

Musala task

Gatway API's

Applicant: Ahmed galal

Installation

- The application uses java 14 , it needs to be pre-installed
- It is built using Apache maven
- It uses h2 in-memory database
- so, that application is self contained , running the application for first time will create the database at ./demo file
- the database is configured to be persisted in this file
- Database is autcreated by hibernate, not best practice but it is a smaple application.
- Unit tests on the other hand uses h2 data base in-memory mode.
 - There is also the schema ddl at /test/resources/schema.sql
- From the project directory you can run the application using `java -jar ./target/ahmed-galal-task-0.0.1-SNAPSHOT.jar`
- You can also run the application from the project directory using:
 - `./mvnw spring-boot:run`
 - The IDE run application funtionality
- Or You can build the application from the project directory using maven by using :
 - `mvn install`
 - this will build the application self contained jar and run all unit tests
- You can test the API's using swagger-ui at <http://localhost:8080/swagger-ui.html>.
 - Swagger will provide documentation and samples of each API input and output
- You can check h2 database using h2-console at <http://localhost:8080/h2-console> with the following credentials:
 - jdbc-url : jdbc:h2:[file:./demo](#)
 - username : sa
 - password : password

API's

GET /gateway

- list all gateways with their devices

GET /gateway/{serial}

- return single gateway with the given serial with its devices

POST /gateway

- add new gateway with its devices

PUT /gateway

- update gateway data
- can be used to update devices data as well
- can be used to add/remove devices to a gate way