

Smart Green House

A project for advanced embedded lab

Team: GORGONZOLA

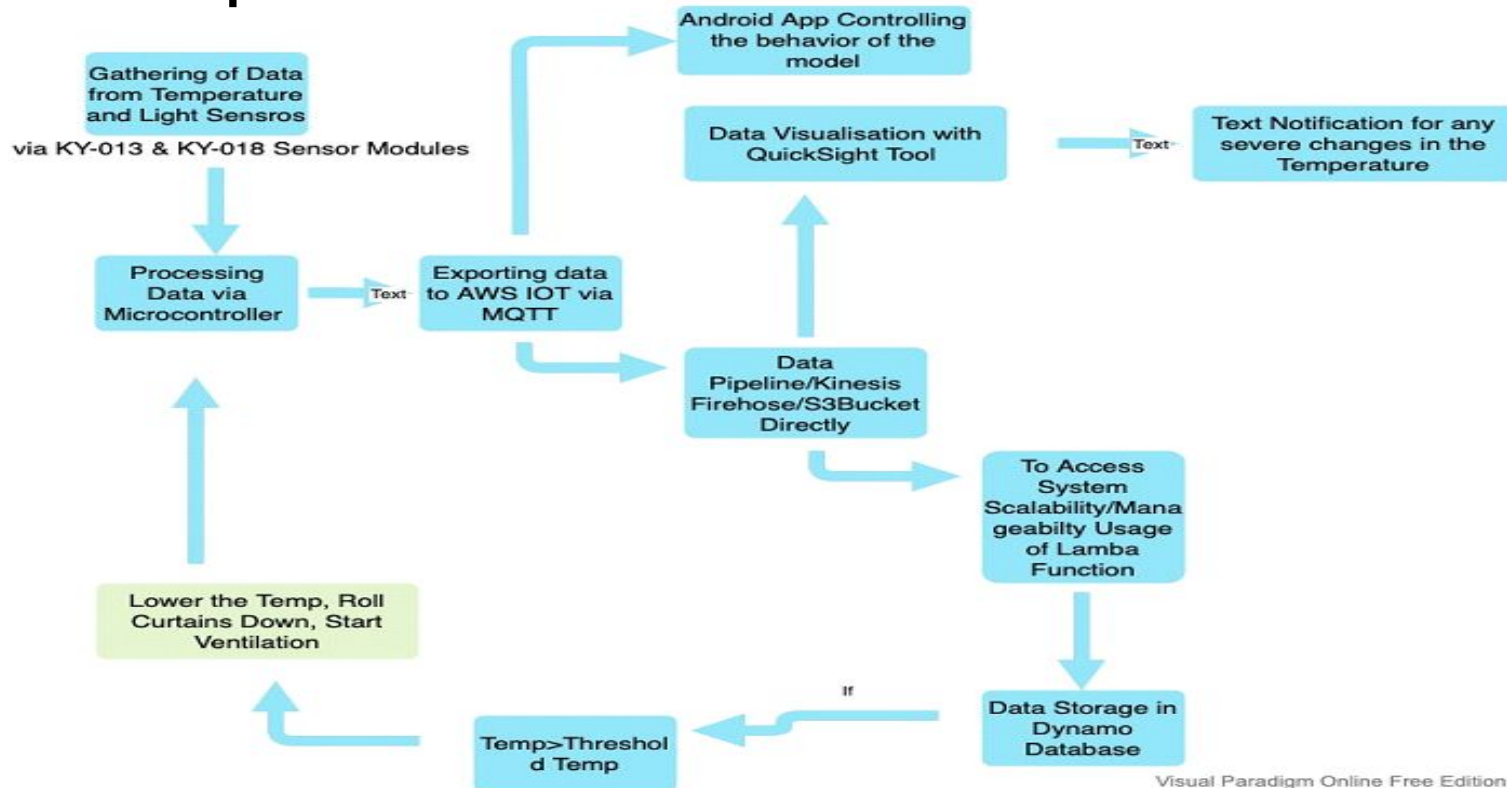
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Motivation

