ABSTRACT

Soil is a medium used for living and developing plants. The soil contains nutrients such as: Sodium (N) Pasfor(P) and Potassium(K). In addition to the nutritional content, plants also need water to help the process of photosynthesis. Watering on plants aims to reduce soil moisture and fertilization also aims to make the soil have a balanced source of nutrients for growth. Making an Internet off thinks (IoT) based watering and fertilization monitoring system using NodeMcu, YL69 soil moisture sensor, TCS3200 sensor, relay, 16x2 LCD, water pump, android. The method used is a trial method that serves to carry out watering and fertilizer detection, By utilizing the internet connection on the Blynk Android application. From the results of trials conducted on chili planting when the plant is dry, the percentage is 0% and the water pump is off. When the plant is wet the percentage is 1-100% and the water pump is on.

Keywords:Internet off thinks (IoT), NodeMcu, soil moisture sensor YL69