

## **Task - SE Electrical Power Reader**

### **Introduction**

In this following document you will find a task that we want you to prepare a solution. It will consist of you presenting solution to the task specified. You need to analyze requirements, design, and try implement your API as a result. The project deadline is November 4.

### **Task**

We need to have Electrical Power Reader API that will enable data reading from the distributed energy resources (DER) in our new building in Novi Sad. Suppose that we implemented solar units and battery storages in a building as distributed energy resources whose measurement data is being sent through the special controller to some messaging system. Your part is starting here from messaging system. The data should be mock and live in some topic. The API should consume data in real time and enable API's users to read them. API should also have own database, so data should be consumed from topic and persistent in own database because we want to search them between two dates and times. The data is current electrical power of measurements in a building. Each data should have value and timestamp. The unit is KW.