Totems App Docs

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italijancic

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PROJECT DESCRIPTION

The global goal of project is desing and develop an Smart Totems whit the next main functionalities:

- Detect register personal of institution and authorize acces to building

- Measure body temperature

- Send information about user, and temperature to server

- If the acces is enable: - Notify to the user - Send data data to server - Server must to store all data on a data base

- At the end of the day an administrator of app can see the names a data of all person that have acces to building and his correspondient corporal temperature.

To reach this the entire project is composed by:

- Smart Totems: Embedded hardware

- Web Application: - Bak-end - Front-end

SMART TOTEMS

Bascically is the hardware of the develop. Consist on metal structure whit the embedded electronic inside. The embedded system must to contain:

- MCU

- Wirless conectivity

- Infrared Sensor temperature: the selected sensor for the application is MLX90614

- **HMI, composed of:**

    - LCD 16X2

    - Buzzer

    - Two leds to indicate states of the global proces

THREE

WEB APPLICATION

3.1 Back-end

3.1.1 Web Server: Django

3.1.2 Data Base: MongoDB

3.1.3 MQTT Brocker: Mosquitto

3.2 Front-end

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CONTACT

Questions? Please contact italijancic@dytsoluciones.com.ar

NEED HELP

If you're trouble please email italijancic@dytsoluciones.com.ar

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