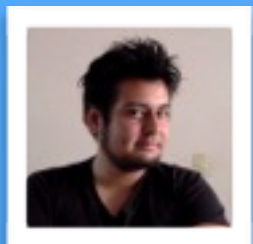




RESTful API

Building a Fully Functional API



@fixter_



WTF is a RESTful API?

Representational State Transfer



With the

data:

JSON and XML



Django Rest Framework

```
pip install djangorestframework
```

Editamos el settings.py

```
INSTALLED_APPS = (  
    # ...  
    'rest_framework',  
)
```

y agregamos la variable:

```
REST_FRAMEWORK = {'DEFAULT_PERMISSION_CLASSES': [  
    'rest_framework.permissions.DjangoModelPermissionsOrAnonReadOnly'  
    ]}
```



Definimos los Serializadores

```
app /  
    api /  
        __init__.py  
        serializers.py
```

```
from rest_framework import serializers  
from ..models import Suscriptor
```

```
class SuscriptorSerializer(serializers.ModelSerializer):  
    class Meta:  
        model = Suscriptor  
        fields = ('id', 'nombre', 'email')
```




Probamos el Serializador

```
>>> from main.models import Suscriptor
>>> from main.serializers import SuscriptorSerializer

>>> suscriptor = Suscriptor(nombre='bliss', id=2, email='mijo@mijito.com')
>>> serializer = SuscriptorSerializer(suscriptor)
>>> serializer.data
```



```
{'nombre': 'bliss', 'id': 2, 'email': 'mijo@mijito.com'}
```



Parsers and Renderers

Los datos serializados deben ser renderizáados en un formato específico antes de devolver una respuesta HTTP.

De igual manera cuando recibimos datos en el servidor tenemos que “parsear” los datos y des-serializarlos antes de poder manipularlos.

REST Framework incluye renderers y parsers para manejar esto.



REST Views and Mixins

app/api/views.py

```
from rest_framework import generics
from ..models import Suscriptor
from .serializers import SuscriptorSerializer
```

```
class SuscriptorListView(generics.ListAPIView):
    queryset = Suscriptor.objects.all()
    serializer_class = SuscriptorSerializer
```

```
class SuscriptorDetailView(generics.RetrieveAPIView):
    queryset = Suscriptor.objects.all()
    serializer_class = SuscriptorSerializer
```



app/api/urls.py

```
from django.conf.urls import url
from . import views

urlpatterns=[
    url(r'^suscriptores/$',
        views.SuscriptorListView.as_view(),
        name="suscriptor_list"),
    url(r'^suscriptores/(?P<pk>\d+)/$',
        views.SuscriptorDetailView.as_view(),
        name="suscriptor_detail"),
]
```




to be continued..



RESTful API