Documentation with OpenAPI

Django Development II

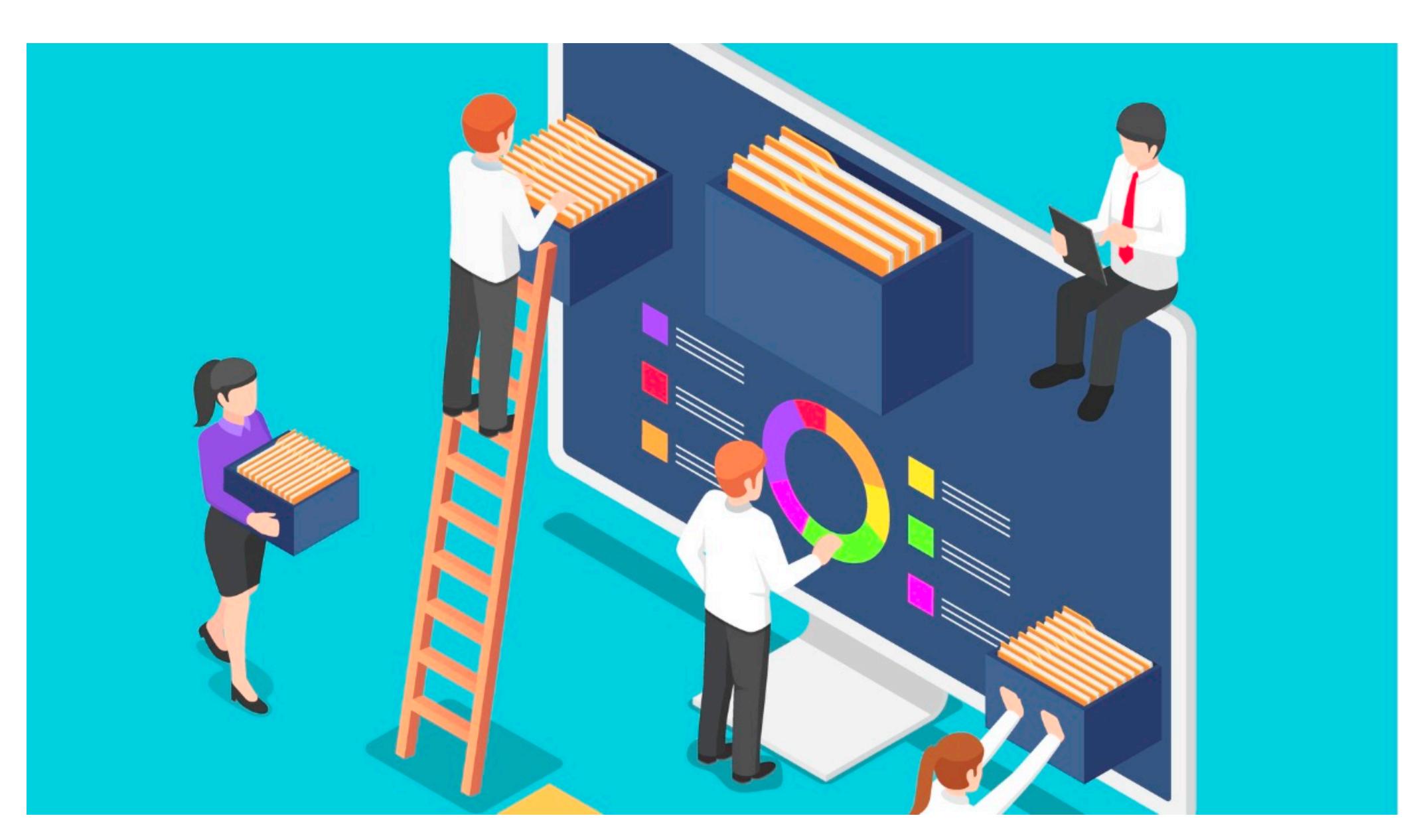
Documenting Python Code

```
import math
       class SimpleEquation:
           def demo(self, a, b, c):
                11 11 11
6
                :param int a: quadratic coefficient
                :param int b: linear coefficient
                :param c: free term
10
                :type c: int
                11 11 11
                d = math.sqrt(abs(b ** 2 - 4 * a * c))
                root1 = (-b + d) / (2 * a)
14
                root2 = (-b - d) / (2 * a)
                print(root1, root2)
16
18
       SimpleEquation().demo(3, 2, 1)
19
```

