

# 2TDSOS-2022

## Cap 1 - WebServices em RESTfull

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# Trilhas Cap 1 - WebServices em RESTfull

- **Trilha escolhida** dotnet;
- **Webservice .net6**;
- MVP;
- Autenticações;
- Funcionalidades;
- Github;
- Documentação Swagger
- **Processos e execuções.**

## Objetivo breve sobre o projeto

Conectar pessoas físicas que produzem energia solar com pessoas físicas, viabilizando um modelo de negócios baseado em serviço que permite aos associados gerenciar seus créditos excedentes na produção de energia.

### ***Gerenciamento***

Manipulação dos créditos

### ***Transações***

Venda, Compra, Doações

### ***Lucrativo***

Rentabilidade Energia Gerada

<https://github.com/elioglima/Greenlight>

Projeto no github e também zipado

# Objetivo breve sobre o projeto

<https://github.com/elioglima/Greenlight> - Projeto no github e também zipado

The screenshot displays the GitHub repository page for **elioglima / Greenlight**. The repository is private and has 2 unwatchers, 0 forks, and 0 stars. The main branch is **master**, with 1 branch and 0 tags. The repository was last updated 20 minutes ago by elioglima.

The file list shows the following files and their last commit times:

File	Commit Message	Time Ago
Greenlight	Implementando o postman	24 minutes ago
.editorconfig	Add project files.	12 days ago
.gitattributes	Add .gitattributes and .gitignore.	12 days ago
.gitignore	Add .gitattributes and .gitignore.	12 days ago
Diagrama.vsd	Organizando arquivos	10 days ago
Greenlight.sln	Atualizando nome do projeto	10 days ago
README.md	Update README.md	20 minutes ago

The README.md file is selected, showing the following content:

## Greenlight

Gerenciamento de contratos sobre creditos de energia

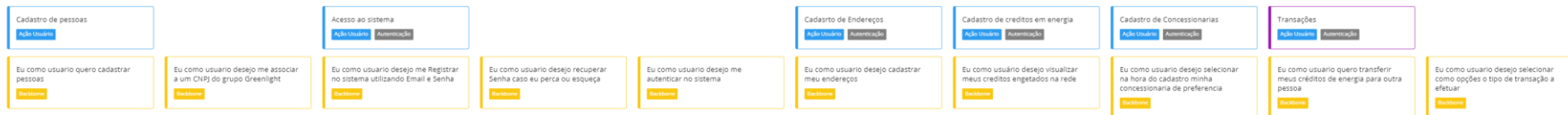
## Migrations Entity

- dotnet ef migrations add InitialCreate
  - para gerar os scripts
- dotnet ef database update InitialCreate

