





Ciclo de Requests

GET v https://dummyjson.com/users/1















urls











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

```
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
```





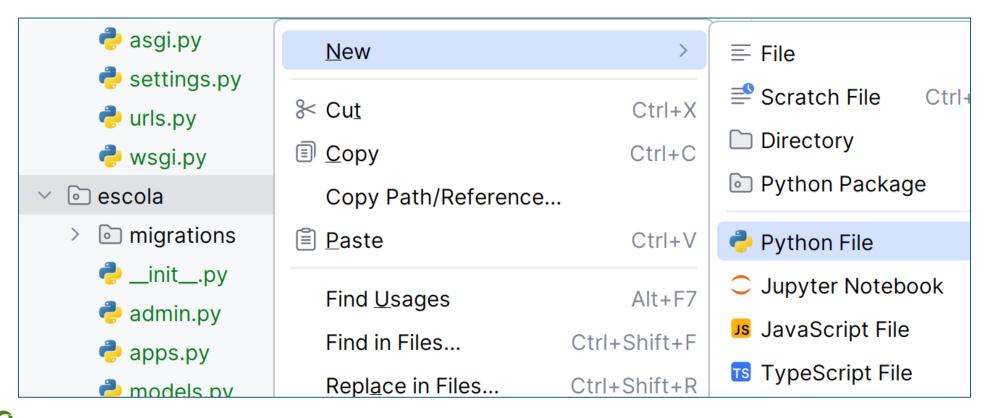






Urls = arquivo que registra suas urls pros seus viewsets.

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:
11 ~
    urlpatterns = [
                                                   www.localhost:8000/ .....{r} /clients
        path('', include(router.urls)),
12
13
              <-agora pra onde vai esse router?</pre>
```





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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
