



Temperature Sensor

IoT Project Presentation

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Project Proposition

Temperature sensor who sends informations and data with **LoRa** technology

- Existing uses
- Real retail problem
- Security issues

Retail



Supermarket

Retail problems

- Too big
- Not connected
- Wrong Network -> No security
- High power consumption



IoT Solutions

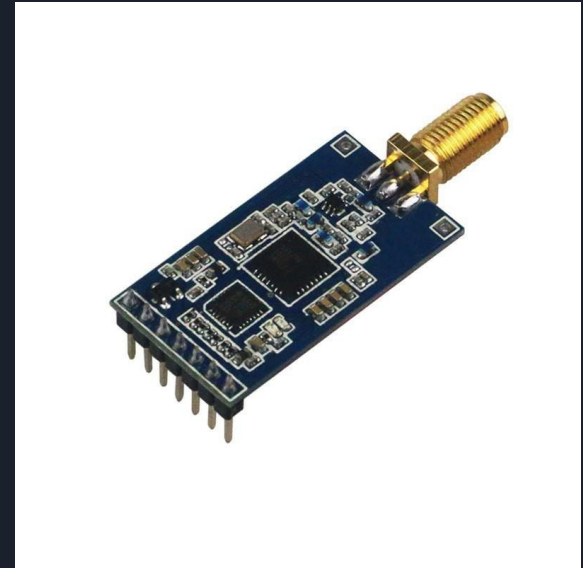
