Smarthome: Controlling and Monitoring the Use of Type-36 Home Electronic Devices based on Microcontroller Atmega8 and Esp8266 with Android Control Using Wifi Network and Internet

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ABSTRACT

Nowadays, controlling and monitoring a long-range object through internet (Internet of Thing) become interesting along with the development of internet and the increase of smartphone users. Internet of Things provides convenience and easiness in controlling and monitoring an object such as human safety in a dangerous area with sensors and electronic devices from different places. The increase of academic and non-academic researches on the Internet of Thing makes the process of controlling and monitoring a thing such as lamps in residential house necessary to conduct by adding web applications. The additional web application as interfaces like the account system, login, user, admin make it more efficient in economic side to have a new electronic product.

Keywords: arduino, electrical installation, codeigniter, jquery, REST API