only* relationship answers considered as outliers or get answers after *exclude* the outliers
- **source** – source name, restricts to answers citing the specified source
- **verification** – restricts to relationship answers mapped to the defined verification level:
 - *steward_added*: relationship answers added by account with “steward” status
 - *flagged*: relationship answers which have been flagged by the Researcher adding the answer to request verification
 - *community_added*: relationship answers added by community members (e.g. students / volunteers)
 - *community_verified*: relationship answers verified by community members (e.g. students / volunteers)
 - *steward_verified*: relationship answers verified by account with “steward” status
 - *current_user*: relationship answers verified by you

– *wikirate_team*: relationship answers verified by WikiRate team

project project name, restrict to relationship answers connected to the specified WikiRate project

bookmark

- *bookmark*, restrict to relationship answers you have bookmarked
- *nobookmark*, restrict to relationship answers you have not bookmarked

published - *true*, returns only published answers (default mode) - *false*, returns only unpublished answers - *all*, returns all published and unpublished answers

returns

rtype List[RelationshipAnswerItem]

API.add_relationship_metric_answer(*metric_designer, metric_name, company, year, value, source, *, comment*)

Adds and Returns a relationship metric answer

Parameters

- **metric_name** – name of metric
- **metric_designer** – name of metric designer
- **subject_company** – subject company name of the updated answer
- **object_company** – object company name of the updated answer
- **year** – reporting year
- **value** – value of the relationship metric answer
- **source** – source name
- **comment** – comment on the imported metric answer

Returns

Return type RelationshipAnswer

API.update_relationship_metric_answer(*metric_designer, metric_name, company, year, value, source*)

Updates and Returns an existing relationship metric answer

Parameters

- **metric_name** – name of metric
- **metric_designer** – name of metric designer
- **subject_company** – subject company name of the updated answer
- **object_company** – object company name of the updated answer
- **year** – reporting year
- **value** – new value
- **source** – new source name
- **comment** – new comment on the metric answer

Returns

Return type RelationshipAnswer

4.5 Source methods

API.**get_source**(*identifier*)

Returns a WikiRate Source based on the given identifier (name or number)

Parameters **identifier** – two different identifiers are allowed for WikiRate entities, numerical identifiers or name identifiers

Returns

Return type Source

API.**get_sources**(*, *offset*, *limit*)

Returns a list of WikiRate Sources

Parameters

- **offset** – default value 0, the (zero-based) offset of the first item in the collection to return
- **limit** – default value 20, the maximum number of entries to return. If the value exceeds the maximum, then the maximum value will be used.
- **company_name** – filter sources where the company name matches fully or partially the given string
- **year** – filter sources based on given year
- **wikirate_title** – filter sources where their title match fully or partially the given string
- **report_type** – filter sources based on the report type
- **wikirate_topic** – filter sources based on given topic
- **wikirate_link** – filter sources where their url matches fully or partially the given string

Returns

Return type List[Source]

API.**add_source**(*link*, *title*, *company*, *report_type*, *year*)

Updates and Returns an existing relationship metric answer

Parameters

- **link** – url of the original source
- **file** – file path to the file you want to upload as a source
- **title** – give a title on the source
- **company** – comment on the imported metric answer
- **report_type** – source name
- **year** – reporting year
- **file** – filepath on the file you want to upload

Returns

Return type Source

API.**update_source**(*name*, *title*, *company*, *report_type*, *year*)

Updates and Returns an existing source

Parameters

- **name** – source name

- **title** – updated source title
- **company** – updated reporting company
- **report_type** – updated report type
- **year** – updated reporting year

Returns**Return type** Source

4.6 Search methods

API.`search_by_name(entity, name, *, offset, limit)`

Searches for a Company or Metric or Topic or Company Group or Research Group or Project by a given name. If offset and limit are not defined it returns the first 20 search results.

