
Tastypie QuerySet Client Documentation

Release 0.7.2

Tatsuo Ikeda

Sep 27, 2017

Contents

1	Usage	3
1.1	Schema	3
1.2	Get	3
1.3	Count	3
1.4	Exists	4
1.5	Filter	4
1.6	Order By	4
1.7	Latest	4
1.8	Relation	4
1.8.1	ManyToMany	5
1.9	Save	5
1.9.1	Create	5
1.9.2	Get OR Create	6
1.9.3	Field	6
1.10	Delete	6
1.11	Pagination	6
2	Client	9
3	Model	11
4	Manager	13
5	History	15
5.1	0.7.2 (2013-02-17)	15
5.2	0.7.1rc1 (2012-12-31)	15
5.3	0.6.4 (2012-08-14)	15
5.4	0.6.3 (2012-07-15)	15
5.5	0.6.2 (2012-07-15)	15
5.6	0.5.2 (2012-07-10)	16
6	Indices and tables	17

Note:

Requirements:: Tastypie: [Over the 0.9.12-alpha](#)

Contents:

CHAPTER 1

Usage

Client for Tastypie. Provide operation similar to the Django Model API.

Schema

```
# base schema
client = Client("http://api.server.com/your/v1/")
client.schema()

# model schema
client.your.schema()
client.message.schema()
```

Get

```
>>> client = Client("http://api.server.com/your/v1/")
>>> client.your.objects.get(name="your")
<your: {u"id": u"1", u"name": u"your", u"status": u"any"}>
```

Count

```
>>> client = Client("http://api.server.com/your/v1/")
>>> client.your.objects.count()
100
```

Exists

```
>>> client = Client("http://api.server.com/your/v1/")
>>> client.your.objects.exists()
True
>>> queryset = client.your.objects.all()
>>> queryset.exists()
True
```

Filter

```
>>> client = Client("http://api.server.com/your/v1/")
>>> client.your.objects.filter(name="your")
<QuerySet <class 'Response'> (3/3)>
```

Order By

```
>>> client = Client("http://api.server.com/your/v1/")
>>> order = []
>>> for p in client.your.objects.order_by("-id"):
. . .     order.append(p)
. . .     print p.your
. . .
<your: {u"id": u"3", u"name": u"name3"}>
<your: {u"id": u"2", u"name": u"name2"}>
<your: {u"id": u"1", u"name": u"name1"}>
>>> for i, k in zip(client.your.objects.order_by("-id"), order):
. . .     print i.id == k.id
. . .
True
True
True
```

Latest

```
>>> client = Client("http://api.server.com/your/v1/")
>>> latest = client.your.objects.latest("id")
>>> order = client.your.objects.order_by("-id")[0]
>>> latest.id == order.id
True
```

Relation

```
>>> client = Client("http://api.server.com/your/v1/")
>>> parent = client.parent.objects.filter(parent__your__name="name")
>>> parent
```



```
<QuerySet <class 'Response'> (2/2)>
>>> for p in parent:
. . .     print p.your
. . .
<your: {u"id": u"1", u"name": u"name", u"status": u"any"}>
<your: {u"id": u"2", u"name": u"name", u"status": u"any"}>
```

ManyToMany

```
>>> client = Client("http://api.server.com/your/v1/")
>>> parent = client.parent.objects.filter(id__in=[109, 110, 111])
>>> parent
<QuerySet <class 'Response'> (3/3)>
>>> for p in parent:
. . .     print p
. . .
<your: {u"id": u"109", u"name": u"name109", u"status": u"any"}>
<your: {u"id": u"110", u"name": u"name110", u"status": u"any"}>
<your: {u"id": u"111", u"name": u"name111", u"status": u"any"}>
>>> for p in parent:
. . .     print p.your
. . .
<ManyToManyManager object at 0x10a12e510>
<ManyToManyManager object at 0x10a12e510>
<ManyToManyManager object at 0x10a12e510>
>>> for p in parent:
. . .     print p.your.all()
. . .
<QuerySet <class 'Response'> (1/1)>
<QuerySet <class 'Response'> (10/10)>
<QuerySet <class 'Response'> (20/25)>
```

Save

```
>>> client = Client("http://api.server.com/your/v1/")
>>> your = client.your(name="name")
>>> your
<your: {u"name": u"name"}>
>>> your.save() # save Your object.
>>> your
<your: {u"id": u"2", u"name": u"name"}>
```

Create

```
>>> client = Client("http://api.server.com/your/v1/")
>>> your = client.your.objects.create(name="name")
>>> your
<your: {u"id": u"2", u"name": u"name"}>
```

Get OR Create

Returns a tuple of (object, created)

```
>>> client = Client("http://api.server.com/your/v1/")
>>> client.your.objects.get_or_create(name="name")
(<your: {u"id": u"2", u"name": u"name"}>, True)
>>> client.your.objects.get_or_create(name="name")
(<your: {u"id": u"2", u"name": u"name"}>, False)
```

