Solution for Gateway project

Content

Introduction

This is the solution for the project “Gateway” and has been made using this environment.

OS: Windows 10.

Spring Boot Version: 2.4.0

Java: 1.8

In Memory DB: H2, Very fast, open source, Small footprint: around 2 MB jar file size.

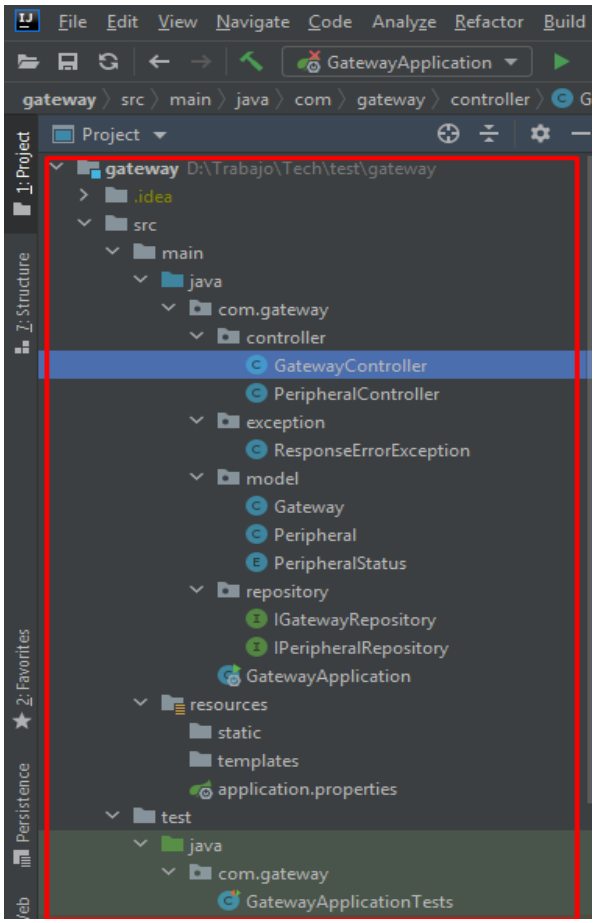
IDE: IntelliJIDEA: 2020.2

Project Structure

-Model: include Gateway and Peripheral classes and also PeripheralStatus enum.

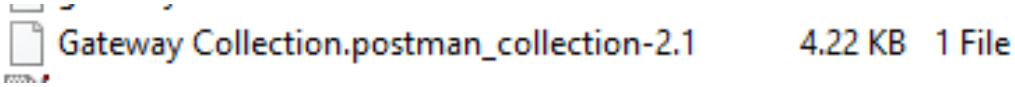
-Repository: include IGatewayRepository and IPeripheralRepository.

-Controller: include GatewayController and PeripheralController



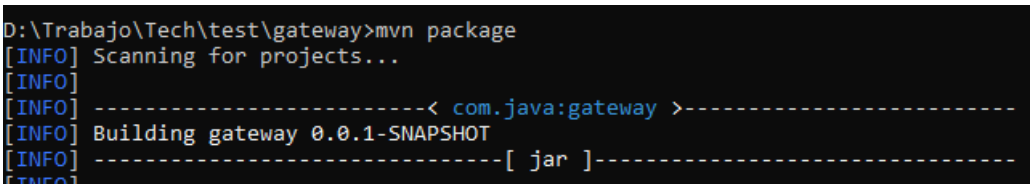
Resources

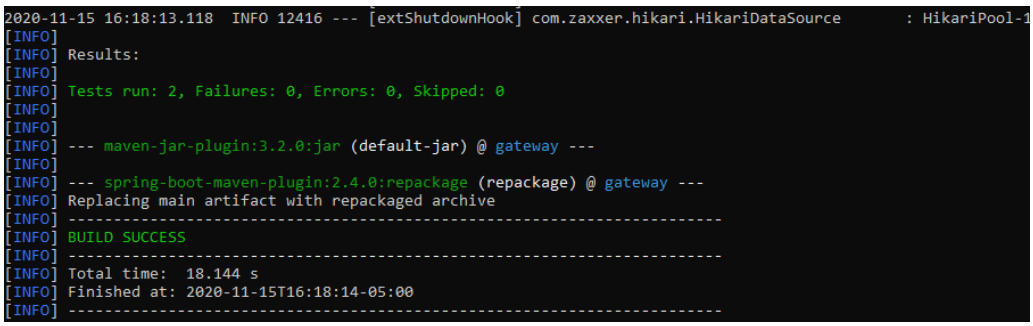
1. Using H2 database there is not additional script to create database.
2. To test Gateway API please import the Postman collection with all endpoint and data.



