





### Ciclo de Requests

**GET** https://dummyjson.com/users/1 from rest\_framework import serializers from .models import MockUser class MockUserSerializer(serializers.ModelSerializer): class Meta: model = MockUser fields = ['id', 'username', 'email']











request





endpoint

urls

from django.urls import path, include from rest\_framework.routers import DefaultRouter from .views import MockUserViewSet router = DefaultRouter() router.register(r'mock-users', MockUserViewSet) urlpatterns = [ path('', include(router.urls)),



viewsets





class MockUserViewSet(viewsets.ModelViewSet): queryset = MockUser.objects.all() serializer\_class = MockUserSerializer



```
class MockUser(models.Model):
    username = models.CharField(max_length=100)
    email = models.EmailField(unique=True)
    def __str__(self):
        return self.username
```

modes







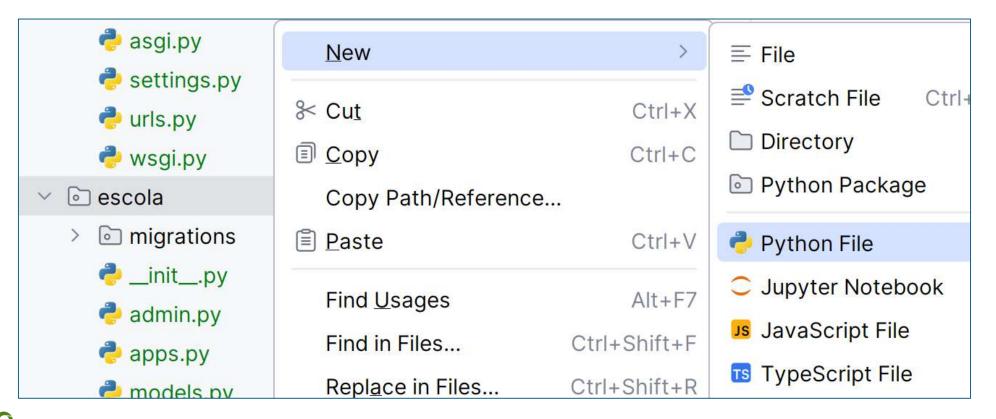






**Urls** = arquivo que registra suas urls pros seus viewsets.

1) Vamos criar um novo arquivo python chamado 'urls' dentro da sua aplicação.











```
Urls
```



```
from django.urls import path, include
                                                        <- importamos os modelos necessários</pre>
    from rest_framework.routers import DefaultRouter
    from escola.views import ClientViewSet, ProductViewSet, EmployeeViewSet, SaleViewSet
                               <- utilizamos o router pra registrar urls
    router = DefaultRouter()
    router.register(prefix: r'clients', ClientViewSet) <- 'ligamos' registro url com viewset
    router.register(prefix: r'products', ProductViewSet)
    router.register(prefix: r'employees', EmployeeViewSet)
    router.register(prefix: r'sales', SaleViewSet)
10
                                                   Obs. Até agora exemplo de url tá assim:
    urlpatterns = [
11 V
                                                   www.localhost:8000/ .....{r} /clients
        path('', include(router.urls)),
12
              <-agora pra onde vai esse router?</pre>
13
```





@fpftech.educacional

No projetão, acesse o arquivo urls.py e faça a alteração pra incluir as urls que criamos

```
from django.contrib import admin
from django.urls import path
urlpatterns = [
   path('admin/', admin.site.urls),
                                                  Estamos dizendo que o path 'caminho' pro
                                                  nosso router que criamos será limpo
                                                  Então, o exemplo de uma url seria:
                                                  www.localhost:8000/clients
                      vrlpatterns =
                             path('', include('escola.urls')),
                             path('admin/', admin.site.urls),
                             path('api-auth/', include('rest_framework.urls')),
                                              Vamos testar?
```

