

ABSTRACT

Indonesia has considerable potential to cultivate human resources, especially in agriculture. Residents who live in rural areas mostly work as farmers. Fertilization, watering and pengawsan are routinely done manually and will continue until harvest time arrives. In a technological era that continues to grow, some farmers want new technology that can help plant crops to monitor and control plants remotely.

General Farming Automation is a technology designed to help farmers to grow crops automatically. By using the Control panel Application, the General Farming Automation system can be controlled manually through applications and can be directly monitored remotely. For controlled parameters are from the sensor and actuator systems as well as the system of calculating the weather is good for the development of plants.

The control panel system can help the performance of General Farming Automation system, especially in the monitoring and control system of agricultural areas. Can do watering and fertilizing manually, selection of plant characteristics, as well as setting the location or the arena of the plant in accordance with the user's command. The success rate of the panel control system is 100%.

Keyword: Technology, Farming, General Farming Automation, Monitoring, Controlling, Web-Based, Watering, Fertilization.