

Plant Talk

Project Overview

Problem: Many people enjoy plants but few have 'green thumbs' and the knowledgeable on how to take care of the plant. Also, they may not have the time to attend to the needs of plants when it is necessary.

Solution: The Plant Talk project aims to develop a smart irrigation system for plant growth based on soil and weather conditions facilitating irrigation of the plant when required, reducing water wastage and without having to manually water or add nutrients to the plant.

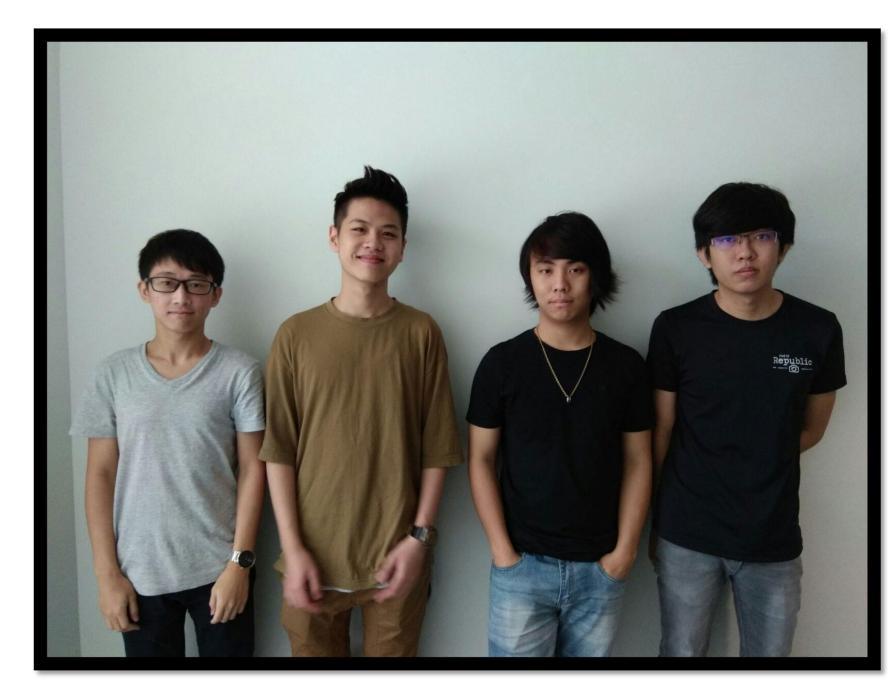
An Arduino is connected to sensors embedded in the soil which detect electrical conductivity, soil moisture, temperature and pH levels. The readings are transmitted to the database residing on Amazon Web Services and to the PHP application server which acts as the 'brain' to determine whether there is a need to top up water and or nutrient.

Technologies: IoT Arduino, JavaScript Full Stack Framework, PHP, Node.JS, Amazon Web Services









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Arduino Setup