# MVP backlog inicial

FIAP

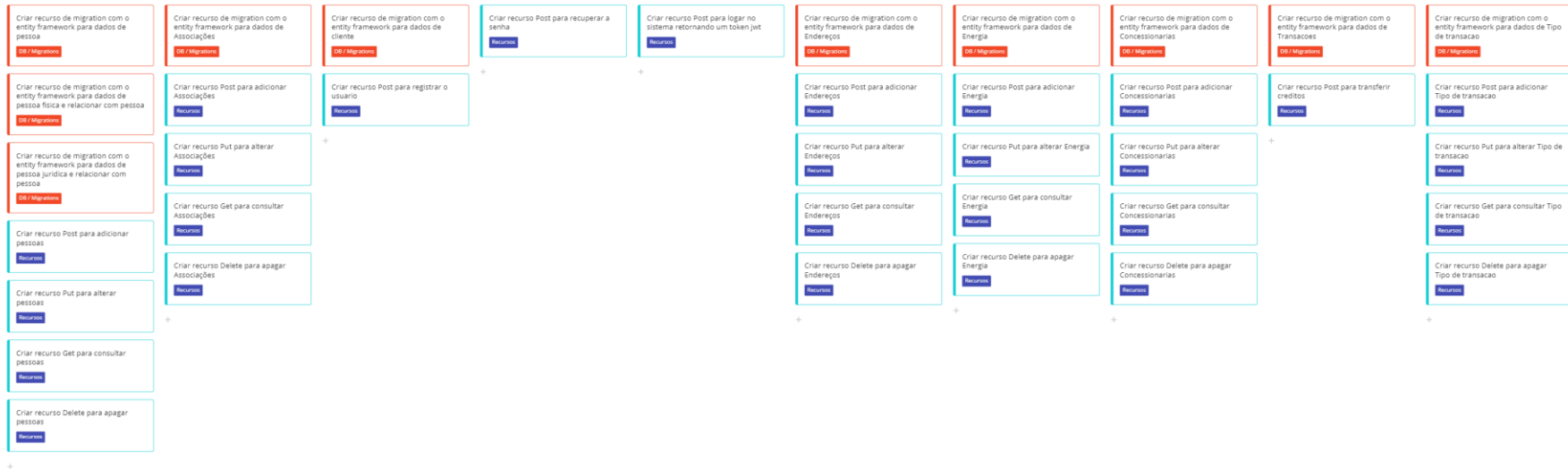
## User Story Map



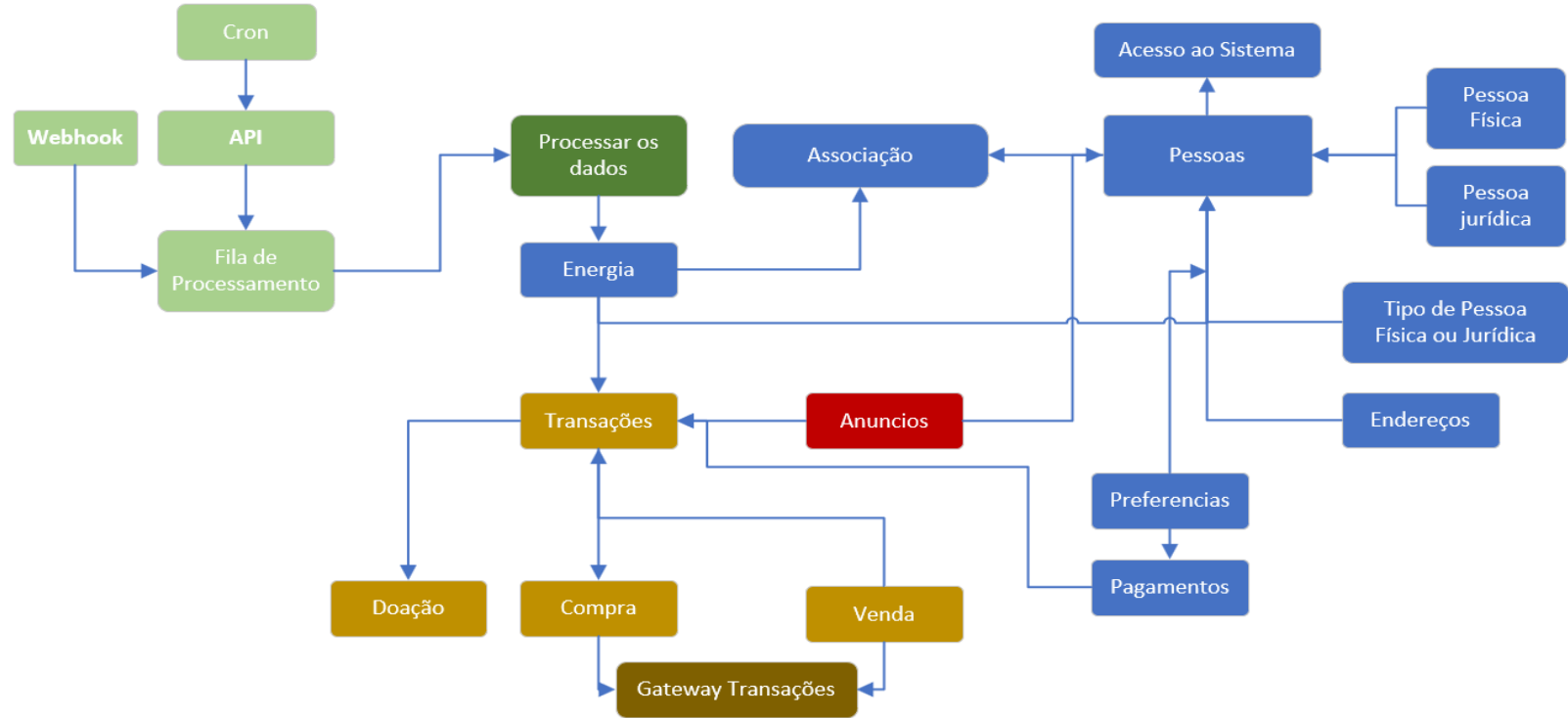
## MVP | 10



## Backlog | 30



# Diagrama estrutura inicial



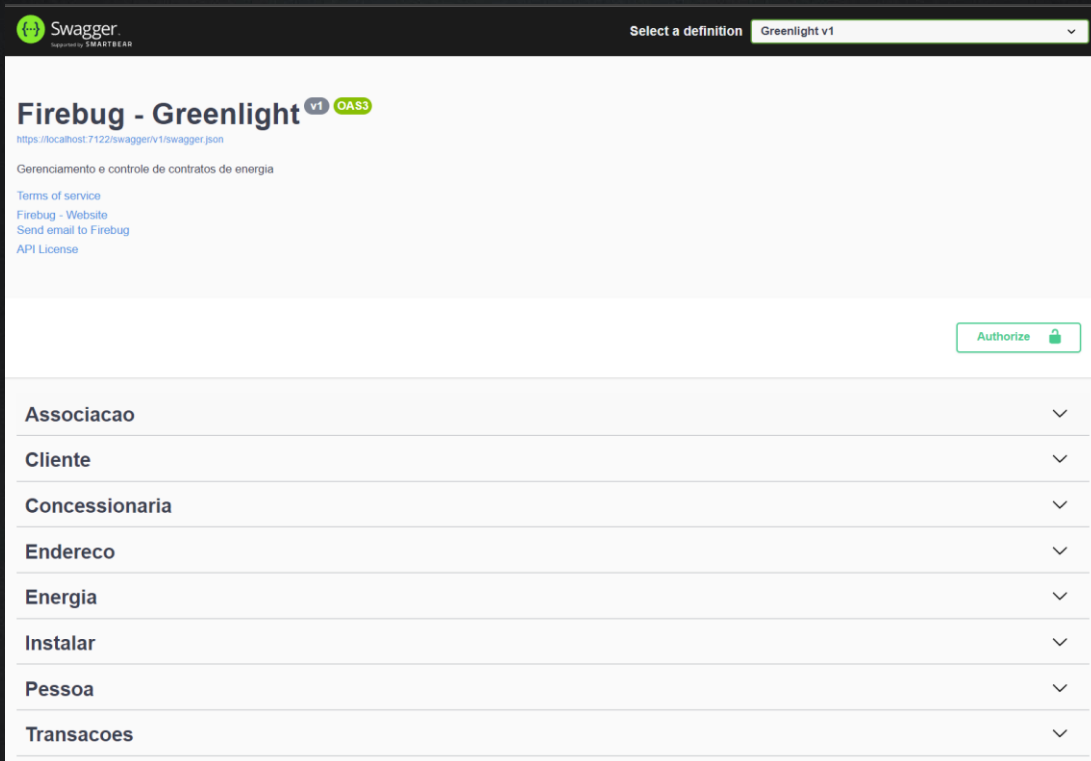
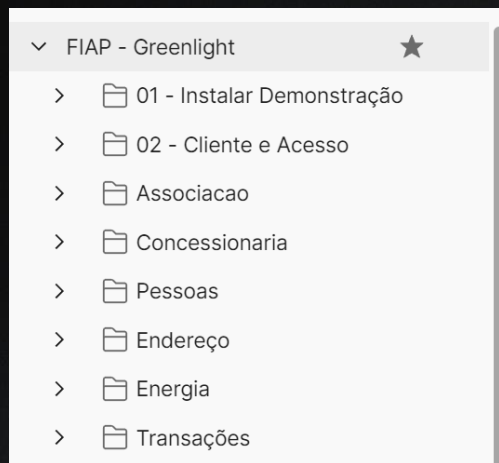


# Execução e testes

FIAP

## Postman

<https://go.postman.co/workspace/Team-Workspace~94f72305-ef8c-48bc-8c11-08812de5fbb3/collection/3890866-54ac84d0-bca5-4a5b-b8c0-c1cd05084d01?action=share&creator=3890866>



# Requisitos do projeto

- Visual Studio ou IDE compatível
- Banco de dados Mysql
- Gerenciador banco Workbanch ou compatível
- Execução dos teste Postman ou Swagger
- Windows, Mac