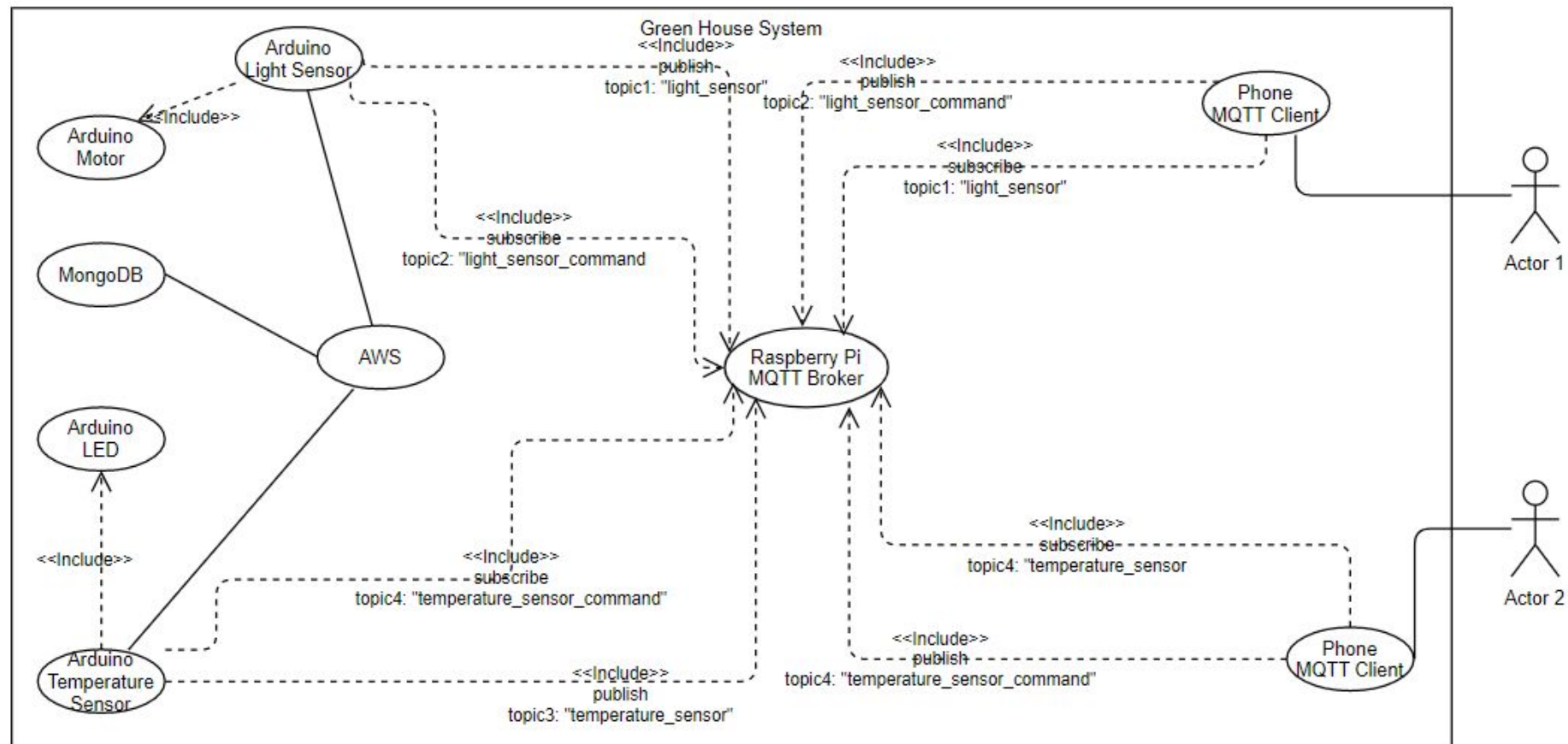
- For Green House, the control of Light and Temperature is very important
- Smart Green House: Employs a distributed system in which microprocessors and sensors are communicating through WSN techniques
- Our smart agriculture specifies the environmental constraints of a greenhouse where we can manage our crop by handling data from temperature sensors and light sensors

GreenHouse Automation

Concept Description



Use Case



Used HW/ SW

Arduino Uno Wifi Rev 2
Raspberry Pi 3
KY-013 Temperature sensor (NTC)
KY-018 Photo-resistor
KY-053 Analog-Digital Converter
RB 35 Motor
LED
DHT (used instead of KY-013)

Arduino
Mosquitto Broker
Network Analyzer
Mobile SSH
VNC Viewer
MQTT Dashboard

Technical Implementation

Code Demonstrated in Arduino
IDE

Demonstration (Video)

AWS Bridge Connection

