

FeignClient

Spring Cloud

Acesso à APIs Externas dentro de um projeto SpringBoot



Project

- Gradle - Groovy

☐ Gradle - Groovy ☐ Gradle - Kotlin

- Maven

Language

- Java

- Kotlin

- Groovy

Spring Boot

○ 3.4.0 (SNAPSHOT)

○ 3.4.0 (M3)

○ 3.3.5 (SNAPSHOT)

● 3.3.4

- 3.2.11 (SNAPSHOT)

○ 3.2.10

Project Metadata

Group com.example

Artifact demo

Name demo

Description	Demo project for Spring Boot
-------------	------------------------------

Package name com.example.demo

Packaging ☒ Jar ☐ War

Java ○ 23 ○ 21 ● 17

Dependencies

ADD DEPENDENCIES... CTRL + B

OpenFeign

SPRING CLOUD ROUTING

Declarative REST Client. OpenFeign creates a dynamic implementation of an interface decorated with JAX-RS or Spring MVC annotations.

GENERATE CTRL + ↵

EXPLORE CTRL + SPACE

SHARE...



Na Classe principal

@EnableFeignClients

@SpringBootApplication

public class....

Criar um interface FeignClient

@Component

@FeignClient (name= "projetoX", url="localhost:8080", path= "/listar")

public interface ProjetoFeignClient{

 @GetMapping (value=("/{id}"))

 public ResponseEntity<Projeto> findById(@PathVariable Long id);

}

Dentro do Service...

Injetar a dependência do ProjetoFeignClient no construtor

E depois é só chamar o objeto feignClient dentro do service como se fosse uma chamada ao repository

....

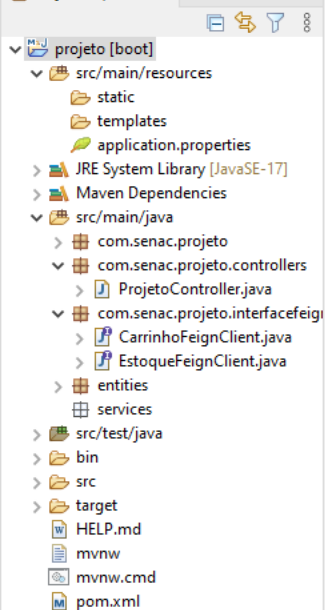
.

```
Projeto projeto = projetoFeignClient.findById(id).getBody();
```

...



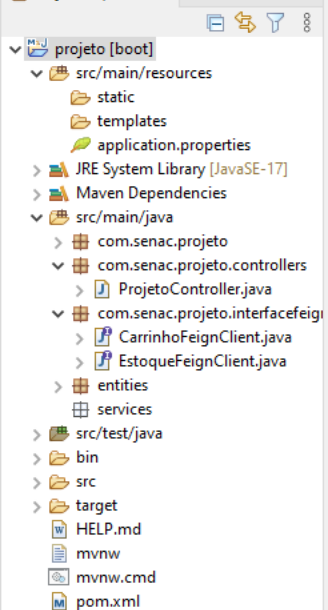
Project Explorer x ProjetoApplication.java x ProjetoController.java EstoqueFeignClient.java CarrinhoFeignClient.java CarrinhoDTO.java ItemCarrinhoDTO.java



```
1 package com.senac.projeto;
2
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplication;
5 import org.springframework.cloud.openfeign.EnableFeignClients;
6
7 @EnableFeignClients
8 @SpringBootApplication
9 public class ProjetoApplication {
10
11     public static void main(String[] args) {
12         SpringApplication.run(ProjetoApplication.class, args);
13     }
14
15 }
16
```

Problems @ Javadoc Declaration Console x

projeto - ProjetoApplication [Spring Boot App] [pid: 57472]

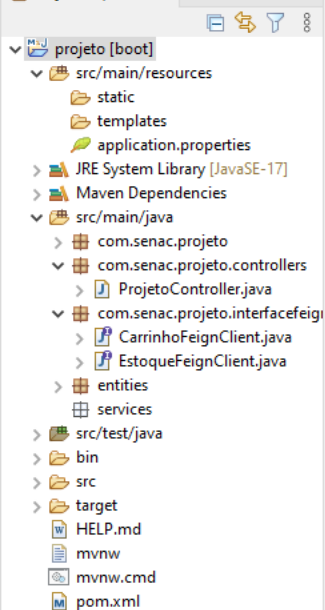


```
10 import com.senac.projeto.interfacefeign.CarrinhoFeignClient;
11
12 import entities.CarrinhoDTO;
13
14 @RestController
15 @RequestMapping()
16 public class ProjetoController {
17
18     @Autowired
19     CarrinhoFeignClient carrinhoFeignClient;
20
21
22     @GetMapping()
23     @CrossOrigin(origins="*")
24     public ResponseEntity<CarrinhoDTO>listarProjetos(){
25         return ResponseEntity.ok(carrinhoFeignClient.findById(1).getBody());
26     }
27 }
28
```