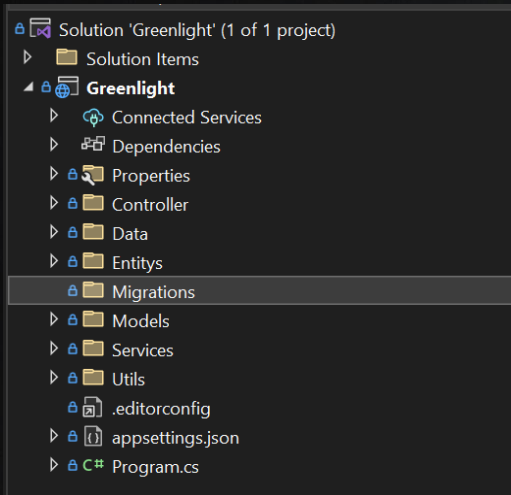
## Configuração appsettings.json

```
{
  "Logging": {
    "LogLevel": {
      "Default": "Information",
      "Microsoft.AspNetCore": "Warning"
    }
  },
  "Jwt": {
    "key": "@c2VuaGEgZGUgYWRtaW4gW6kgZXN0YS8hcXVp@",
    "Issuer": "startup.fiap.com.br",
    "Audience": "http://startup.fiap.com.br"
  },
  "ConnectionStrings": {
    "DefaultConection": "Server=localhost;Port=3306;Database=greenlight_db;Uid=root;Pwd=Acesso@01;"
  },
  "AllowedHosts": "*"
}
```

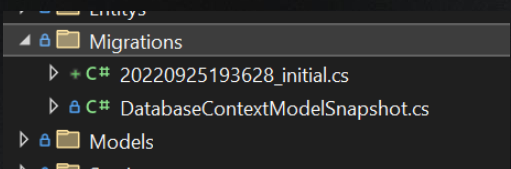


# Instalação do projeto

## Estrutura do projeto;



## Pasta dos mirations



## Gerando migrations

```
elioid Greenlight master -3 dotnet ef migrations add initial
Build started...
Build succeeded.
info: Microsoft.EntityFrameworkCore.Infrastructure[10403]
      Entity Framework Core 6.0.9 initialized 'DatabaseContext' using provider 'Pomelo.En
Done. To undo this action, use 'ef migrations remove'
elioid Greenlight master +2 -2 cd .\api-tmov-pay\^C
elioid Greenlight master +2 -2 dotnet ef database update Initial
```

## Atualizando o banco de dados

```
Developer PowerShell
+ Developer PowerShell
Executed DbCommand (14ms) [Parameters=[], CommandType='Text', CommandTimeout='30']
CREATE INDEX `IX_Pessoa_AssociacaoId` ON `Pessoa` (`AssociacaoId`);
info: Microsoft.EntityFrameworkCore.Database.Command[20101]
      Executed DbCommand (7ms) [Parameters=[], CommandType='Text', CommandTimeout='30']
      CREATE UNIQUE INDEX `IX_File_PessoaFisica` ON `PessoaFisica` (`Id`);
info: Microsoft.EntityFrameworkCore.Database.Command[20101]
      Executed DbCommand (7ms) [Parameters=[], CommandType='Text', CommandTimeout='30']
      CREATE INDEX `IX_Transacoes_AssociacaoId` ON `Transacoes` (`AssociacaoId`);
info: Microsoft.EntityFrameworkCore.Database.Command[20101]
      Executed DbCommand (6ms) [Parameters=[], CommandType='Text', CommandTimeout='30']
      CREATE INDEX `IX_Transacoes_EnergiaId` ON `Transacoes` (`EnergiaId`);
info: Microsoft.EntityFrameworkCore.Database.Command[20101]
      Executed DbCommand (5ms) [Parameters=[], CommandType='Text', CommandTimeout='30']
      CREATE INDEX `IX_Transacoes_PessoaId` ON `Transacoes` (`PessoaId`);
info: Microsoft.EntityFrameworkCore.Database.Command[20101]
      Executed DbCommand (5ms) [Parameters=[], CommandType='Text', CommandTimeout='30']
      CREATE INDEX `IX_Transacoes_TipoTransacaoId` ON `Transacoes` (`TipoTransacaoId`);
info: Microsoft.EntityFrameworkCore.Database.Command[20101]
      Executed DbCommand (1ms) [Parameters=[], CommandType='Text', CommandTimeout='30']
      INSERT INTO `__EFMigrationsHistory` (`MigrationId`, `ProductVersion`)
      VALUES ('20220925193628_initial', '6.0.9');
Done.
```

