spring-cloud-gateway-example (0.0.1)

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Travis CI status: [Build Status]

Chapter 1. Introduction

Migrate monolithic app into micro-services with awesome Spring projects!

Read reference documentation for details

gradle

```
./gradlew
java -jar build/monolith/libs/*.jar
bash build/libs/monolith/*.jar

./gradlew build composeUp
./gradlew composeDown
```

links:

- additional hibernate generators
- Thymeleaf getting ready for Reactive Spring 5
- YouTube: Thymeleaf by Daniel Fernández
- Motivated by that Spencer Gibb talk on YouTube: Introducing Spring Cloud Gateway by Spencer Gibb @ Spring I/O 2018
- YouTube: Mastering Spring Boot's Actuator by Andy Wilkinson @ Spring I/O 2018

generated by generator-jvm yeoman generator (java-spring-boot)

Chapter 2. Implementation

2.1. props

This module contains all apps props, such as applications url, port, host, etc...

configurations example file: `application-props.yaml`

```
spring:
  profiles:
    active: props
props:
  monolith:
    proto: http
    host: 127.0.0.1
    port: 8001
    url: ${props.monolith.proto}://${props.monolith.host}:${props.monolith.port}
  gateway:
    proto: http
    host: 127.0.0.1
    port: 8002
    url: ${props.gateway.proto}://${props.gateway.host}:${props.gateway.port}
```

2.2. step 0: monolith

This is a zero step. We will try migrate that monolith app, which is contains: `ui` and few `rest api data` modules into micro-services apps.

Monolith server is using port: 8001

2.3. step 1: gateway

This is a first step in micro-services migration process. First of all we need create entry point of our future system — application gateway. Gateway will forward any requests to proper services of your system.

Gateway server is using port: 8002

gateway routes configuration:

```
  final PropsAutoConfiguration.Props props;

  @Bean
  RouteLocator msRouteLocator(RouteLocatorBuilder builder) {
    return builder
        .routes()

        /*
        // step 1.1: forward everything to monolith app
        .route("monolith", p -> p
            .path("/**")
            .uri(props.getMonolith().getUrl()))
        */

        // step 1.2: oops, gateway actuator endpoints should respond by themselves,
but not with monolith's...
        .route("self-actuator", p -> p
            .path("/actuator/**")
            .negate()
            .uri(props.getMonolith().getUrl()))

        .build();
  }
```

this configuration shows how we can forward every request to monolith (except itself actuator requests)

Chapter 3. Links

- GitHub repo
- GitHub pages