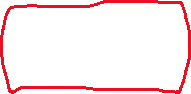
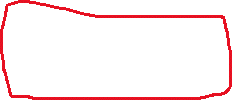
Student-service Address-service



How to call address-service in student-service?

Ans:- we can use rest template but not recommended.

* Recommended to use **web client, Open Feign**

To use **web client** we should do below things

1, import below dependency in to student-service

**<dependency>**

**<groupId>org.springframework.boot</groupId>**

**<artifactId>spring-boot-starter-webflux</artifactId>**

**<version>3.0.2</version>**

**</dependency>**

**2, write url of address-service in to student-service application.properties**

address.service.url = <http://localhost:8082/api/address>

3, create WebClient Bean in student-service main class

*@Value*("${address.service.url}")

private String addressServiceUrl;

*@Bean*

public WebClient webClient() {

WebClient webClient = WebClient.*builder*().baseUrl(addressServiceUrl).build();

return webClient;} }

4, autowired in student-service @Service class or we can use wherever we want in student-service. create method and call address-service like below code.

*@Autowired*

WebClient webClient;

//call address from address-service by addressId

public AddressResponse getAddressById(long addId) {

Mono<AddressResponse> addResponse =

webClient.get().uri("/service/"+addId).retrieve().bodyToMono(AddressResponse.class);

return addResponse.block();

}

To use **Open Feign** we should do below things:- its easy and declarative way.

1, import below dependency in student-service pom.xml

<**dependency**>

<**groupId**>org.springframework.cloud</**groupId**>

<**artifactId**>spring-cloud-starter-openfeign</**artifactId**>

<**version**>3.1.3</**version**>

</**dependency**>

2, create interface file in student-service and then put address controller methods signature. like below

*@FeignClient*(url="${address.service.url}", value="address-feign-client", path="/api/address")

public interface AddressFeignClient {

*@PostMapping*("/service")

public AddressResponse saveOrUpdate(*@RequestBody* AddressResponse addressRequest) ;

*@GetMapping*("/service/{id}")

public AddressResponse getAddressById(*@PathVariable* long id);

*@DeleteMapping*("/service/{id}")

public AddressResponse deleteById(*@PathVariable* long id) ;

}

3, authowired Address feign interface wherever place in student-service project. Its really easy😊

*@Autowired*

AddressFeignClient addressFeign;