# Instalação do projeto

FIAP

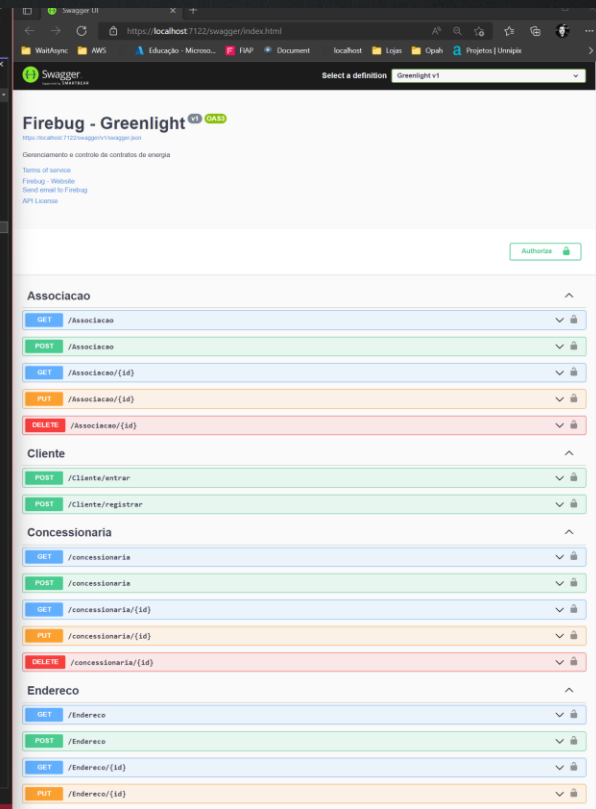
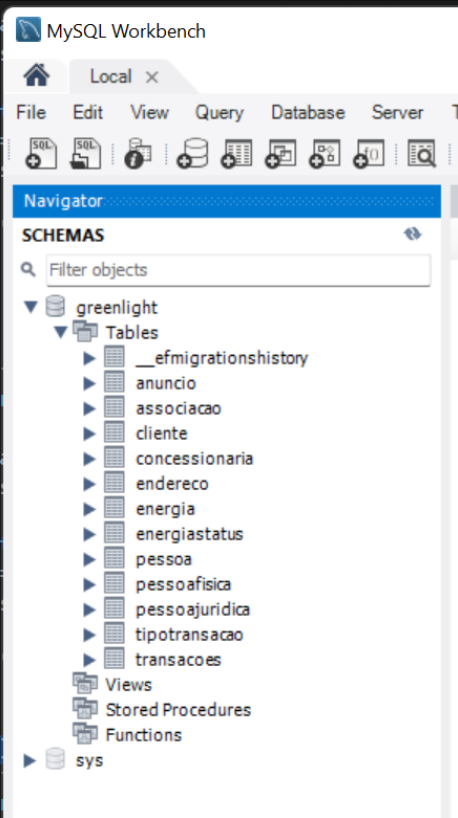
## Instalando dados de demonstração

The screenshot displays the FIAP - Greenlight API client interface. The left sidebar shows a tree view of the project structure, with the following items:

- FIAP - Greenlight
  - 01 - Instalar Demonstração
    - POST Instalar base demonstração**
  - 02 - Cliente e Acesso
  - Associação
  - Concessionária
  - Pessoas
  - Endereço
  - Energia
  - Transações
  - Todos os serviços.

