# **CROPMON**

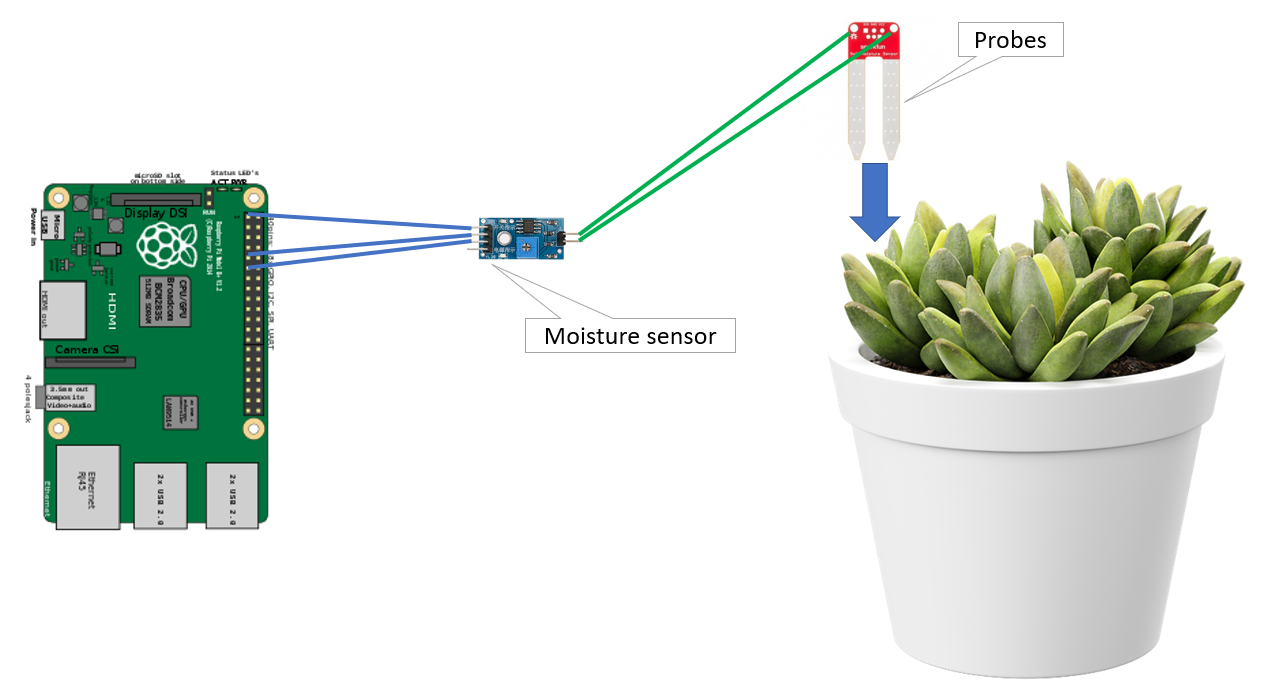
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| Student ID | **20091418** |

This project is a plant monitoring and watering system. It will use sensors to collect data and pump/valve devices. A web application will also allow a user to read soil moisture levels and trigger the delivery of water to a plant. It will also allow a user to set up rules for automatic watering based on soil moisture levels.

# **Tools, Technologies and Equipment**

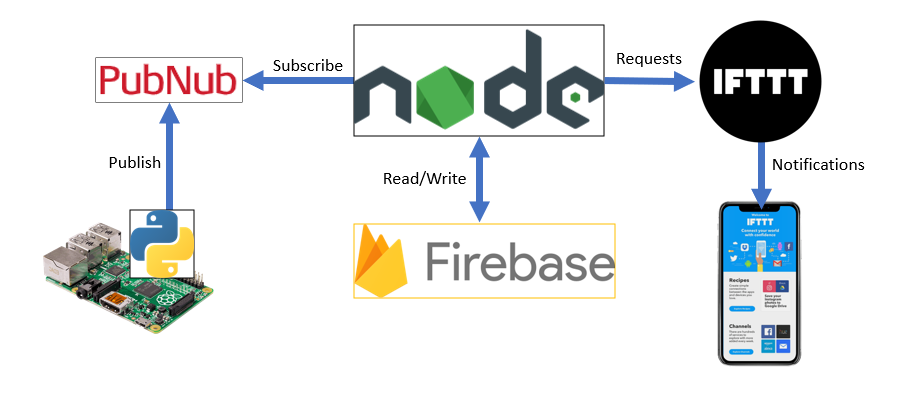
## **Hardware**

A Raspberry Pi powered by socket. This device will take Soil Moisture readings from a sensor and via GPIO. The Raspberry Pi will transfer data via WiFi using the built-in adapter.



## **Data & Communication**

The data for this system will be stored in a Firebase database. The Raspberry Pi will communicate with the database via a NodeJS API encompassed in the Web Application.



# **Project Repository**

https://github.com/Tadhg-io/cropmon