

## **Web Server Based Mobile Weather Analyzer System**

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Weather, which means the condition of the atmosphere at a particular time and a place is a fascinating topic since nineteenth century, as the monitoring of weather is helpful for various human activities. Barometer, Anemometer, Thermometer are separately used and data is analyzed in order to predict weather. Nowadays, lot of high-end weather analyzing systems are available in the world which are designed and developed in a large scale, for monitoring the weather in a city or a state. Enormous size of the available system, higher maintenance costs are some of the difficulties face with in the current large scale system. The designed system is designed for the individuals like farmers with large scale farms. The system is designed as a mobile unit which works with battery power as well as solar energy. System is portable and can be fixed at any suitable place as the data transmission is done through General Packet Radio Services. User is able to link the device with the official web site, which provides necessary details and the data can be accessed by logging in to user's account. Temperature, atmospheric pressure, humidity, wind speed, wind direction, altitude and precipitation are measured and the data is automatically updated once per hour. User is able to take a clear image about the weather condition of the installed place for the next few hours and the tasks can be scheduled. The device should be placed at clear outdoor place for more accurate readings. The anemometer can measure real time wind speed with 85 - 95% accuracy. In addition, systems for getting weather details at local places such as homes, farms, are not available and the collected data aren't stored in cloud. Therefore, this system can be used in order to collect a bulk of data which is important for advance forecasting algorithms.

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