### Ciclo de Requests

**GET** https://dummyjson.com/users/1 from rest\_framework import serializers from .models import MockUser class MockUserSerializer(serializers.ModelSerializer): class Meta: model = MockUser fields = ['id', 'username', 'email']













urls

viewsets







request

from django.urls import path, include from rest\_framework.routers import DefaultRouter from .views import MockUserViewSet router = DefaultRouter() router.register(r'mock-users', MockUserViewSet) urlpatterns = [ path('', include(router.urls)),

class MockUserViewSet(viewsets.ModelViewSet): queryset = MockUser.objects.all() serializer\_class = MockUserSerializer







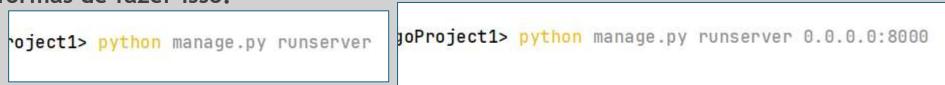


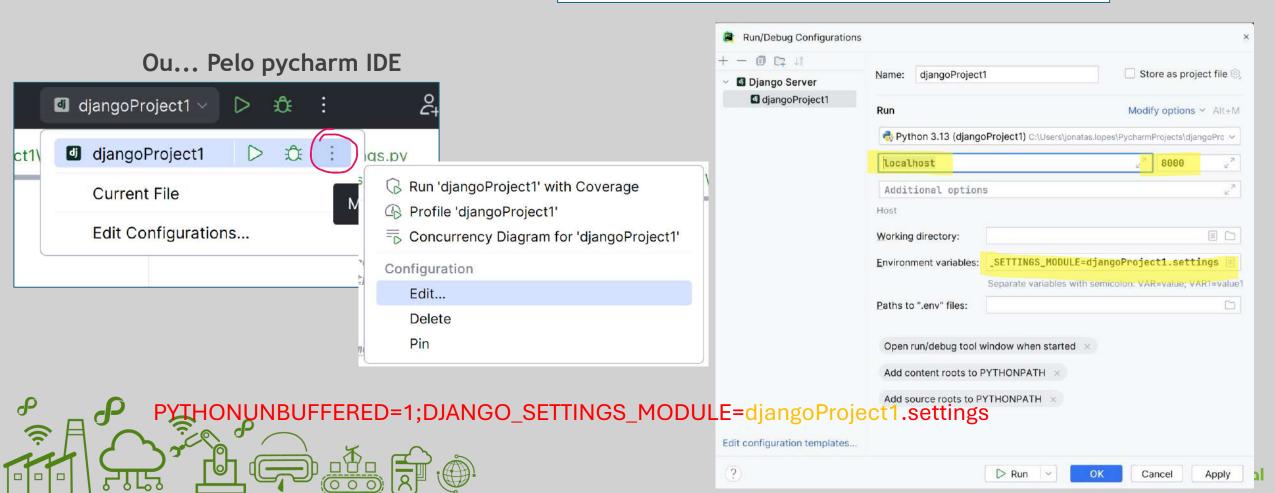


### Pycharm



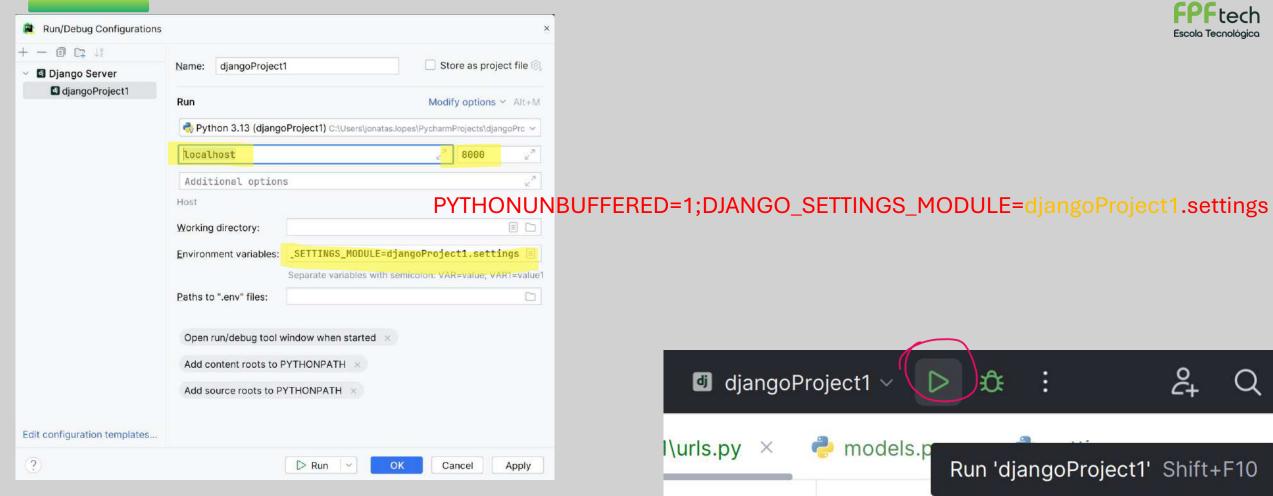
Primeiro devemos configurar o Django pra rodar localmente. 2 formas de fazer isso:

