Purpose

Defining the REST API specifications and the database Schema.

Main Activities

1. create, list Devices

Non-functional requirements

1. NodeJS Environment and programming language is TypeScript.
2. System is running inside a Docker container.
3. System is using mongoDB.

1.API Definition

Devices resource

1- Get Devices
2- Add Device

Users resource

	Action	Method	Resource URL	Success Code	Error Code
1	Get Devices	GET	/ Devices	200	500, 404
2	Get Device	GET	/ Devices /:deviceId	200	500, 404
3	Add Device	POST	/ Devices	201	500, 400

Status codes:

2xx (success category)

1- 200 ok: representing success for GET method.
2- 201 created: representing success for a new resource created for a POST method.

4xx (Client Error Category)

1- 400 Bad Request: The client send a request with a missing param or a request that doesn't fulfill the API exposed by the server.
2- 404 Not Found: indicates that the requested resource does not exist.

5XX(Server Error Category)

1- 500 internal server error: the request is valid from the client but the error occurred when the server tried to process the request.

2. Mongo Database

Collection Device

Scope:

Store data about Device

Schema:

```
{
  deviceId: uuid
  name: String,
  firmwareVersion: String,
  firmwareRersion: String,
}
```