- Temperature Sensor : DS18B20 sensor



IoT Solutions

- LoRa Module
 - Low-power wide-area network technology

SOLUTION : ESP32



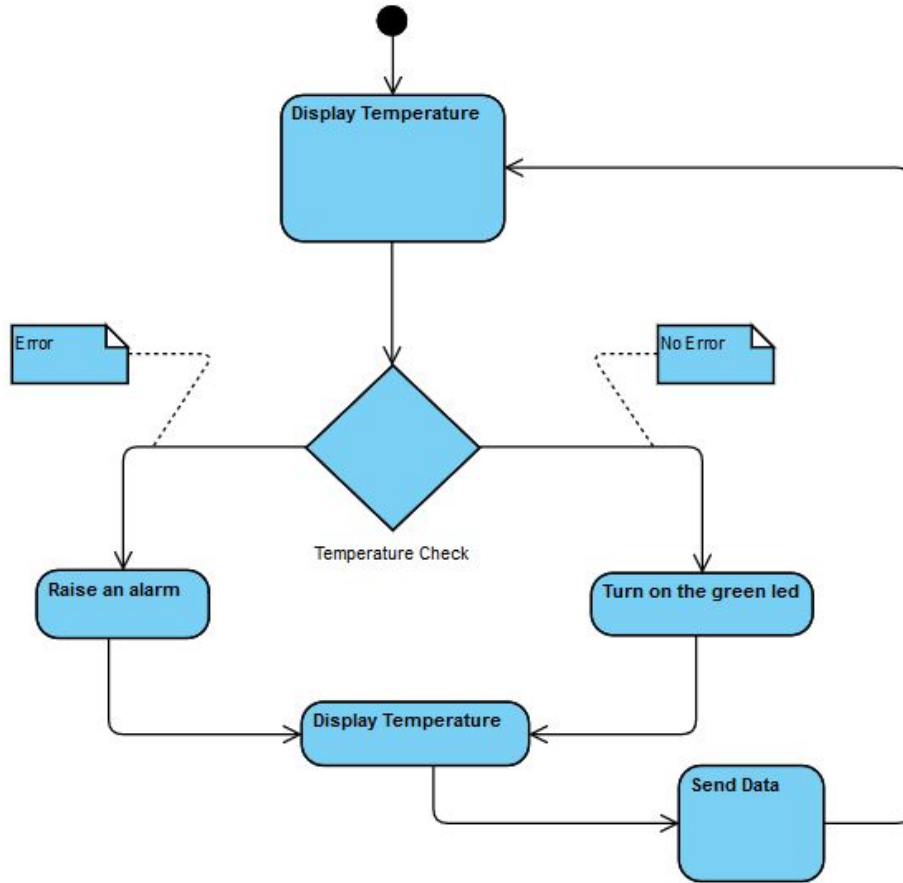


IoT Solutions

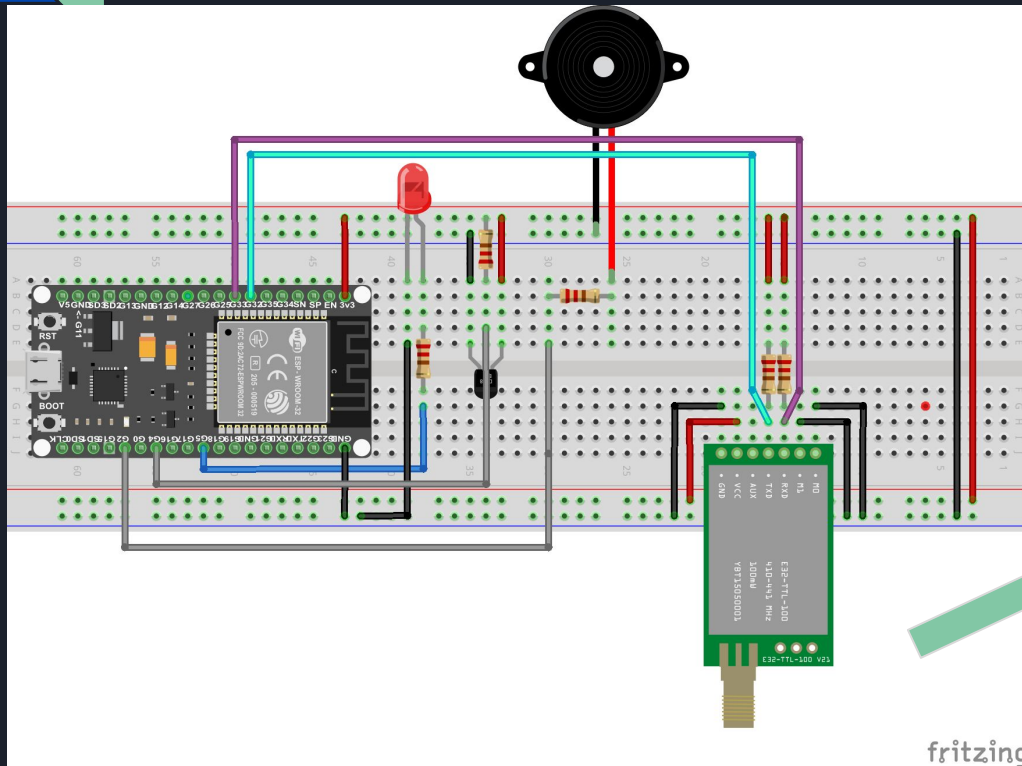
- Cluster
- Cool chain and Retail Industry

Norms and regulations :

- Data security management



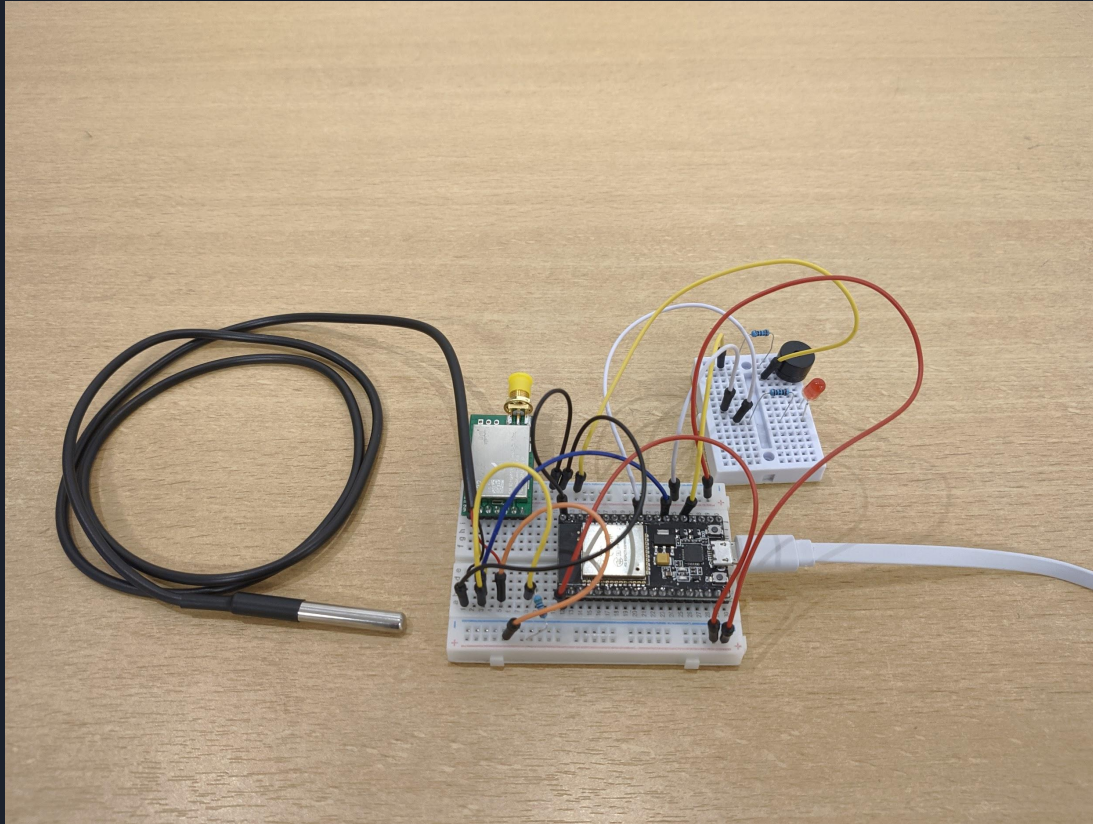
Fritzing sketch



Server

fritzing

IoT project



Questions

