

## ABSTRACT

Indonesia is an agrarian country, with most of its population relying on agriculture for their livelihoods. Horticultural plants are susceptible to pests and require adequate temperature and humidity. To address these issues, regular monitoring is essential.

Greenbox is a planting medium that adapts greenhouse technology by modifying its size. Greenbox is relatively small, tailored to the land area and the needs of fewer plants. This study uses a Greenbox measuring 90 cm x 30 cm x 40 cm, made from 7 mm thick plywood, as a home planting container that is resistant to wind, rain, pests, and other factors.

Direct monitoring in the field is time-inefficient because it requires time and energy to reach the location. Cultivating horticultural plants requires meticulous care due to the need for suitable weather, temperature, and a safe environment to avoid pests.

Therefore, this study aims to make the monitoring process faster and easier so it can be conducted anytime and anywhere. The research also aims to assist in classifying the health status of plants. The monitoring system in this study involves sampling soil suitability, temperature, and humidity.

**Keywords:** automation, strawberries, Blynk, monitoring