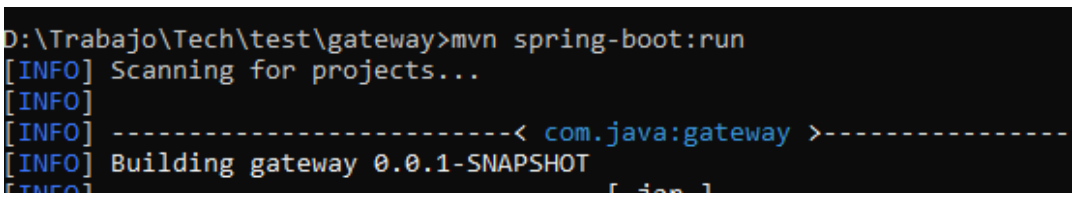
Steps to Run the project

1. Go to the project folder and extract the zip file.
2. Open a console and go to the project folder
3. Run the command **mvn package** this step also run 2 internal tests





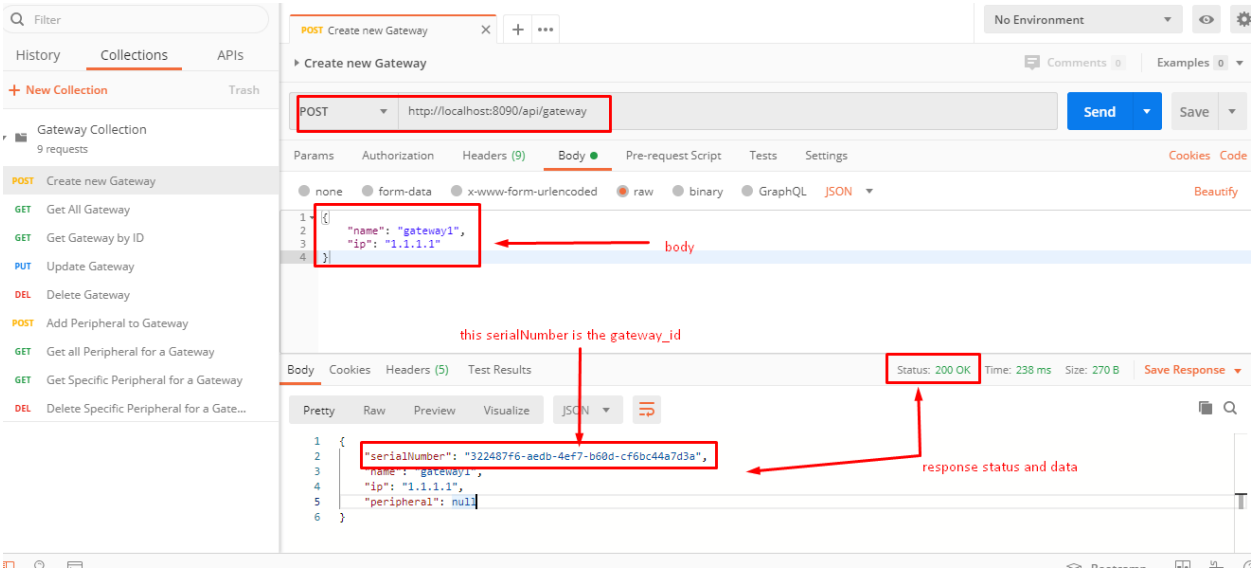
4. Run the command **mvn spring-boot:run**



