API REST solution to store data in memory

Content

Additional scripts:	1
Project scaffold:	
To run project:	
To run TESTS:	
To test the API in POSTMAN	
Other tests with POSTMAN:	
Example of Java 8 expressions used in the project:	4

Additional scripts:

1- JSON to import a collection to POSTMAN with all the API endpoints.



Musala collection.postman_collection.json

Project scaffold:

restservice [boot] [devtools]

- src/main/java
- - →

 ⊕ controller
 - >

 GatewayController.java
 - > PeripheralController.java
 - √

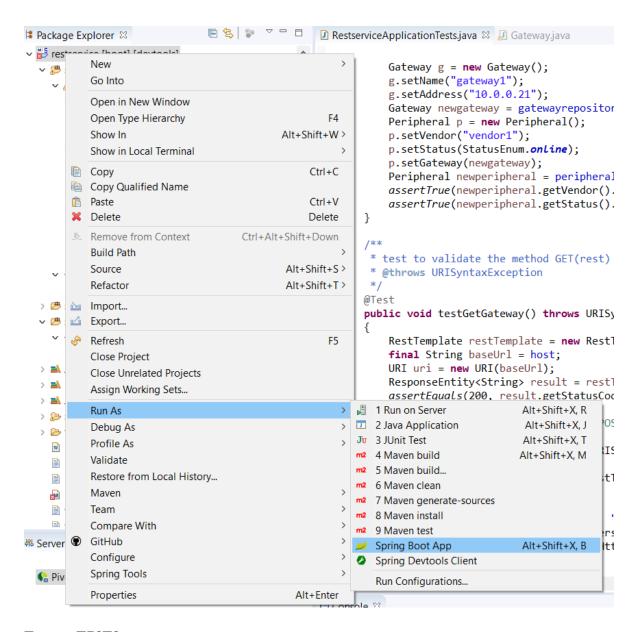
 Æ model
 - > 🕖 Gateway.java
 - > 🕖 Peripheral.java
 - > 🗗 StatusEnum.java
 - √

 ⊕ repository
 - > 🗗 IGatewayRepository.java
 - > IPeripheralRepository.java
 - > RestserviceApplication.java
- →

 ⊕ exception
 - > CustomResponseException.java
- src/main/resources
- src/test/java
- →

 ⊕ com.musala.restservice
 - RestserviceApplicationTests.java

To run project:



To run TESTS:

Right click inside the class:

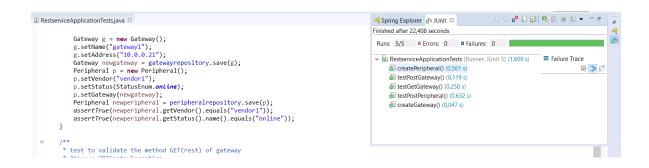


RestserviceApplicationTests.java

```
Declarations
public void testPostGateway() throws URISyntaxException
                                                                                           Add to Snippets...
     RestTemplate restTemplate = new RestTemplate():
                                                                                                AspectJ Refactoring
     final String baseUrl = host;
                                                                                                Run As
    URI uri = new URI(baseUrl);
Gateway gateway = new Gateway(null, "g1", "10.0.0.1", n
HttpHeaders headers = new HttpHeaders();
HttpEntity<Gateway request = new HttpEntity<(gateway,
                                                                                                Debug As
                                                                                                                                                                Run Configurations.
```

Thera are 4 tests to evaluate the correct functioning of the program:

- 1-createPeripheral (test to validate the peripheralRepository method save peripheral)
- 2-testPostGateway (test to validate the Gateway method POST(rest) running one gateway insertion)
- 3-testGetGateway (test to validate the method GET(rest) of gateway)
- 4-createGateway (test to validate the gatewayRepository method save gateway)



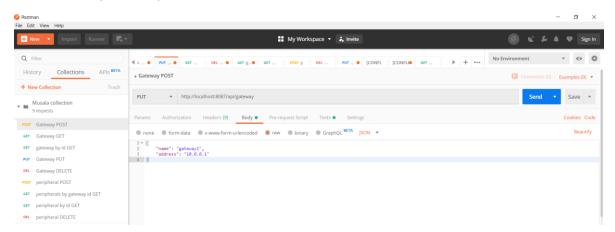
To test the API in POSTMAN

1-import collection file to POSTMAN

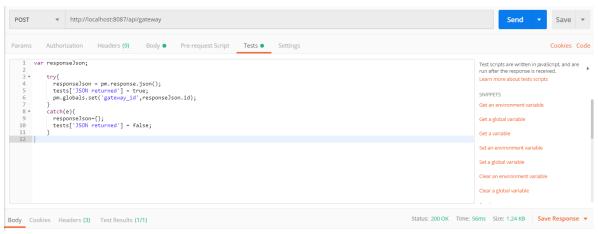


Musala collection.postman_collection.json

2-execute endpoints requests



Other tests with POSTMAN:



Example of Java 8 expressions used in the project: