

ABSTRACT

Light control is usually done by pressing the on / off switch or button that is usually in the house to turn the lights on and off. In this PKL / KP report, a system to control lights is made using an android application, namely MQTT DASH and it is monitored through the Antares IoT Platform based on the mqtt protocol. the working principle of this system is that the lights that are installed at home can be turned off and on using the Android application by simply touching the part that is already in the Android application and can be monitored using the Antares IoT Platform from outside the home provided that the house has an internet network available and connected to the home internet. If the home owner is outside and late after work, the user can turn on the light from the application so that the house lights turn on at night while the house owner is on the road and the house is also safe from crime.

Monitoring these lights is also easy by seeing the status of the connected lights 1, 2, 3 and so on or continuous or continuous values that are on the Antares IoT Platform whether the lights are still functioning or not functioning, i.e., for example, there is a power failure in the house, then the reading of the connected light status will be stopped and not updated with the status of the connected lights on the Antares IoT Platform. With this system, users can turn on and turn off the lights from outside the home via the android mqtt dash application and monitored via the Antares iot platform, with this system it can also save on electricity bills due to unused or excessive use of lights and to avoid home owners forgetting to turn off the lights the.

Keywords : *MQTT Dash, Antares IoT Platform, 2 Channel 5V Relay, Smart Lamp, smart lamp, nodemcu esp8266, mqtt protocol, internet of things, IoT.*