

Self Watering Plant

Group 14

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Aim, Need and Existing Work

Forget to water plants

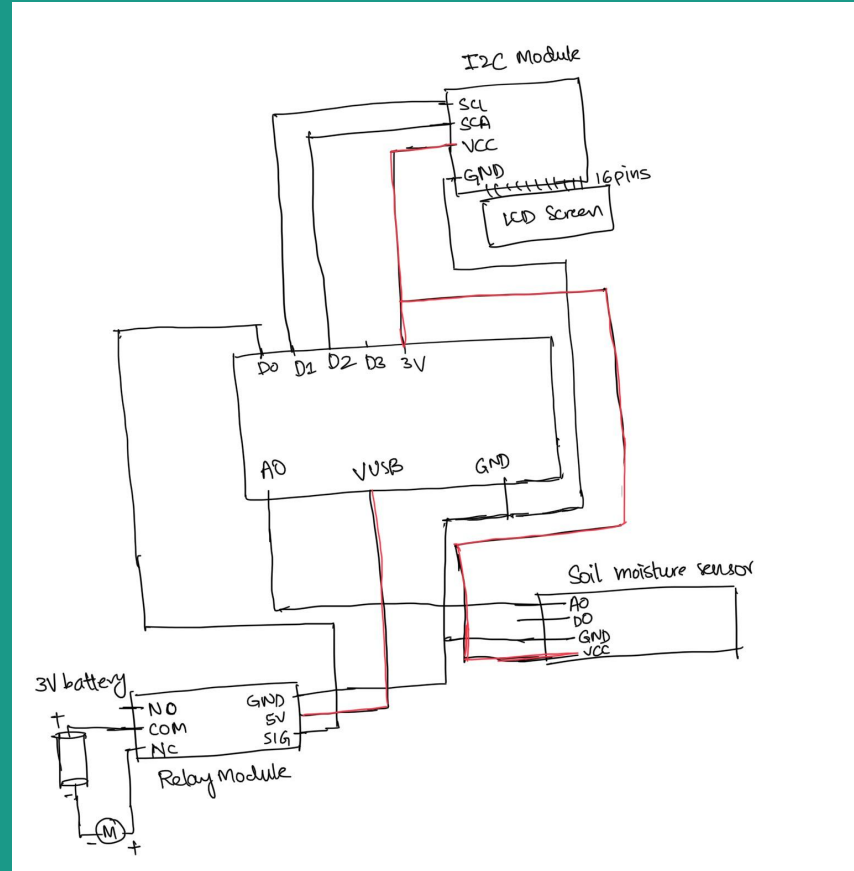
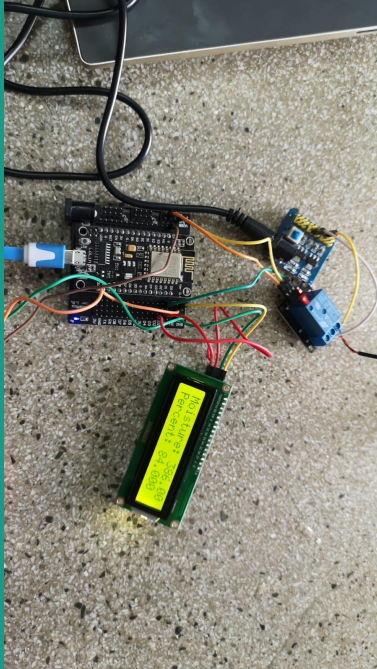
Water plants when when on vacation etc

Existing work includes self watering but no remote monitoring and manual options

Devices used

- ESP8266
 - Capacitive soil moisture sensor
 - Relay module
 - Mini water pump
 - Mini water pipe
 - Jumper wires
 - DC transformer module
 - LCD Screen
 - I2C Module
-

Circuit Diagram



Extensions

Manually toggle water pump

Data Analytics using python

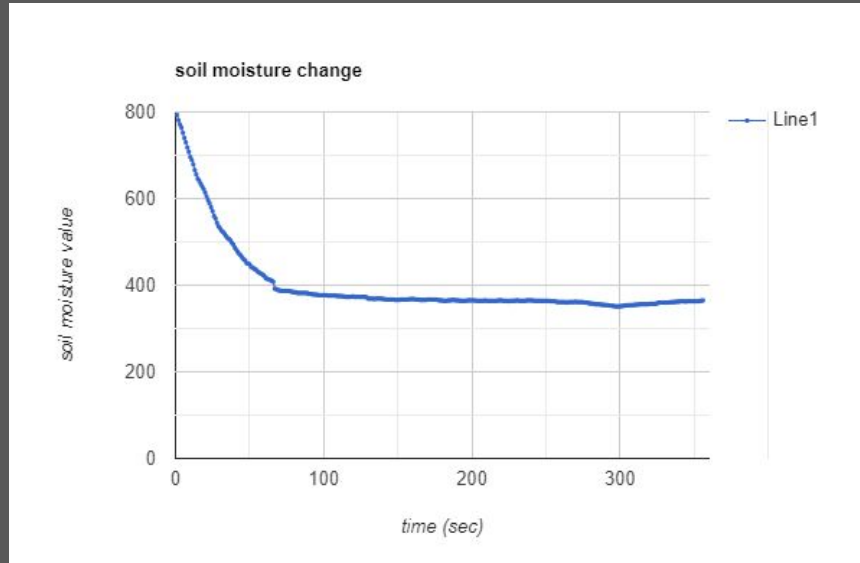
LCD Screen using <LiquidCrystal_I2C.h>

Manual threshold change via Dashboard

Video



Data Generated & Inferences



IoT Dashboard

