Group 5 - Internet of Thing

Smart Cultivation Watering System

Team member: Cheah Wen Xian, Lee Ting Le, Lim En Xi, Mikael Koay

Overview of the system

Concept

Using modern IOT devices to effectively manage and monitor plant irrigation in a cultivation environment

Goals

Create a healthier cultivation and planting environment

Sensors

1. Soil moisture sensor
2. Temperature sensor
3. Humidity sensor
4. Rain sensor
5. Camera sensor (optional)

Actuators

1. Water valve
2. Pump
3. LCD Display
4. LED
5. Relay
6. Camera from mobile app (optional)

Programming Lang.

Python 3.10 using Thonny IDE

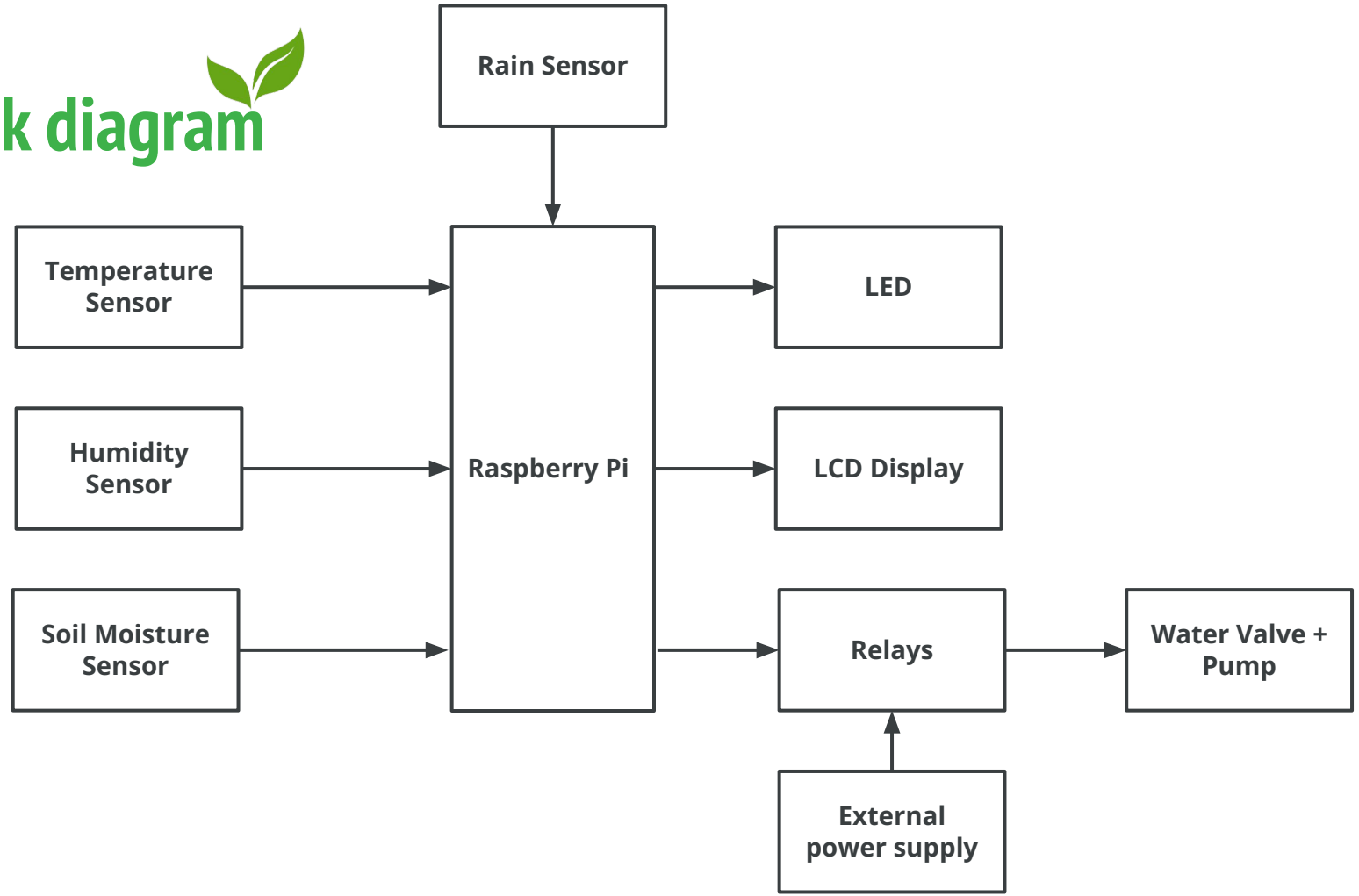
Database

Firebase

Target User

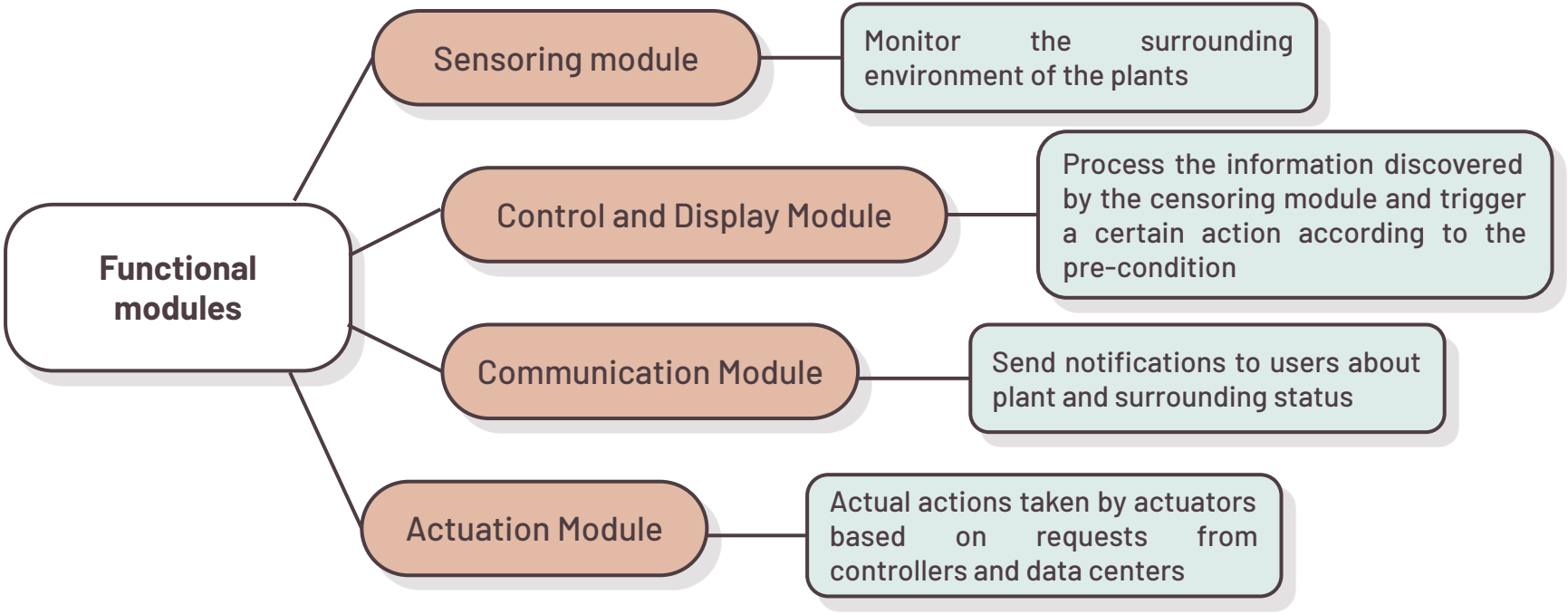
- **Smart-scale farmers and hobbyists**
- **Urban gardeners**

Block diagram



Example pictures

Functional Modules



Thank
You!

Question To Ask...

1. If humidity and temperature sensors combined into a single device, are they consider two sensors?
2. Proposed project OK tak? Comment abit la lengzai