***Smart Agriculture System Based on IOT***

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**Introduction**

A platform for the better knowledge about Climatic conditions of surrounding to farm owners and to manage the electronic machines used in farming.

This platform can accessed by any smart device with the help of internet.

**Existing Problems**

The farmers are facing problems with unexpected climatic changes ,they have visit the farm for even the small monitoring.

The details of soil moisture ,temperature are not easily available as they are the key points in the agriculture.

Manual operation of motors .etc.

**Solution**

The smart device which gives the proper information of weather and monitor temperature ,humidity ,soil moisture.

We reduce the workload of farmers by managing the water supply to crops by controlling the motors using this device .The farmers can water the crops from anywhere.

This app provides the real time weather broadcast which gives them the details like humidity temperature also about rain.

**Block diagram**

Temperature

Humidity

Temperature

Motor on

Soil moisture

Humidity

Motor off

Motor

Sensor

IOT Device

Climate

Rain

**Future Scope**

With more development with this device it can be attached to camera and other devices used to monitor the farms .

Will be used by the large number of farmers as device simplifies for the easy understanding to farmers .

It has great scope in being used by large scale farm holders and with more modification we can add track of growth time of crops ,Expected harvesting time ,etc.