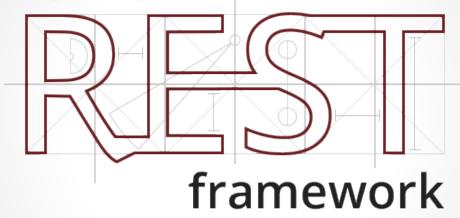
# django



# who am I?

- developer@keycrunch & founder@offerqa
- built REST api in Django since 2013

follow me on twitter @linuxcity

### What is REST?

http://en.wikipedia.org/wiki/Representational\_State\_Transfer

Web API that uses GET, POST, PUT, PATCH, DELETE operations over HTTP.

# What do you need from a framework

- serialization and deserialization
- pagination
- data validation
- authentication
- custom queryset
- proper HTTP response handling (errors, format and such)
- caching
- throttling
- permissions

### Good to have

- Really good test coverage of their code
- Decent performance
- Documentation
- An active community to advance and support the framework

And Django REST Framework has them all!!!

# Why Django REST framework

- Class-based views
- it's very django-ish

...As it's based off Django 1.3 style Class Based Views (CBVs), it has a very familiar pattern. Actually, because of the quality of the documentation, I really prefer using django-rest-framework CBVs more than using Django's actual CBVs...

-from http://pydanny.com/choosing-an-api-framework-for-django.html

neat design

# **And Most of All**

I enjoyed working with it

# Requirement

Django >1.4.11

so if you are still on Django 1.3, it's time to update. And you should have done that three years ago!

models.py

```
class Post(models.Model):
    post = models.TextField()

class PostSerializer(serializers.HyperlinkedModelSerializer):
    class Meta:
        model = Post
```

views.py

```
class PostViewSet(viewsets.ModelViewSet):
    queryset = Post.objects.all()
    serializer_class = PostSerializer
```

### urls.py

```
router = routers.SimpleRouter()
router.register(r'posts', views.PostViewSet)
urlpatterns = patterns(",
    url(r'^', include(router.urls)),
```

This project can be found at:

https://github.com/zheli/django-rest-kog

tag: v1

# **Key elements**

serializer views

# serializer

serializing: querysets, model instances->python native datatypes

deserializing:
data string->model instances

# serializer

automatic serializers from model:

ModelSerializer, HyperlinkedModelSerializer

### views

automatic views from model:

ModelViewSets: CRUD + list

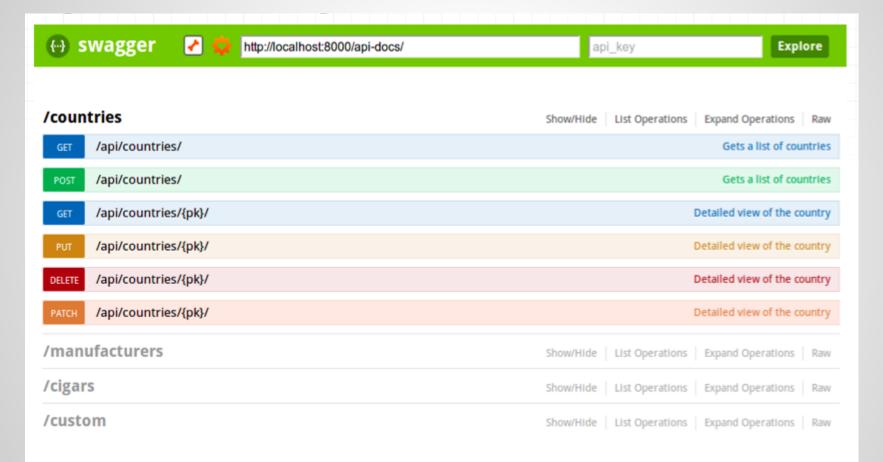
ReadOnlyModelViewSet: retrieve + list

# test

```
APIRequestFactory() from RequestFactory
APIClient() from Client
Test POST request:
class PostTests(APITestCase): ←- self.client == APIClient()
 def test create post(self):
  response = self.client.post('/posts/', {'post': 'this is a test post'}, format='json')
  self.assertEqual(response.status_code, status.HTTP_201_CREATED)
  assert response.data is not None
```

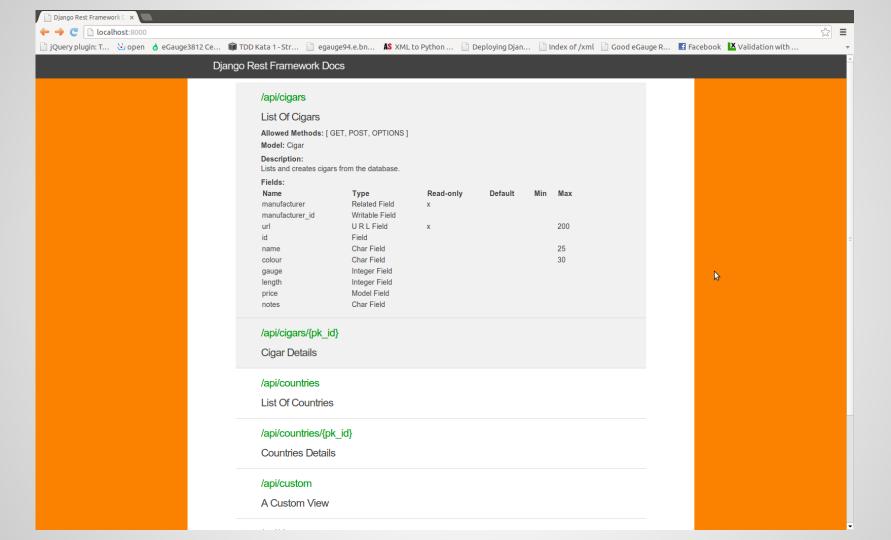
# documentation

Django REST Swagger



# documentation

**REST Framework Docs** 



# **Questions & Feedbacks**

Interesting?

What's next?