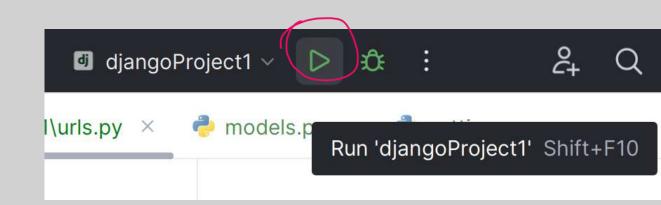




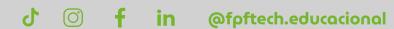
### Pycharm











### Pycharm



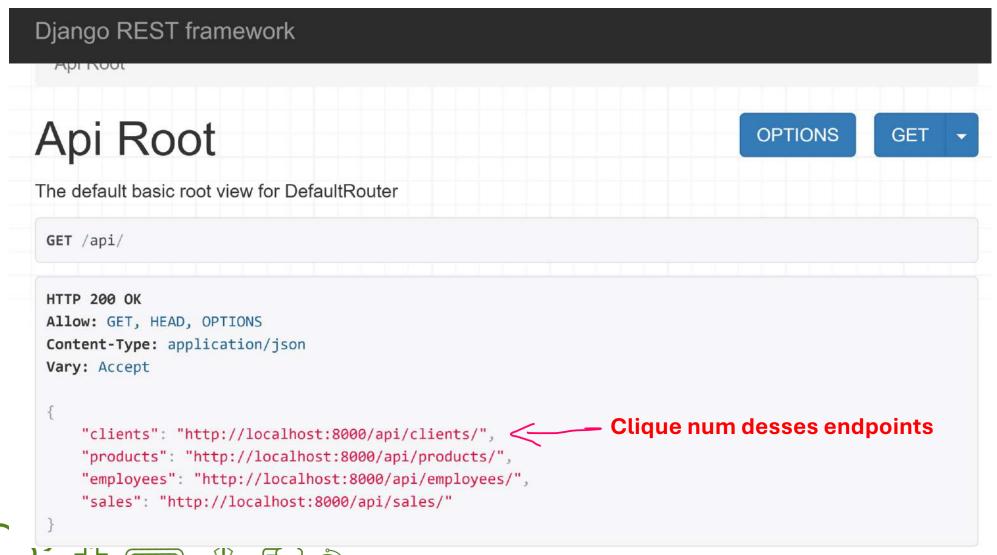






#### www.localhost:8000/











Api Root / Employee List **Employee List** 

OPTIONS



```
GET /api/employees/
HTTP 200 OK
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept
        "id": 1,
        "created_at": null,
        "modified_at": null,
        "active": true,
        "name": "Beltrano dos Santos",
        "registration": "456789"
        "id": 2,
        "created_at": null,
        "modified_at": null,
        "active": true,
        "name": "Fulana Rosa",
        "registration": "345678"
```

|              | Raw data | HTML form |
|--------------|----------|-----------|
| Active       |          |           |
| Name         |          |           |
| Registration |          |           |
|              |          | POST      |