                      vurlpatterns =
                             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']

Serializers

JSON=Django















request

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)),

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

viewsets



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







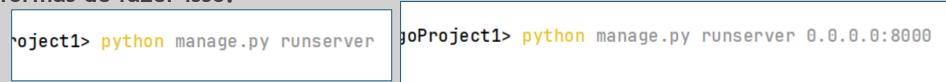


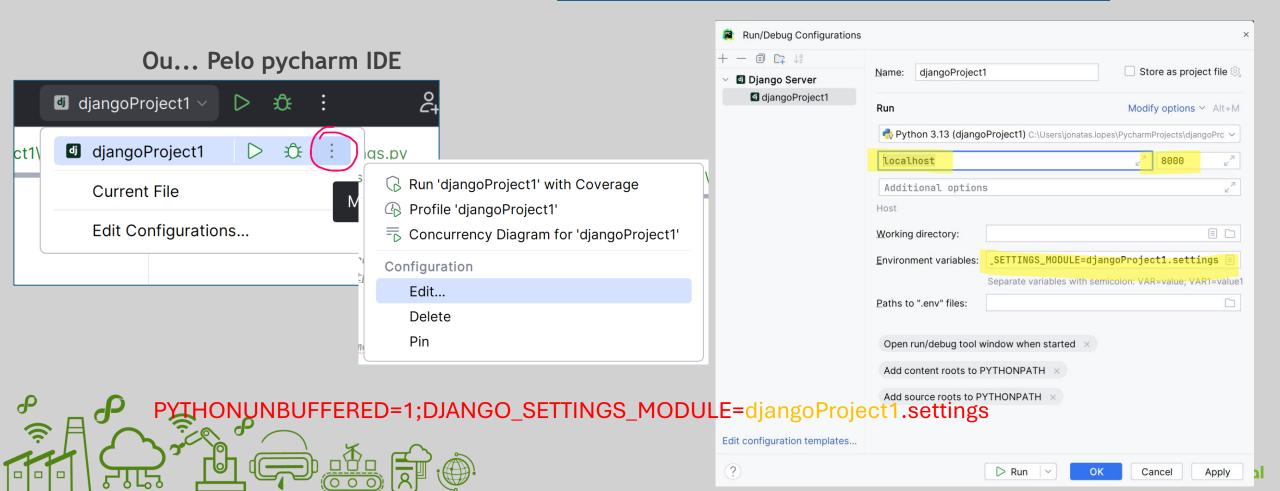


Pycharm



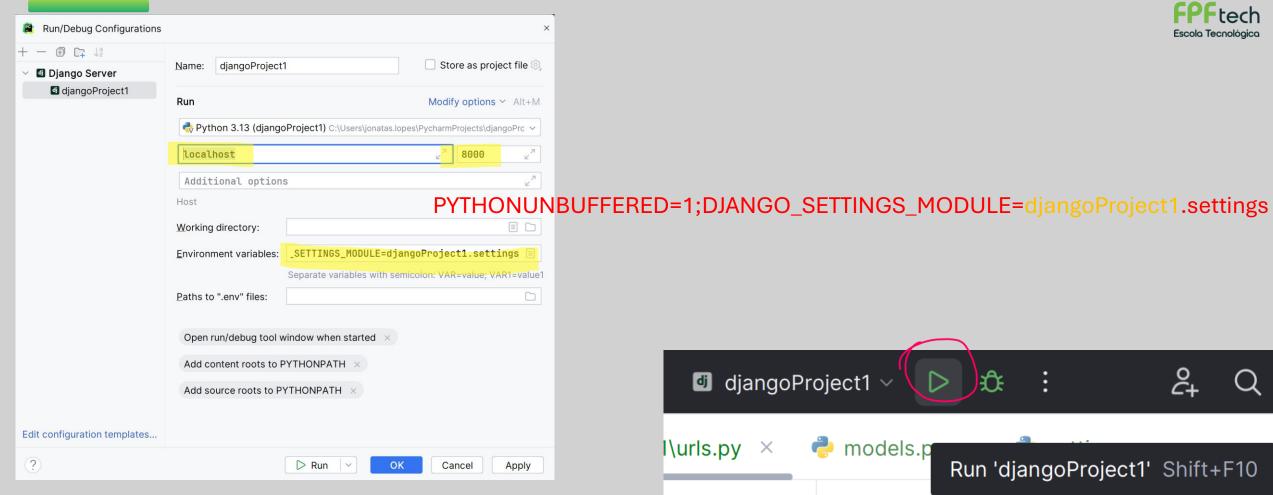
Primeiro devemos configurar o Django pra rodar localmente. 2 formas de fazer isso:

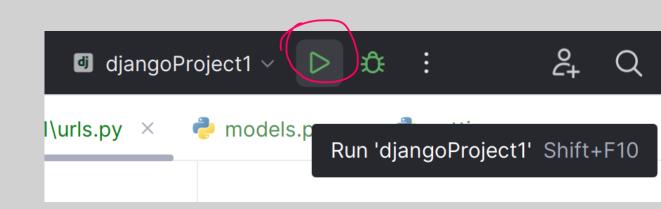




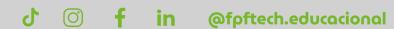
Pycharm











Pycharm





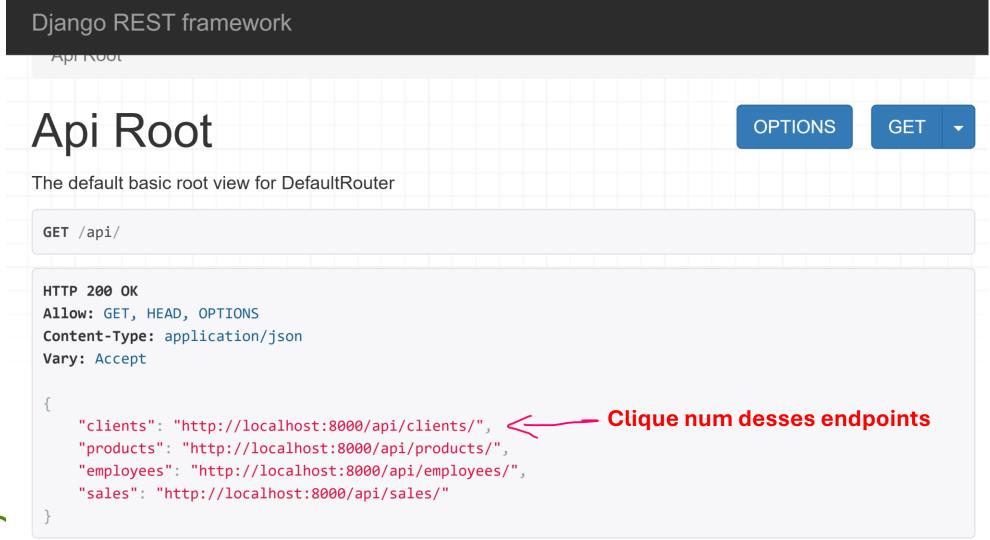






