**Design Documentation**

**Hackathon Orange Team**

**By:**

Jonathan Paulson

Jan-Gerd Tenberge

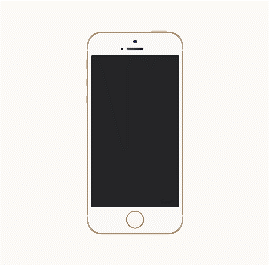
Niculae Mandache

Mustafa

Arip Permana

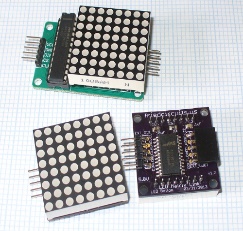
1. **Introduction**

The developed system will display an animation on square display of 32 x 32 LED matrix modules.

1. **Technical Specification**
2. Programming Language : C++, Objective C
3. Version control : GIT
4. **Development Environment**
5. USB to UART driver
6. Editor : Visual Studio Code, Xcode
7. IoT Development Environment using Plafrom IO
8. **Infrastructure Services**
9. Huzzah Feather ESP8266@80MHz
10. Chain of four MAX7219 8x8 dot matrix LED modules
11. Five wire female-female jumper wires
12. USB A to mirco-USB B cable
13. **System Architechture**

Huzzah Feather ESP8266@80MHz

**Web Server**



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