Parameters

- **entity** –
allowed entities:
 - Company,
 - Metric,
 - Topic,
 - CompanyGroup,
 - ResearchGroup,
 - Project
- **name** – search term
- **offset** – default value 0, the (zero-based) offset of the first item in the collection to return
- **limit** – default value 20, the maximum number of entries to return. If the value exceeds the maximum, then the maximum value will be used.

Returns

- – A List of CompanyItem, or
- – A List of MetricItem, or
- – A List of TopicItem, or
- – A List of CompanyGroupItem, or
- – A List of ResearchGroupItem, or
- – A List of ProjectItem

API.`search_source_by_url(url, *, offset, limit)`

Searches for a WikiRare Source based on a given url. If offset and limit are not defined it returns the first 20 search results.

Parameters

- **url** – as a search term
- **offset** – default value 0, the (zero-based) offset of the first item in the collection to return

- **limit** – default value 20, the maximum number of entries to return. If the value exceeds the maximum, then the maximum value will be used.

Returns

Return type List[Source]

4.7 Topic Methods

API.get_topic(*identifier*)

Returns a WikiRate Topic based on the given identifier (name or number)

Parameters identifier – two different identifiers are allowed for WikiRate entities, numerical identifiers or name identifiers

Returns

Return type Topic

API.get_topics(*, *offset*, *limit*)

Returns a list of WikiRate Topics

Parameters

- **offset** – default value 0, the (zero-based) offset of the first item in the collection to return
- **limit** – default value 20, the maximum number of entries to return. If the value exceeds the maximum, then the maximum value will be used.

Returns

Return type List[TopicItem]

4.8 Research Group Methods

API.get_research_group(*identifier*)

Returns a WikiRate Research Group based on the given identifier (name or number)

Parameters identifier – two different identifiers are allowed for WikiRate entities, numerical identifiers or name identifiers

Returns

Return type ResearchGroup

API.get_research_groups(*, *offset*, *limit*)

Returns a list of WikiRate Research Groups

Parameters

- **offset** – default value 0, the (zero-based) offset of the first item in the collection to return
- **limit** – default value 20, the maximum number of entries to return. If the value exceeds the maximum, then the maximum value will be used.

Returns

Return type List[ResearchGroupItem]

4.9 Company Group Methods

API.**get_company_group**(*identifier*)

Returns a WikiRate Company Group based on the given identifier (name or number)

Parameters **identifier** – two different identifiers are allowed for WikiRate entities, numerical identifiers or name identifiers

Returns

Return type CompanyGroup

API.**get_company_groups**(*, *offset*, *limit*)

Returns a list of WikiRate Company Groups

Parameters

- **offset** – default value 0, the (zero-based) offset of the first item in the collection to return
- **limit** – default value 20, the maximum number of entries to return. If the value exceeds the maximum, then the maximum value will be used.

Returns

Return type List[CompanyGroupItem]

4.10 Project Methods

API.**get_project**(*identifier*)

Returns a WikiRate Project based on the given identifier (name or number)

Parameters **identifier** – two different identifiers are allowed for WikiRate entities, numerical identifiers or name identifiers

Returns

Return type Project

API.**get_projects**(*, *offset*, *limit*)

Returns a list of WikiRate Projects

Parameters

- **offset** – default value 0, the (zero-based) offset of the first item in the collection to return
- **limit** – default value 20, the maximum number of entries to return. If the value exceeds the maximum, then the maximum value will be used.

Returns

Return type List[ProjectItem]

4.11 Region Methods

API.**get_region**(*identifier*)

get_project(*identifier*) Returns a WikiRate Region based on the given identifier (name or number)

Parameters **identifier** – two different identifiers are allowed for WikiRate entities, numerical identifiers or name identifiers

Returns

Return type Project

API.**get_regions**(*, *offset*, *limit*)

Returns the list of all geographic regions we use in WikiRate platform

Parameters

- **offset** – default value 0, the (zero-based) offset of the first item in the collection to return
- **limit** – default value 20, the maximum number of entries to return. If the value exceeds the maximum, then the maximum value will be used.