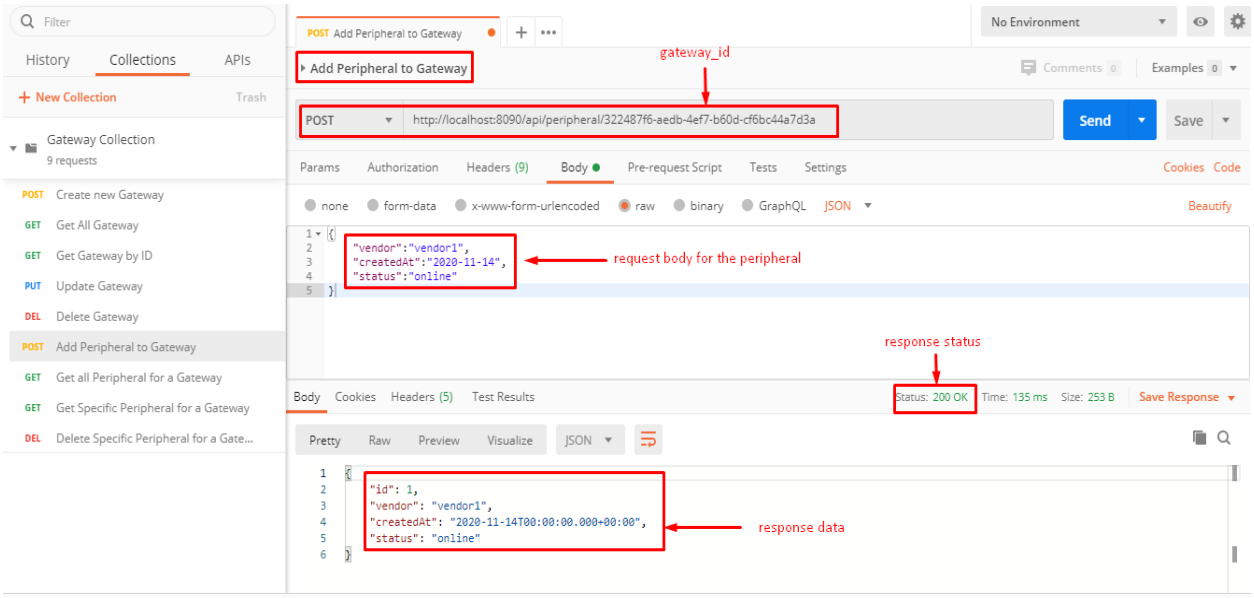
Steps to Test the project

After the project is running and postman has the Gateway collection imported then procced to test endpoints, in this doc only is included few tests.