Field

```
>>> client = Client("http://api.server.com/your/v1/")
>>> your = client.your
>>> your
<your: /your/v1/your/>
>>> you = your(name="your")
>>> you.bankcode = 4649
<your: /your/v1/your/ {'name': 'your', 'bankcode': 4649}>
>>> you.name
'your'
>>> you.bankcode
4649
>>> your.save() # save Your object.
```

Delete

```
>>> client = Client("http://api.server.com/your/v1/")
>>> message = client.message(subject="subject delete 1", body="body delete 1")
>>> message.save()
>>> message.id
<message: {u"id": u"1", u"subject": u"subject delete 1", u"body": u"body delete 1"}>
>>> message.delete() # remove Message object.
>>> try:
>>>     message.id
>>> except AttributeError:
>>>     assert True # throw AttributeError.
```

Pagination

```
>>> from django.core.paginator import Paginator
>>>
>>> client = Client("http://api.server.com/your/v1/")
>>> messages = client.objects.all()
>>>
>>> p = Paginator(message, 100)
>>> p.count
819
>>> p.num_pages
9
>>> p.page_range
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 9]
page1 = p.page(1)
>>> page1.object_list
<QuerySet <class 'Response'> (100/819)>
>>> page2 = p.page(2)
>>> page2
<Page 2 of 9>
>>> page2.object_list
<QuerySet <class 'Response'> (200/819)>
>>> page2.has_next()
True
>>> page2.has_previous()
True
>>> page2.has_other_pages()
True
>>> page2.next_page_number()
3
>>> page2.previous_page_number()
1
>>> page2.start_index() # The 1-based index of the first item on this page
101
>>> page2.end_index() # The 1-based index of the last item on this page
200
>>> p.page(3)
<Page 3 of 9>
```

Class:

CHAPTER 2

Client

autodoc: failed to import class u'Client' from module u'queryset_client'; the following exception was raised: Traceback (most recent call last): File "/home/docs/checkouts/readthedocs.org/user_builds/tastypie-queryset-client/envs/latest/lib/python2.7/site-packages/sphinx/ext/autodoc.py", line 551, in import_object __import__(self.modname) File "/home/docs/checkouts/readthedocs.org/user_builds/tastypie-queryset-client/checkouts/latest/queryset_client/__init__.py", line 1, in <module> from client import Client File "/home/docs/checkouts/readthedocs.org/user_builds/tastypie-queryset-client/checkouts/latest/queryset_client/client.py", line 5, in <module> import slumber ImportError: No module named slumber

`class queryset_client.client.model_gen(**configs).Model(**kwargs)`

Bases: object

delete()

- Return type: NoneType

save()

- Return type: NoneType

schema(*attrs)

- attrs example

```
>>> self.schema("fields")  
# out fields schema  
>>> self.schema("fields", "id")  
# out id schema
```

- Parameters: attrs (tuple)
- Return type: dict
- Returns: model schema

autodoc: failed to import class u'Manager' from module u'queryset_client.client'; the following exception was raised: Traceback (most recent call last): File "/home/docs/checkouts/readthedocs.org/user_builds/tastypie-queryset-client/envs/latest/lib/python2.7/site-packages/sphinx/ext/autodoc.py", line 551, in import_object __import__(self.modname) File "/home/docs/checkouts/readthedocs.org/user_builds/tastypie-queryset-client/checkouts/latest/queryset_client/__init__.py", line 1, in <module> from client import Client File "/home/docs/checkouts/readthedocs.org/user_builds/tastypie-queryset-client/checkouts/latest/queryset_client/client.py", line 5, in <module> import slumber ImportError: No module named slumber

autodoc: failed to import class u'ManyToManyManager' from module u'queryset_client.client'; the following exception was raised: Traceback (most recent call last): File "/home/docs/checkouts/readthedocs.org/user_builds/tastypie-queryset-client/envs/latest/lib/python2.7/site-packages/sphinx/ext/autodoc.py", line 551, in import_object __import__(self.modname) File "/home/docs/checkouts/readthedocs.org/user_builds/tastypie-queryset-client/checkouts/latest/queryset_client/__init__.py", line 1, in <module> from client import Client File "/home/docs/checkouts/readthedocs.org/user_builds/tastypie-queryset-client/checkouts/latest/queryset_client/client.py", line 5, in <module> import slumber ImportError: No module named slumber

Change History:

0.7.2 (2013-02-17)

- Support decimal field. (In ver py2.7)
- Support new slumber and requests package.

0.7.1rc1 (2012-12-31)

- Support issue #34
- Support issue #33

0.6.4 (2012-08-14)

- Support issue #29
- Add clear method in the ManyToManyManager.
- Add remove method in the ManyToManyManager.

0.6.3 (2012-07-15)

- Moved testsuite position.

0.6.2 (2012-07-15)

- Fixed issue #31 (Pagination Performance)

- Support strict field in Model.

0.5.2 (2012-07-10)

- First release.

CHAPTER 6

Indices and tables

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