CODING CHALLENGE

PRODUCT CREATION

CHALLENGE

- Following the basic architecture principles :
  - ARCHITECT SOLUTIONS IN A WAY THAT MAKES THEM **RE-USABLE** .
  - COMPONENTS ARE **DESIGNED TO SCALE** BASED ON INCOMING LOAD.
  - ALWAYS CARE ABOUT **DATA & IT SECURITY**
  - **DESIGN FOR FAILURE**– YOUR SOLUTION HAS TO ASSUME AND HANDLE EXCEPTION CONDITIONS
- We want to create a service that given an origin city will return a list of itineraries , one based in the less number of connections and the second based in the less time. For that you will have to implement a couple of microservices :
  - Implement an API in order to expose the data related with a city defined with : city, destiny city, departure time, arrival time, stored in a data base . You can choose it .
  - Implement a Restful service that will consume the previus API in order to calculate the sortest way(in time and in connections) to travel from one city to another , independent of the departure time .
- Using the Java framework of your choice (ideally use Spring Boot) and Java8.

WHAT WE EXPECT FROM YOU

- Implement this application following a microservice approach .
- Run each microservice in a different docker container linking them with any docker technology.
- Create a README.md explaining how to build/run/use the app naming every framework/library you use and state what it does andwhy you used it.
- Every person having Java and some standard tools (Ant, Maven, Gradle) should be able to check out the code, build and run the app locally.
- Provide API documentation , API Bluprint , swagger or similar
- Please use english as documentation language.
- BONUS 1 : Secure your API
- BONUS 2 : Implement the solution using Spring Cloud.
- BONUS 3 : Create a slide explaining your pipeline proposal for the application.
- When you're done check in your solution into any public GIT repo hoster (github, bitbucket, etc.) and send us the link and any otherdocumentation you want.