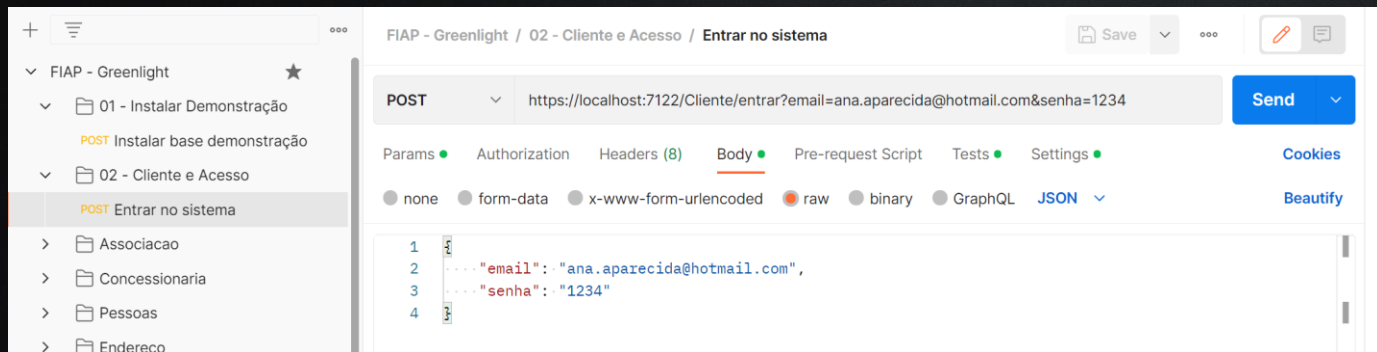
The main panel shows the details of the selected endpoint: **POST** `{{serverName}}/Instalar`. The request body is set to `none`. The response is displayed in the **Body** tab, showing a successful status **200 OK** with a response time of **8.70 s** and a size of **186 B**. The response body is:

```
"mensagem": "Instalacao bem sucedida"
```



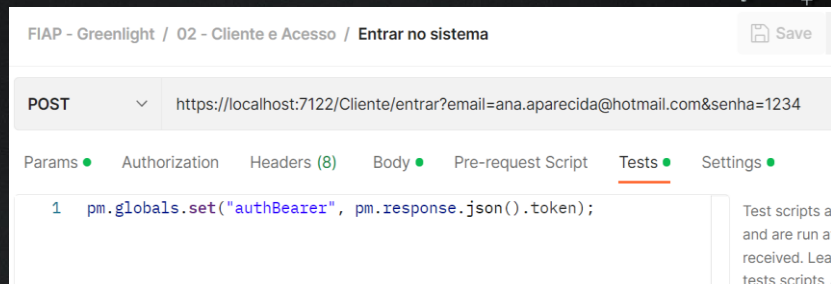
# Testando o projeto

FIAP



```
{
  "email": "ana.aparecida@hotmail.com",
  "senha": "1234"
}
```

## Disponibilizando token para utilização





## Available authorizations



### Bearer (apiKey)

JWT Authorization header using the Bearer scheme. Enter 'Bearer'[space].Example: 'Bearer 1234abdcef'

Name: Authorization

In: header

Value:

Bearer eyJhbGciOiJIUzI1NiIs

Authorize

Close



[illegible]

Pessoa

GET

/pessoa

POST

/pessoa

GET

/pessoa/pessoa/fisica

Parameters

No parameters

Cancel

Execute

Clear

Responses

curl -X GET \

"https://localhost:7122/pessoa/pessoa/fisica" \

-w "%{httpcode}:"

"%{http\_header}:"

"%{url}" \

-s

"http://localhost:7122/pessoa/pessoa/fisica"

Request URL

https://localhost:7122/pessoa/pessoa/fisica

Server response

Code

Details

200

Response body

```
{
  "id": 1,
  "nome": "Ana Aparecida de Silva",
  "cpf": "7742414100",
  "dataNascimento": "1979-11-04T00:00:00",
},
{
  "id": 2,
  "nome": "Roberto Almeida de Oliveira",
  "cpf": "8036230300",
  "rg": "189101375",
  "dataNascimento": "1979-11-04T00:00:00"
}
```

Download

Response headers

```
content-type: application/json; charset=utf-8
date: Sun, 29 Sep 2023 22:42:11 GMT
server: Kestrel
```

Responses

Code

Description

Links

200

Success

No links

Media type

text/plain

Controls Accept header

Example Value | Schema

()

GET

/pessoa/pessoa/juridica



### Transacoes

POST

/pessoa/transferir

Parameters

Cancel

Name	Description
energiald	<input type="text" value="1"/>
<small>Integer(\$int32) (query)</small>	
enderecold	<input type="text" value="2"/>
<small>Integer(\$int32) (query)</small>	

Execute

Responses

Code	Description	Links
200	Success	No links

Media type

text/plain

Controls Accept header

Example Value | Schema

()

Obrigado!

Estamos prontos para maiores esclarecimentos

FIAP

