

ABSTRACT

Weather that changes rapidly and continuously all the time makes it difficult to predict. The weather in one area and another has different weather parameters. Therefore, weather conditions are information that is very necessary and widely used to monitor weather changes that continue to change in controlled areas such as homes, industries, campuses, etc. The required weather parameters include temperature, rainfall, air humidity, light intensity and wind speed. However, problems occur when accurate weather reports for the current time are needed. An IoT-based weather monitoring system was built with the aim of providing information about real-time weather changes to the public and this information can be accessed easily by everyone through the application. The weather monitoring system device uses a rain sensor (Rain Drop Water Sensor), LDR sensor (Light Dependent Resistor), and temperature and humidity sensor (DHT11). These sensors are combined into weather information (sunny, cloudy, rainy). The information is sent and then displayed on the application which is updated every 10 seconds. This weather monitoring system provides easier, faster access by simply accessing the Blynk application, and previous information stored to determine weather changes can be viewed via the Database.

Keywords: *Weather Monitoring System, Weather Monitoring Tool, Rain, Temperature, Humidity*