Permite acesso ao endpoint desde outro computador



Project Explorer × ProjetoApplication.java ProjetoController.java EstoqueFeignClient.java CarrinhoFeignClient.java CarrinhoDTO.java ItemCarrinhoDTO.java



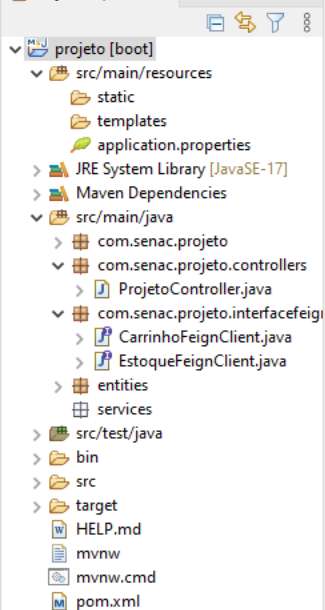
```
1 package com.senac.projeto.interfacefeign;
2
3 import org.springframework.cloud.openfeign.FeignClient;
4 import org.springframework.stereotype.Component;
5
6 @Component
7 @FeignClient(name="catalogoProdutos", url="10.136.36.87:8080", path="/estoque")
8 public interface EstoqueFeignClient {
9
10 }
11
```

Nome do projeto java da API remota

Endereço e porta do servidor API

Problems @ Javadoc Declaration Console ×

projeto - ProjetoApplication [Spring Boot App] [pid: 57472]



```
1 package com.senac.projeto.interfacefeign;
2
3 import org.springframework.cloud.openfeign.FeignClient;
4 import org.springframework.http.ResponseEntity;
5 import org.springframework.stereotype.Component;
6 import org.springframework.web.bind.annotation.GetMapping;
7 import org.springframework.web.bind.annotation.PathVariable;
8
9 import entities.CarrinhoDTO;
10
11 @Component
12 @FeignClient(name="grupo1.carrinhodecompra", url="10.136.36.167:8080", path="/api/carrin
13 public interface CarrinhoFeignClient {
14     @GetMapping (value=("/{id}")
15     public ResponseEntity<CarrinhoDTO> findById(@PathVariable int id);
16
17 }
18
```

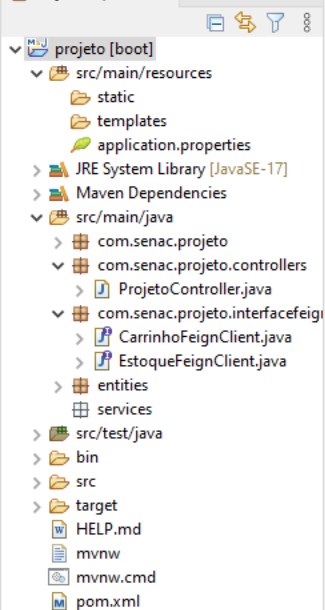
Nome do projeto java da API remota

Endereço e porta do servidor API

Estrutura de chamada do endpoint



Project Explorer ×

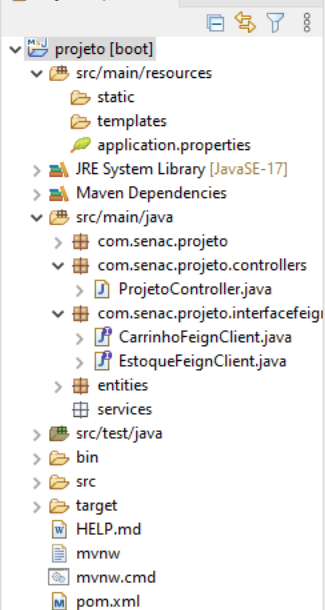


ProjetoApplication.java ProjetoController.java EstoqueFeignClient.java CarrinhoFeignClient.java CarrinhoDTO.java × ItemCarrinhoDTO.java

```
4 import java.time.LocalDateTime;
5 import java.util.List;
6
7 public class CarrinhoDTO {
8
9     private int id;
10    private LocalDateTime dataCriacao;
11    private int status;
12    private BigDecimal valorTotal;
13    private long usuarioId;
14    private List<ItemCarrinhoDTO> itens;
15
16    // Getters e Setters
17    public int getId() {
18        return id;
19    }
20
21    public void setId(int id) {
22        this.id = id;
23    }
```

Problems @ Javadoc Declaration Console ×

projeto - ProjetoApplication [Spring Boot App] [pid: 57472]



```
1 package entities;
2
3 public class ItemCarrinhoDTO {
4
5     private Integer id;
6     private Integer quantidade;
7     private Long produtoId;
8
9     // Getters e Setters
10    public Integer getId() {
11        return id;
12    }
13
14    public void setId(Integer id) {
15        this.id = id;
16    }
17
18    public Integer getQuantidade() {
19        return quantidade;
20    }
21 }
```