Django RESTful API Framework

Desenvolvendo a primeira API:

* Configurações iniciais e criando o projeto Library
* criar a virtualenv - $python3.9 - virtualenv venv;
* ativar a virtualenv - $source venv/bin/activate;
* instalar as dependencias - $pip install django djangorestframework;
* criar o projeto - $django-admin startproject library . (nome=library);
* instalar o App - $django-admin startapp books (books=funcionalidades);
* abrir a Folder do projeto no VSCODE;
* library/settings.py add ‘rest\_framework’ e ‘books’ no campo INSTALLED\_APPS;
* rodar o servidor local - $python manage.py runserver/
* criar tabela de autenticação - $python manage.py migrate;
* Criando o Model:
* criar a class em books/models.py:

from django.db import models

from uuid import uuid4

# Create your models here.

class Books(*models*.Model):

id\_book = models.UUIDField(*primary\_key*=True, *default*=uuid4, *editable*=False)

title = models.CharField(*max\_length*=255)

author = models.CharField(*max\_length*=255)

release\_year = models.IntegerField()

state = models.CharField(*max\_length*=50)

pages = models.IntegerField()

publishing\_company = models.CharField(*max\_length*=255)

create\_at = models.DateField(*auto\_now\_add*=True)

* no terminal entrar com os comandos - $python manage.py makemigrations e $python manage.py migrate
* Criando o Serializer:
* criar uma pasta API dentro de books, dentro da pasta criar o arquivo serializers.py;
* add dentro do arquivo serializers.py:

from rest\_framework import serializers

from books.models import Books

class BooksSerializer(*serializers*.ModelSerializer):

class Meta:

model = Books

fields ="\_\_all\_\_"

* Criando a ViewSet:
* criar o arquivo viewsets.py dentro da pasta API;

from rest\_framework import viewsets

from books.api.serializers import BooksSerializer

from books.models import Books

class BooksViewSet(*viewsets*.ModelViewSet):

serializer\_class = BooksSerializer

queryset = Books.objects.all()

* Criando a URL:
* Abrir library/urls.py e adicionar os comandos abaixo:

from rest\_framework import routers

from books.api.viewsets import BooksViewSet

route = routers.DefaultRouter()

route.register(r'books', BooksViewSet, *basename*='Books')

urlpatterns = [

path('admin/', admin.site.urls),

path('', include(route.urls))

]