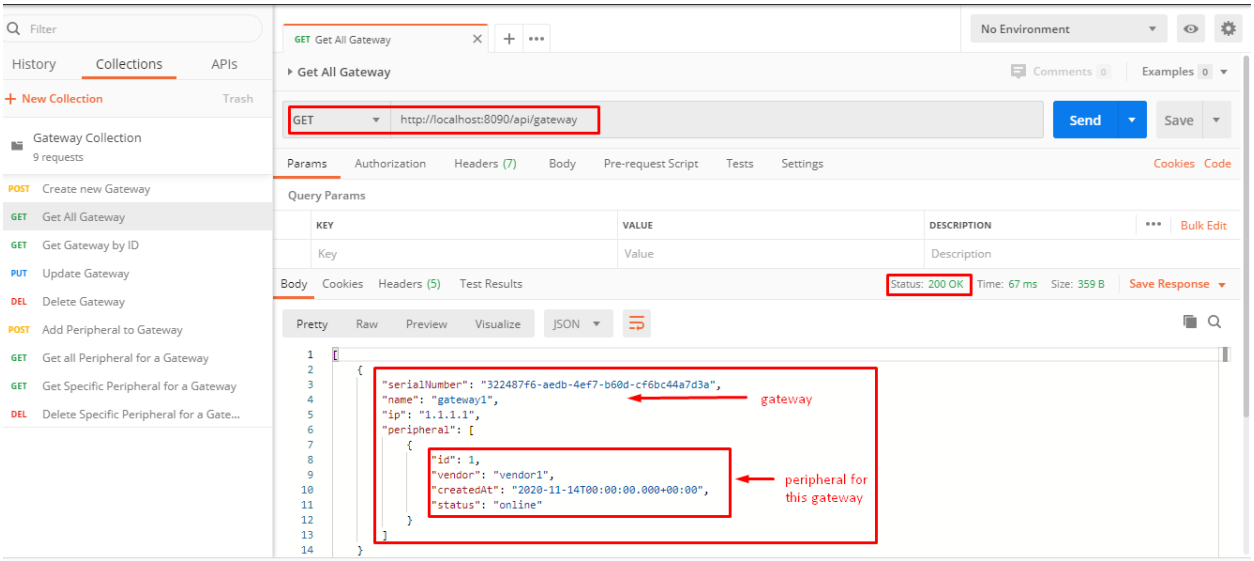
1-Create new Gateway



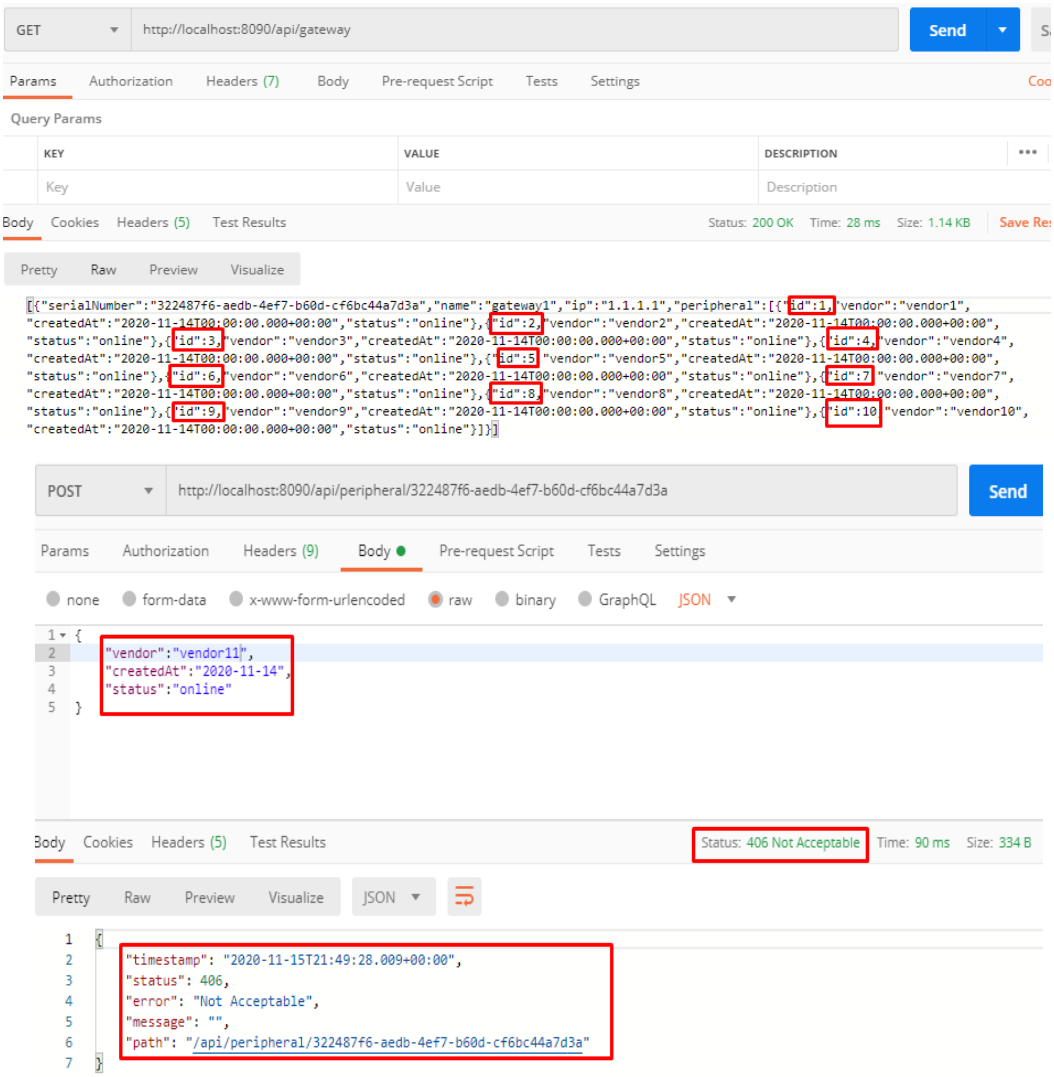
2-Add Peripheral to a Gateway



3-Get all Gateway



4-One gateway cannot have more than 10 peripherals, error is thrown



Internal Test

- There are 2 internal test using Junit, one for Add Gateway and Add Peripheral to a Gateway, you can run this test inside de IDE.