## Exemplo de POST



**POST** 

| Active     |        |  |
|------------|--------|--|
| Name       | Teste  |  |
| gistration | 567890 |  |
|            |        |  |











# **Employee List**

```
POST /api/employees/
```

```
HTTP 201 Created
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

{
    "id": 3,
    "created_at": "2025-05-14T08:49:12.105816Z",
    "modified_at": "2025-05-14T08:49:12.105833Z",
    "active": true,
    "name": "Teste",
    "registration": "567890"
}
```



Api Root / Employee List



### **Employee List**

```
GET /employees/
HTTP 200 OK
```

```
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept
        "id": 1,
        "created_at": null,
       "modified_at": null,
        "active": true,
        "name": "Beltrano dos Santos",
        "registration": "456789"
        "id": 2,
        "created_at": null,
        "modified_at": null,
        "active": true,
        "name": "Fulana Rosa",
        "registration": "345678"
        "id": 3,
        "created_at": "2025-05-14T08:49:12.105816Z",
        "modified_at": "2025-05-14T08:49:12.105833Z",
        "active": true,
        "name": "Teste",
        "registration": "567890"
```



```
GET do sale
```

```
HTTP 200 OK
                                          Allow: GET, POST, HEAD, OPTIONS
                                          Content-Type: application/json
                                          Vary: Accept
                                                  "id": 4,
                                                  "product": {
                                                      "id": 1.
No serializer dizemos pra ele trazer o obj ->
                                                      "description": "Aula de Ingles com material didático",
                                                      "quantity": 1
                                                  "client": {
                                                      "id": 2
                                                       "name": "Fulano da Silva",
No serializer dizemos pra ele trazer o obj ->
                                                       'age": 23,
                                                       'rg": "123456-7",
                                                       'cpf": "123456789-01"
                                                   "employee":
                                                      "id": 1,
                                                      "created at": null,
                                                      "modified at": null,
                                                       "active": true,
No serializer dizemos pra ele trazer o obj ->
                                                       'name": "Beltrano dos Santos",
                                                       "registration": "456789"
                                                  "nrf": "123456789-0"
```





#### No serializer dizemos pra ele receber só o numero e ir buscar o obj

#### Aqui (já que é o próprio Django Admin) ele já buscou todos (all) obj e nos mostrou por id

| Product id  | Product object (2)  |
|-------------|---------------------|
| Client id   | Client object (5)   |
| Employee id | Employee object (1) |
|             | Employee object (1) |
| Nrf         | Employee object (2) |
|             | Employee object (3) |
|             | POST                |
|             |                     |







### Resultado do POST do sale



```
Django REST framework
Sale List
 POST /sales/
 HTTP 201 Created
 Allow: GET, POST, HEAD, OPTIONS
 Content-Type: application/json
 Vary: Accept
     "id": 7,
     "product": {
        "id": 2,
         "description": "Material didático de Introdução a Física nível Ensino Superior
         "quantity": 2
     },
     "client": {
         "id": 5,
         "name": "Siclano Bertrano",
         "age": 19,
         "rg": "12345498-9",
         "cpf": "234456859-48"
     "employee": {
         "id": 1,
         "created_at": null,
         "modified_at": null,
         "active": true,
         "name": "Beltrano dos Santos",
         "registration": "456789"
     "nrf": "456789012-3"
```

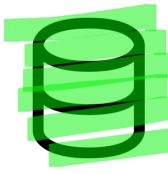


### Ciclo de Requests

**GET** https://dummyjson.com/users/1 from rest\_framework import serializers from .models import MockUser class MockUserSerializer(serializers.ModelSerializer): class Meta: model = MockUser fields = ['id', 'username', 'email']









request





endpoint

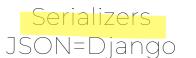
urls

from django.urls import path, include from rest\_framework.routers import DefaultRouter from .views import MockUserViewSet router = DefaultRouter() router.register(r'mock-users', MockUserViewSet) urlpatterns = [ path('', include(router.urls)),



