

Backend Programming: Project 4 Final Part

Shipping Company

Using Micro-services

1. Project Description:

Your work is to design and implement a REST API, using Spring Boot microservices to update the data of your shipment, and get the results, as a complement to your project 2, or/and 3, that allow the user to do the following:

- 1-** You can add the shape and the number of the products, and sizes of the boxes, by using REST API, using the following link:

YourprojectName/products/{data} using POST methods

- 2-** You can get all the added data, by using REST API, using the following link:

YourprojectName/products using GET methods

- 3-** You can get the data of a single product by searching a product name, by using REST API, using the following link:

YourprojectName/products/{productName} using GET methods

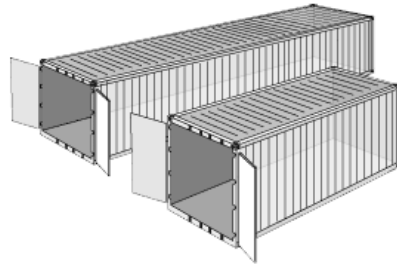
4- (Optional) add delete and update methods

- 5-** The user can see the shipping data using REST API using the following link:

YourprojectName/shipping using GET methods

You have at the same time 2 different shipping options:

- 1- Small Container with 2.59m height, 2.43 m wide, and 6.06 m length.
- 2- Big Container with 2.59m height, 2.43 m wide, and 12.01 m length.



The containers sizes and costs can be preprogramed, or can be also modified in the GUI (Optional),

Where:

- The shipping cost for big container is 1800 Euro whatever the shipment weight is.
- The shipping cost for small container 1000 Euro for 500 kg or less, and 1200 Euro for weight more than 500kg.

The GUI, will show the results of the best program that calculate the **best**

Notes:

- 1- The work is **Group** work, each group has to submit the solution within the time frame, any failed of submission in the deadline, he will get zero.
- 2- Please save your Homework compressed file according:

Backend-FE-GroupNames.zip

if you have several documents, or saved as pdf file if it is a single file.

- 3- Please submit your homework as zip file before 12 July 12:00 PM using the team upload link in your account (One Team member upload is sufficient)
- 4- Nonworking program or fail in submission on time will get zero.
- 5- Please upload you report or the file in the assignment under your name in **MsTeam**
- 6- **The final presentation will be on 13 of July at 10:00AM**
- 7- **Not showing in the presentation will be fail the course.**

Good Luck

Prof. Dr. Rand Kouatly