ABSTRACT

The development of science and technology today is very rapid. Especially in the field of electronic technology affects people's lives to go further, practical and simple. In principle, the purpose of the design of this tool is to facilitate human work, let alone the progress of the times demanding effective and efficient human work. Therefore, the design of online electricity token charging tool integrated with this prepaid meter kwh moves to follow the commands of the wifi network that connects the web server token with the microcontroller as the brain of the wifi network tool that connects the web server token with the microcontroller through the ESP8266 module. Web server is tasked to send tokens raised based on PLN customer number to the microcontroller that is using a servo motor robot with 6 drive motors by pressing the keypad kwh meter whose results appear on the LCD kwh meter and the time it takes the user to fill the kwh meter online ranging from login to kwh meter filled approximately 3 minutes.

Keywords: *Arduino node mcu, motor servo, ESP8266, modem GPON and 4 G*