viewsets









modes







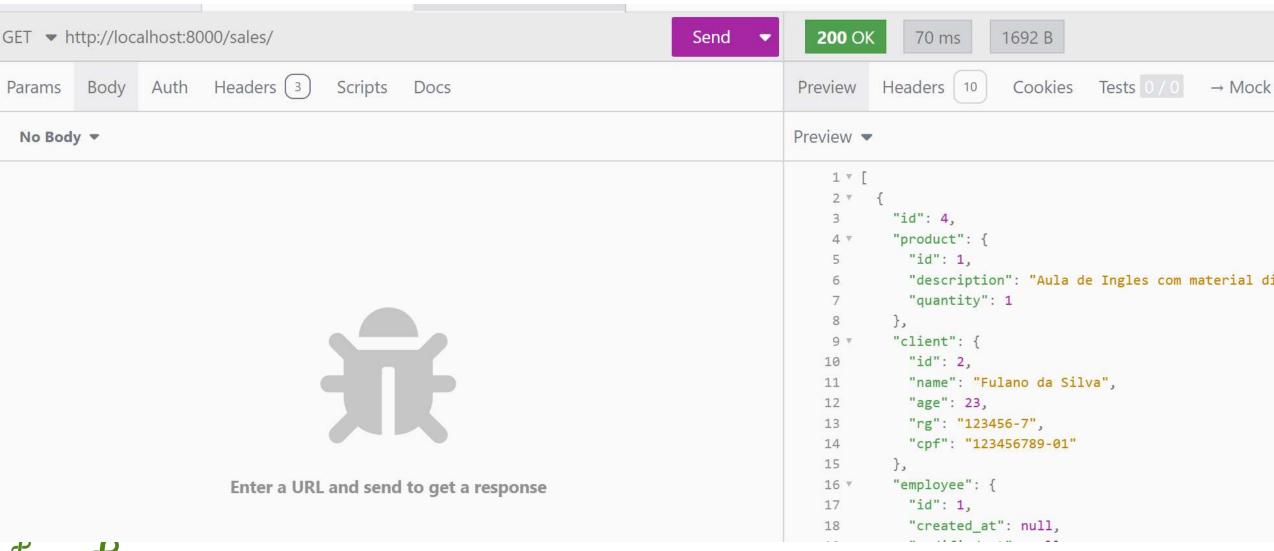






### Exemplo GET 'sale' no insomnia



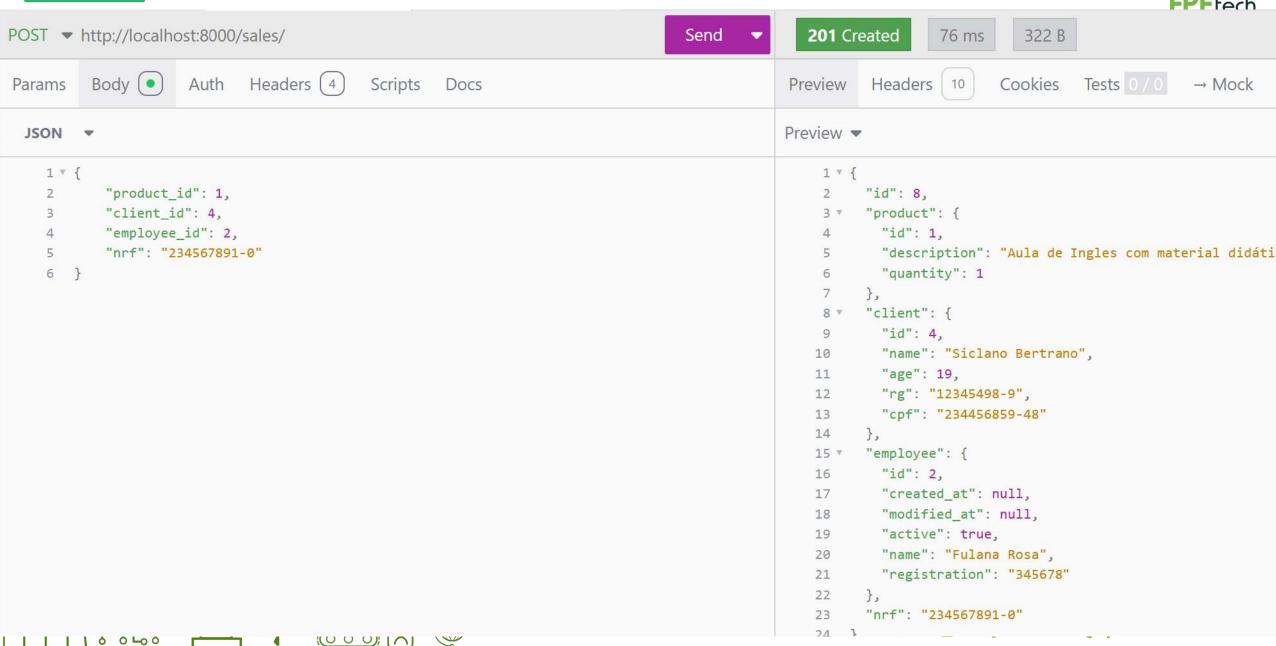






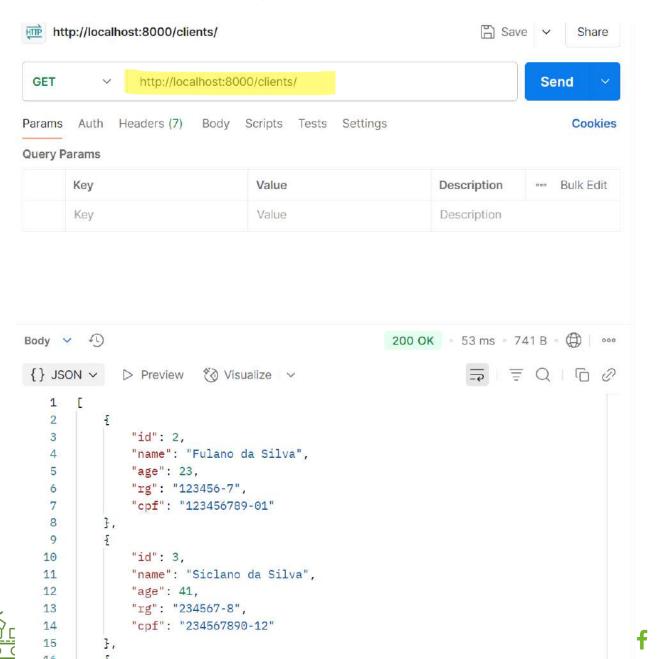
### Exemplo POST 'sale' no insomnia





### Exemplo GET 'clients' no postman





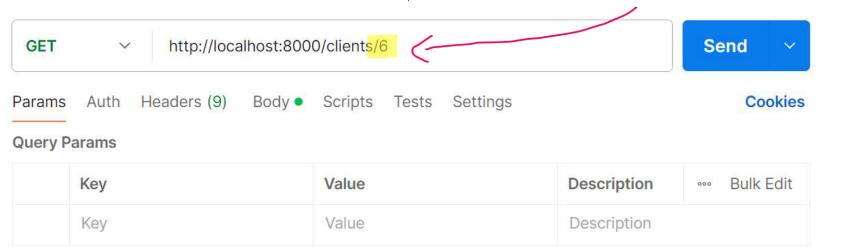
in @fpftech.educacional

Exemplo GET 'clients' específico





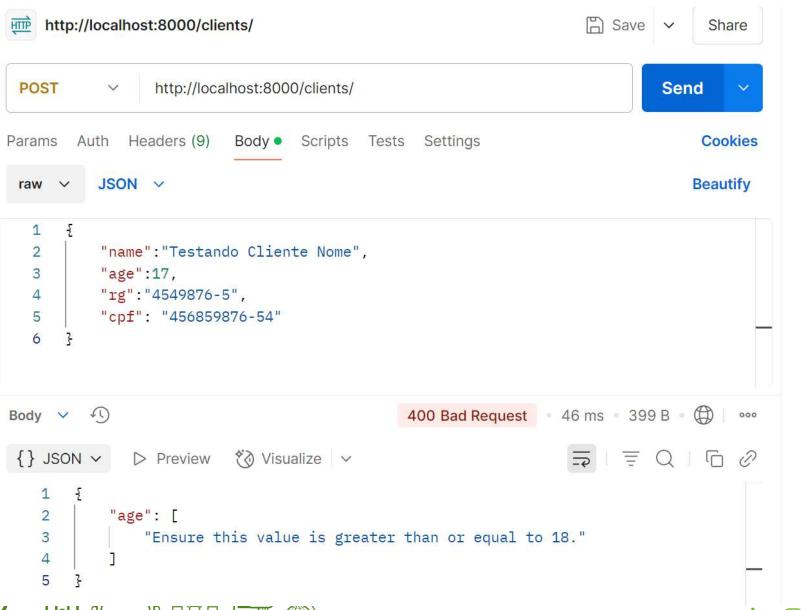
@fpftech.educacional





### Exemplo POST 'clients' no postman





Por que deu errado?

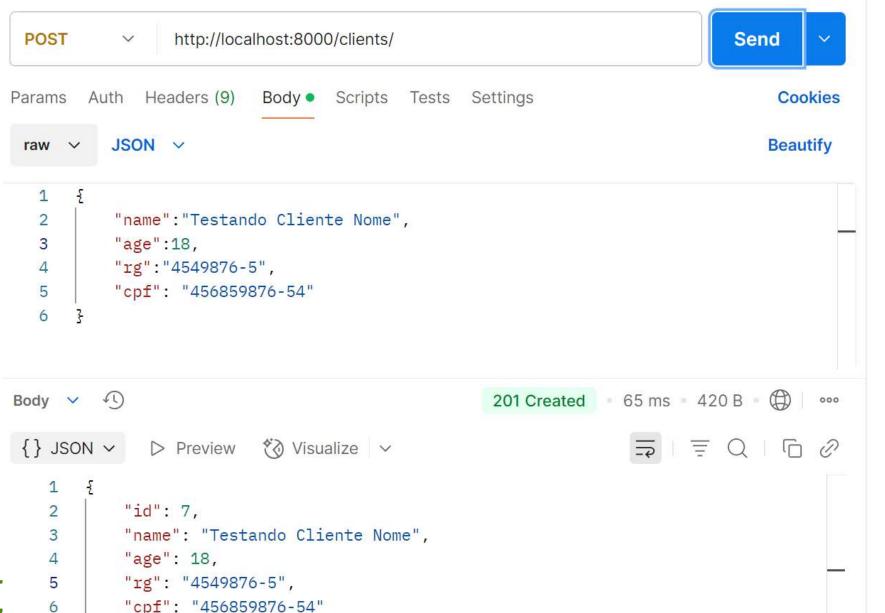






### Exemplo POST 'clients' no postman





Agora sim!

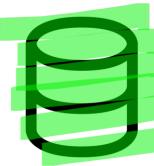
in @fpftech.educacional

### Ciclo de Requests

**GET** https://dummyjson.com/users/1 from rest\_framework import serializers from .models import MockUser class MockUserSerializer(serializers.ModelSerializer): class Meta: model = MockUser fields = ['id', 'username', 'email']









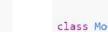






urls





from django.db import models class MockUser(models.Model): username = models.CharField(max\_length=100) email = models.EmailField(unique=True) def \_\_str\_\_(self): return self.username

models







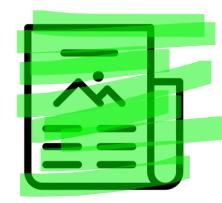


@fpftech.educacional



request

from django.urls import path, include from rest\_framework.routers import DefaultRouter from .views import MockUserViewSet router = DefaultRouter() router.register(r'mock-users', MockUserViewSet) urlpatterns = [ path('', include(router.urls)),







JSON=Django

class MockUserViewSet(viewsets.ModelViewSet):

queryset = MockUser.objects.all() serializer\_class = MockUserSerializer



# Obrigadol













of fin (afpftech.educacional