What is it restful?

Building REST services with Spring

REST has quickly become the de-facto standard for building web services on the web because they’re easy to build and easy to consume.

Why REST? REST embraces the precepts of the web, including its architecture, benefits, and everything else.

What benefits? The web and its core protocol, HTTP, provide a stack of features:

Suitable actions (GET, POST, PUT, DELETE, …​)

Caching

Redirection and forwarding

Security (encryption and authentication)

So building on top of HTTP, REST APIs provide the means to build flexible APIs that can:

Support backward compatibility

Evolvable APIs

Scaleable services

Securable services

A spectrum of stateless to stateful services

In implementation

Backend – Spring -boot

Integration/ Data layer (entity models and repository)

Application/ Service layer (contains logic)

Web layer (RESTful Evaluation controller)

Frontend – Angular

• Angular MVC Framework by Google

• Component based

• Main programming Language is Typscript

• Own structure

• CSS (Design the Gui)

• Angular Material Design

In testing

We have tested our application with different tests:

• JUNIT is used as the main testing tool that automates the testing process.

• Checklist to check if we have all function we need in UI.

• Postman to test crud operation in controller

2 Feasibility

2.1 Technical Feasibility

This project is a web-based application. The main technologies and tools

That are associated with it are

• HTML

• CSS

• TYPESCRIPT

• JAVA

• SPRING-BOOT

• ANGULAR

• POSGRES

• INTELIJ IDEA

• GIT

• Diagram drawing tools

▪ Gliffy

2.2 Financial Feasibility

Being a web application CER will have a hosting cost.

2.3 Resource and Time Feasibility

• Laptop(programming device)

• Hosting

• Programming tools

It’s clear that the project CER required resources.