

ABSTRACT

Internet of Things is a concept in which certain objects have the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction. With the Internet of Things technology, it allows humans to easily interact with all equipment connected to the internet network. One of them is the IOT Smart Garden, this tool can remotely control the watering and lighting of plants, by sending messages via the telegram application sent to the tool. The tool responds and works on orders that have been sent and also replies to messages about the information we want from the plant. This Smart Garden tool uses ESP12E as a controller and a soil moisture sensor as a soil moisture detector, and DHT11 as a temperature and humidity sensor, for relays using 2 relays, one for watering plants and the other for lighting plants. With this tool, it is able to assist in monitoring the garden so that its fertility can be maintained.

Keywords : *Internet of Things, Smart Garden, ESP12E, DHT11, Relay.*