

## ABSTRACT

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*Smart Home is implementation with instan technology where is applied for the device that given efficiency and savings our electronic inside the house. Advantage from using the smart home in our daily life is safety of electricity usage and device while connected on electrical socket. when the owner hurry and leave his house, many people forgets about their device on electrical socket to unplug it for a long time or thunderstorm, so it can be risk like short circuit that will ruined that device. Therefore needed device for controlling electrical socket remotely it can be ease the owner while leaving house. this system has several main components, Raspberry pi, Arduino Uno, Current Sensor ACS712, LCD I2C, Arduino Mega + ESP8266 single board and Relay Module. This sensor giving an output current value on each load that's connected with electrical socket and showed by LCD I2C. Components connected with arduino are controlled by website who created by raspberry pi. In this website, user can be controlling and seeing current value who used by each slot electrical socket which has converted with rupiah*

*Keyword : Raspberry pi, Module Relay, ACS712, LCDI2C, Arduino Mega + ESP8266*