

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.