Microservices lab 3

Lab 2 correction example

https://github.com/clemstoquart/spring-boot-sample

Goals

1. Finish lab 2
2. Run your microservices into containers
3. Create a pretty web interface

Steps

In order to run your app into a container you have to :

- Install Docker
- Create the description file of your image. This file is called a Dockerfile.
- Build your image by running the following command :
    - `docker build -t <image_name> .`
- Check that your image has been created properly :
    - `docker images`
- You can see a container has an instance of an image. Now it's time to create and run your container :
    - `docker run -it -p8080:8080 --rm <image_id>`

But there's another way :

- Install Docker
- Add a Gradle plugin Google jib
- Configure it and run in order to build the image :
    - `./gradlew jibDockerBuild`
- You can now run your container as described above

NB: running a docker run command for each of your services, databases,... isn't very convenient. In order to start an entire stack there's a common tool called Docker compose.

Build a nice web interface that's consuming your REST api :

- You can use React, Angular,...
- I recommend you to use an UI framework like Material or Bootstrap