Documenting With Type Hinting

```
def headline(text: str, align: bool = True):
    if align:
        return f"{text."
                       m capitalize(self)
                                                                               str
                      m casefold(self)
                                                                              str
                      m center(self, width, fillchar)
                                                                              str
                      m count(self, x, start, end)
                                                                              str
                      m encode(self, encoding, errors)
                                                                              str
                      m endswith(self, suffix, start, end)
                                                                              str
                      m expandtabs(self, tabsize)
                                                                              str
                      m find(self, sub, start, end)
                                                                              str
                      m format(self, args, kwargs)
                                                                              str
                      m format map(self, map)
                                                                              str
                      m index(self, sub, start, end)
                                                                              str
                       a icalnum (calf)
                      Press Ctrl+. to choose the selected (or first) suggestion and insert a dot afterwards \pi
```

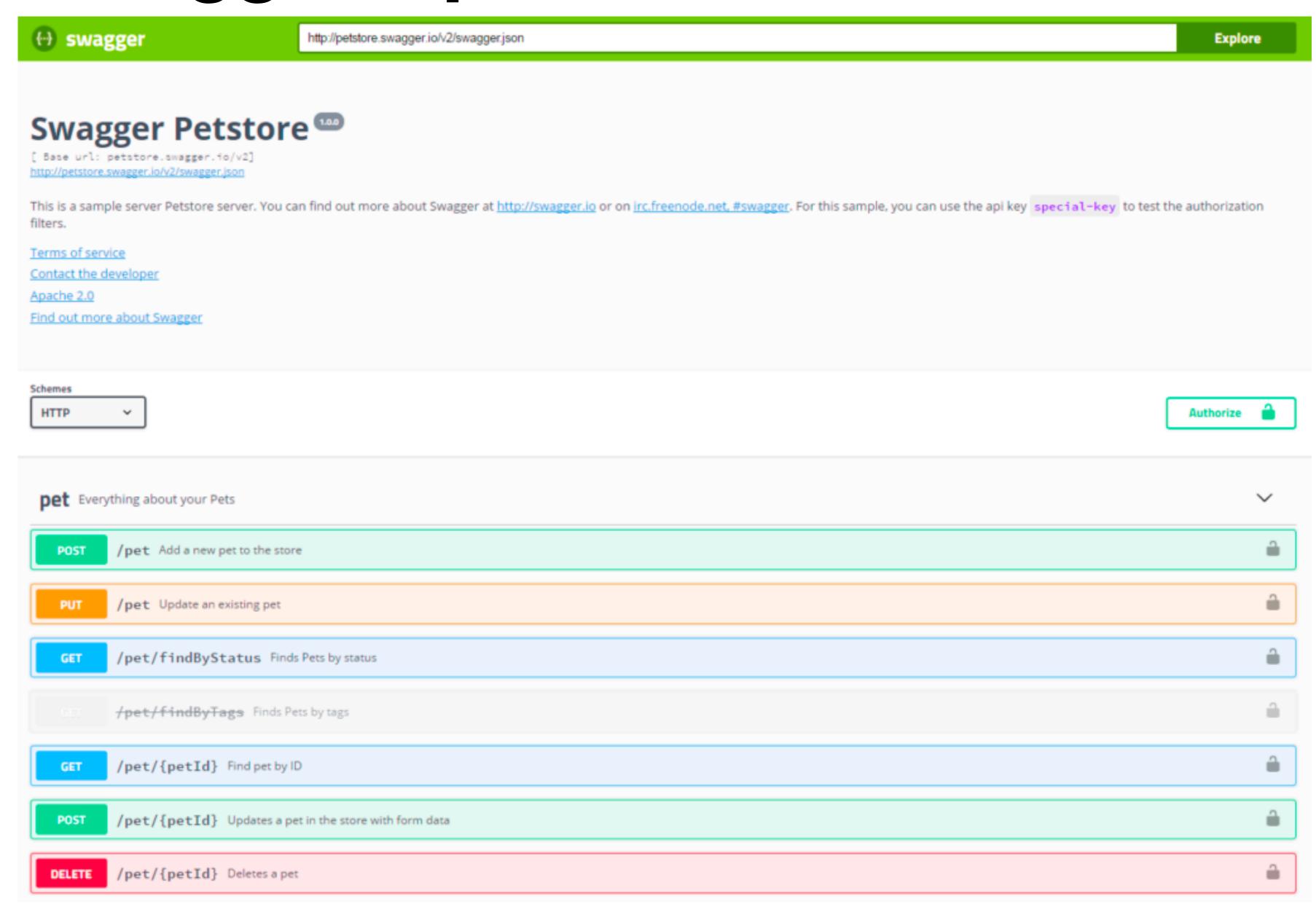
Why Documentation?



