Minas Badounas
13/10/2020

# Documentation - Wellics Assignment

- System requirements

All you need to build this project is java 7.0 or better and Maven 3.0 or better.

The build of the project produces a jar that can be run throw Command-Line.

- Install Mongo Database

You can find more details on the link below:

*https://docs.mongodb.com/manual/tutorial/install-mongodb-on-windows/*

I choose NoSQL , for the following reasons:

- NoSQL is better for unstructured data like documents or JSON.
- It's more fast in comparison to SQL.
- It's more scalable in comparison to the SQL , so it can perform under an increased workload.
- It can supports big amount of data , so in our case if we keep hourly environment measurements , the amount of data will be too big in a few years.

- How to run Mongodb

1. Open Command-Line and type "cd 'Mongodb bin source' ".

```
C:\Users\minas>cd C:\Program Files\MongoDB\Server\4.4\bin
```

2. Then type 'mongod'.

Mongodb Application properties

```
spring.data.mongodb.host=localhost
spring.data.mongodb.port=27017
spring.data.mongodb.database=WellicsDb
```

- Build the Project

1. Open the Git Bash inside the project folder
2. Type this command to build the archive

```
mvn clean install
```

- How to run the Project

1. Open Command-Line and type " **'JRE source'** –jar **' application jar file source '** "
   ***Example:***
   *"C:\Program Files\Java\jre1.8.0_261\bin\java" -jar C:\Users\minas\Desktop\Wellics\Wellics.jar*

- Important information for the project

For the project I have chosen the following environmental variables:

- Light Levels
- Noise Levels
- Humidity Levels

And the 3 departments names are:

- departmentA
- departmentB
- departmentC

- POSTMAN

You will find attached 'wellics.postman_collection.json' which includes 3 GET requests.