IoTify

Stack-Hardware

Hardware: Esp01, Esp32, led strip,
Ir sender and relay
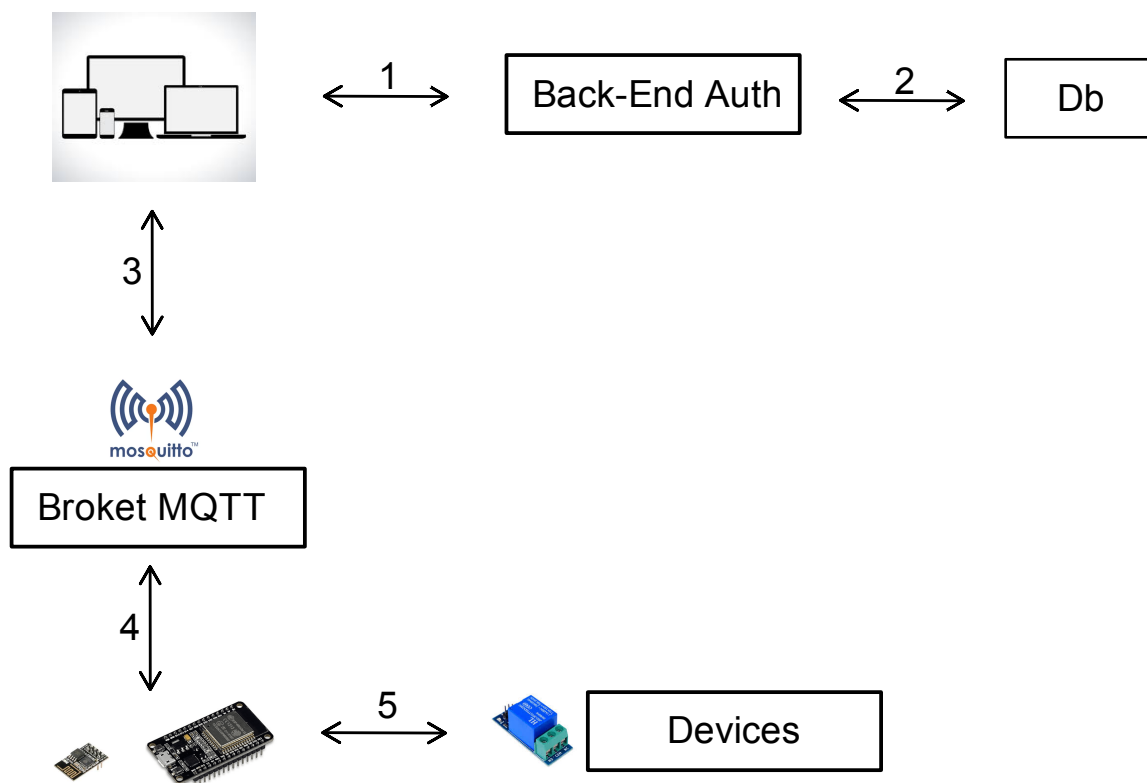Langues: C and C++ with esp SDK

Stack-Communication

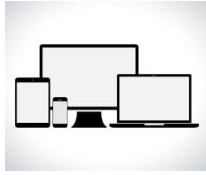Broker MQTT - Eclipse Mosquito
Api Rest
 Wifi

Tools Api - Auth and Control

Language: C# with dotnet
DataBase: Firebase and PostgreSql
Deploy and version control: docker and git

Data - Flow - Diagram

| | 1 | Back-End Auth | 2 | Db |

3

mosquitto™

Broket MQTT

4

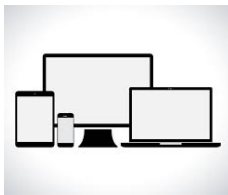5 Devices

Esp - Setup

1

Connecting to the ESP's network

Ap - Mode
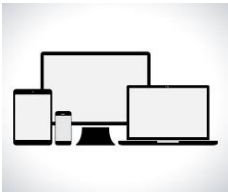Waiting wifi Credentials
and esp functions

Generic Devices

The ESP is generic, then it gets the code using the OTA protocol to request the base code.

2

What is dowload link for the base code?

Back-End Update

3

Give to Esp wifi Credentials and
Dowload link for the base code

4

esp connects to wifi, then gets the base
code and updates itself for Ota

Back-End Update

3

Esp subscribes to its topic in MQTT Broker

Broket MQTT

the default topic is is generated by:
user/{user_id}/device/{device_name}/status/{datetime}