www.localhost:8000/











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	
egistration	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"
```





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)	J
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"
```

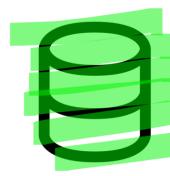


Ciclo de Requests

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request

urls

from django.urls import path, include

from .views import MockUserViewSet



router = DefaultRouter() router.register(r'mock-users', MockUserViewSet) urlpatterns = [path('', include(router.urls)),



viewsets



Serializers JSON=Django



modes



def str (self):



return self.username





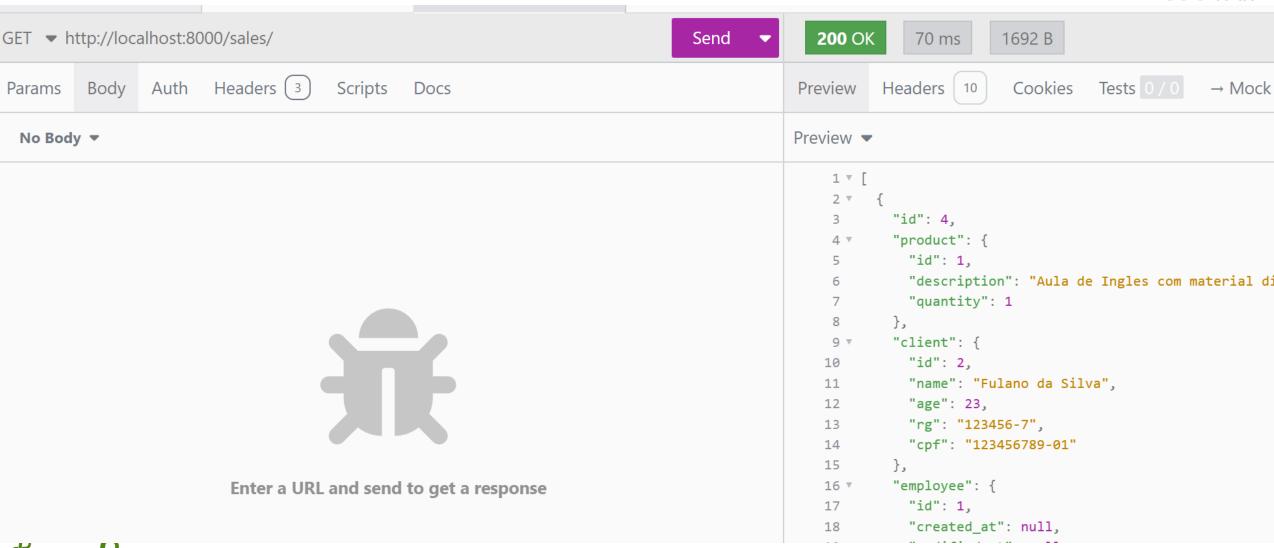
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Exemplo GET 'sale' no insomnia





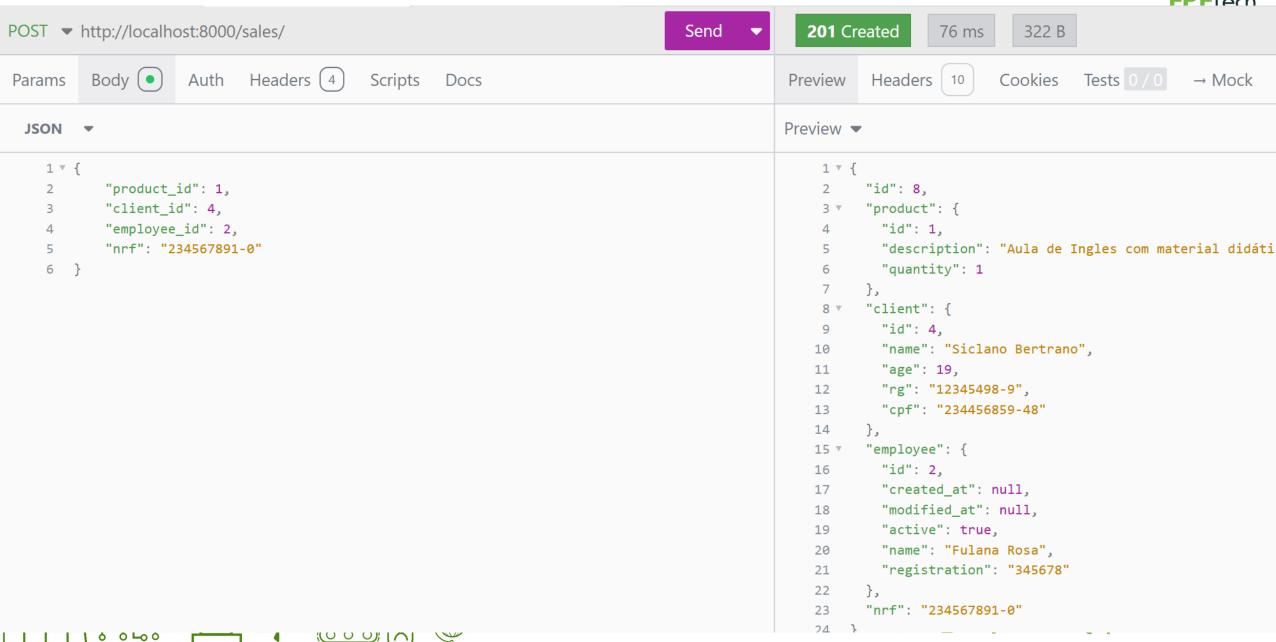






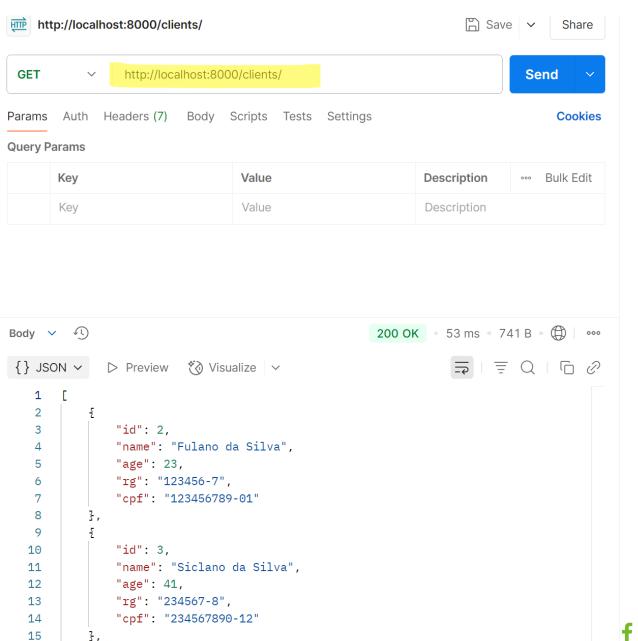
Exemplo POST 'sale' no insomnia





Exemplo GET 'clients' no postman





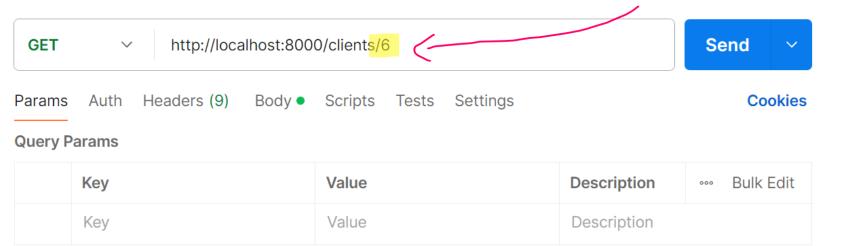
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Exemplo GET 'clients' específico

Usando o id do cliente



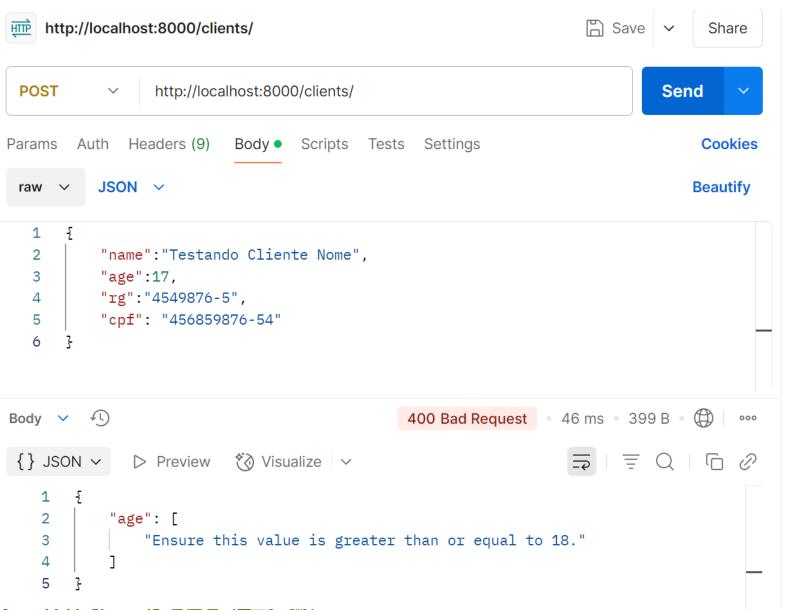
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Exemplo POST 'clients' no postman





Por que deu errado?



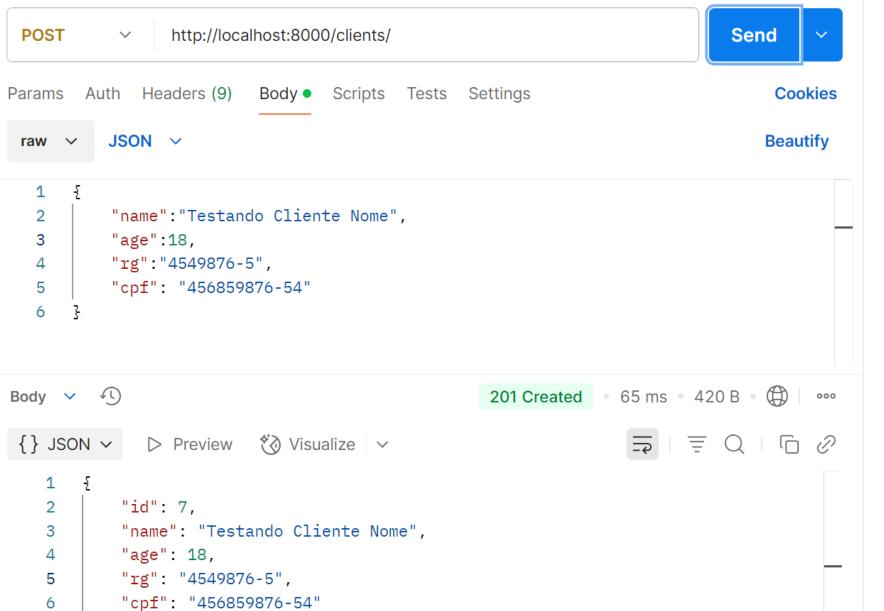






Exemplo POST 'clients' no postman





Agora sim!

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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']











endpoint

urls

from rest_framework.routers import DefaultRouter

router.register(r'mock-users', MockUserViewSet)

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

from django.urls import path, include

from .views import MockUserViewSet

router = DefaultRouter()

urlpatterns = [



viewsets



Serializers JSON=Django



models



request

class MockUserViewSet(viewsets.ModelViewSet): queryset = MockUser.objects.all()

serializer class = MockUserSerializer

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















Obrigadol













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