

ABSTRACT

Population growth in metropolitan cities resulted in increased construction of buildings and number of vehicles. But the limitation of urban land also resulted in narrowing of parking lots that is not proportional to the number of vehicles. Therefore, to overcome this in the building built underground parking (basement). But the cost of electricity in the basement is quite large because generally the lighting and the use of fan / fan basement for circulation operate for 24 hours. So the author gives a solution to control and monitor temperature, humidity and lighting.

The basement temperature and humidity are arranged according to the standards of health and comfort acceptable to the human body. When temperature readings by DHT11 sensors are overheated the fan / fan basement will move. If the humidity reading by DHT11 sensor is considered too dry it will be released by humidifier dew .. Whereas lighting by the lights on the basement based on the location of the vehicle is detected by the proximity

From the results of research that has been carried out, it can design and implement an automated system to control temperature, humidity, and lighting so that it complies with the Ministry of Health regulations within 5-6 minutes, as well as monitoring the temperature, humidity in the basement of the building.

Keywords: Basement, DHT11, Proximity