Returns

Return type List[Region]

4.12 Delete Methods

API.**delete_wikirate_entity**(*id*)

Deletes a WikiRate entity based on the given numeric identifier

CODE SNIPPETS

5.1 Introduction

Here, you can find some code snippets to help you use wikirate4py successfully. Contributions enhancing this section are more than welcome!

5.2 Get Verified Metric Answers

```
# returns all answers of Company Report Available metric that were added by a steward
answers = api.get_answers(metric_name='Company Report Available',
                           metric_designer='Core',
                           verification='steward_added',
                           year=2019)
```

5.3 Get Relationship Metric Answers

```
# returns all supplier of relationships where the suppliers is located in the United
↳ Kingdom
answers = self.api.get_relationship_answers(metric_name='Supplier of',
                                             metric_designer='Commons',
                                             country='United Kingdom')
```

5.4 Add Company

```
company = self.api.add_company(name='A Company',
                                headquarters='United Kingdom',
                                oar_id='OAR_ID_123'
                                )
```

5.5 Delete Company

```
#delete a company given it's numerical identifier  
self.api.delete_company(123)
```

5.6 Add Source

```
source = self.api.add_source(url='https://en.wikipedia.org/wiki/Target_Corporation',  
                             title='wikipedia page of Target Corporation 2021',  
                             company='Target',  
                             comment='07/07/2021 This is a comment',  
                             year=2020)
```

5.7 Update Source

```
source = self.api.update_source(name='Source-000106092',  
                                year=2021)
```

5.8 Add Researched Metric Answer

```
answer = self.api.add_research_metric_answer(metric_name='Company Report Available',  
                                              metric_designer='Core',  
                                              value='No',  
                                              year=2021,  
                                              source='Source_000104408s',  
                                              company='BORA 2 LTD',  
                                              comment='This is a test import of a metric_↵  
↵answer')
```

5.9 Update Researched Metric Answer

```
answer = self.api.update_research_metric_answer(metric_name='Company Report Available',  
                                                metric_designer='Core',  
                                                year=2021,  
                                                company='BORA 2 LTD',  
                                                source='Source_000104408')
```


5.10 Add Relationship Metric Answer

```
relationship = self.api.add_relationship_metric_answer(metric_name='Supplied by',
                                                    metric_designer='Commons',
                                                    year=2021,
                                                    value='Tier 1 Supplier',
                                                    source='Source-000106091',
                                                    subject_company=7217,
                                                    object_company=7457810)
```

5.11 Update Relationship Metric Answer

```
relationship = self.api.update_relationship_metric_answer(metric_name='Supplied by',
                                                         metric_designer='Commons',
                                                         year=2021,
                                                         value='Tier 2 Supplier',
                                                         subject_company=7217,
                                                         object_company=7457810,
                                                         comment='This a relationship',
                                                         answer')
```


CONTRIBUTING

Contributions are more welcome, and they are greatly appreciated! You can contribute in several different ways:

6.1 Report Bugs

Report bugs at <https://github.com/wikirate/wikirate4py/issues>.

If you are reporting a bug, please include:

- Details about your setup that can be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

6.2 Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with “bug” is open to be implemented by the WikiRate team but also to the community.

6.3 Implement Features

Look through the GitHub issues for features. Anything tagged with “feature” is open to be implemented by the WikiRate team but also to the community.

6.4 Write Documentation

wikirate4py could always use more documentation, whether is part of official wikirate4py docs, in docstrings, or even on the web in blog posts or articles.

6.5 Submit Feedback

Your feedback is more than welcome and the best way to send feedback is to file an issue at <https://github.com/wikirate/wikirate4py/issues>.

If you would like to propose a feature:

- please explain in details how it would work and
- keep the scope as narrow as possible

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