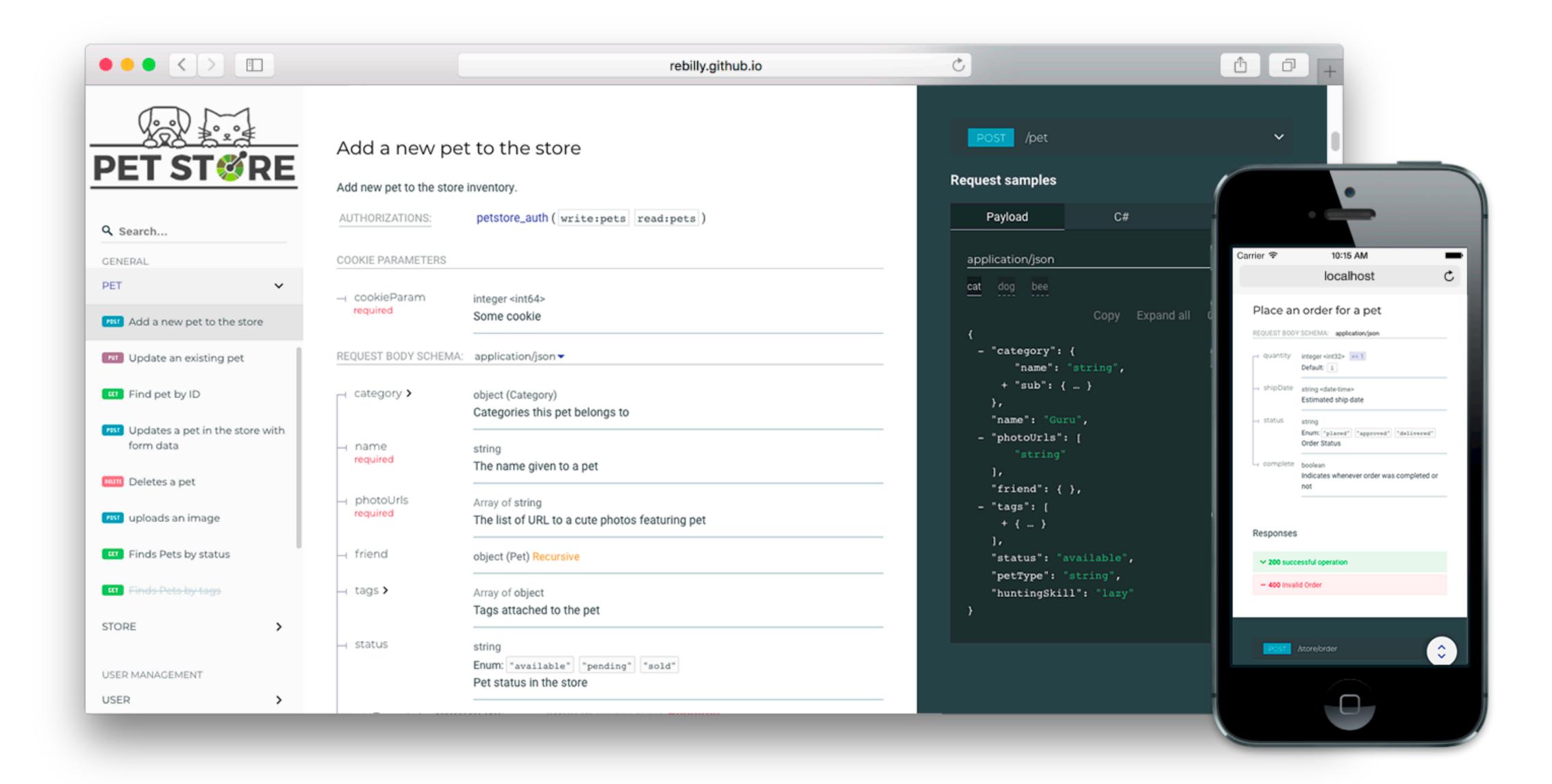
API Contracts



Swagger OpenAPI Docs



ReDoc



never lies, <!-- comments --> sometimses do.

- Ron Jeffries



Generating Docs with RRF-YASG

```
pip install -U drf-yasg
1. Quickstart
In settings.py :
  INSTALLED\_APPS = [
     'django.contrib.staticfiles', # required for serving swagger ui's css/js files
     'drf_yasg',
```

```
In urls.py:
```

```
. . .
from rest_framework import permissions
from drf_yasg.views import get_schema_view
from drf_yasg import openapi
. . .
schema_view = get_schema_view(
   openapi.Info(
      title="Snippets API",
      default_version='v1',
      description="Test description",
      terms_of_service="https://www.google.com/policies/terms/",
      contact=openapi.Contact(email="contact@snippets.local"),
      license=openapi.License(name="BSD License"),
   ),
   public=True,
   permission_classes=(permissions.AllowAny,),
urlpatterns = [
   url(r'^swagger/$', schema_view.with_ui('swagger', cache_timeout=0), name='schema-swagger-ui
   url(r'^redoc/$', schema_view.with_ui('redoc', cache_timeout=0), name='schema-redoc'),
   . . .
```