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Description automatically generated

# Pluq Technical Exercise

Build a **web API** in Java and making use of Spring Boot. Handle the given JSON data as output from a third-party API that returns meter values from some Charge poles.

Each location can have one or more charge poles.

It’s not critical that you finish the whole exercise. It’s more about the conversation we can have about the setup of your project structure.

## Non-functional requirements

* Data persistence is free to choose.
* Keep it simple.
* Adhere to the SOLID principles as much as possible.

## General requirements

* Use a public GIT repo in order to track your versioning.

## API Requirements

* Operations to save and retrieve locations from the database.
* Operations to save and retrieve meter values from the database.
* Operations to generate a charging report showing per location:
  + Location name.
  + Amount of charging sockets.
  + Total amount of kWh charged.
  + Amount of charging sessions.
  + Amount of kWh charged per socket.
  + Amount of kWh charged per session.
  + Amount of kWh charged per day per socket.
* Add an extra operation to calculate other useful information (be creative!)

## When finished.

Send a mail to [lars@pluq.eu](mailto:lars@pluq.eu) with a link to the public github repo.