

ABSTRACT

Aquaponics is a cultivation method that combines fish and plants. This cultivation provides mutual benefits, such as fish food waste and fish feces can be useful for plant protein synthesis. Because it combines fish and plant cultivation, acuponics requires more care than other methods such as nutrients in the water, light intensity, water level, water turbidity, and water pH. Because of the many control needs in this method, it is the background for designing website-based Internet of Things technology in aquaponic cultivation

IoT can be generally classified as a network of physical devices where these devices can collect, send and receive data automatically. With the ability to interact between devices without human intervention, IoT has great potential to increase efficiency, automation and control in various industrial sectors and everyday life.

In this final assignment, the aim is to utilize internet of things technology in monitoring and being able to access it via the website. With the system, the data obtained from the sensors will be managed by the microcontroller and then forwarded to the database, the database used is Firebase. The data in Firebase will later be displayed to users with the website address tjaquagrow.my.id.

Keyword: Internet of Things, Website, Database, Aquaponik