PROJECT TITLE – SMARTFARMER – IOT ENABLED SMART FARMING APPLICATION

TEAM ID: PNT2022TMID30750

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ABSTRACT

In every country agriculture is done from ages which are considered to be science and also art of cultivating plants. In day to day life, technology is updating and it is also necessary to trend up agriculture too. IoT plays a key role in smart agriculture. Internet of Things (Iot) sensors are used to provide necessary information about agricultural fields. The main advantage of IoT is to monitor the agriculture by using the wireless sensor networks and collect the data from different sensors which are deployed at various nodes and send by wireless protocol. The sensors are used to sense the level of water and if the level is below the range than the system automatically starts watering. According to the change in temperature level the sensor does its job. IoT also shows the information of humidity, moisture level by including the date and time. The temperature level based on type of crops cultivated can also be adjusted.

LITERATURE SURVEY:

IoT Based Crop-field monitoring an irrigation automation system describes how to monitor a crop field. A system is developed by using sensors and according to the decision based on sensed data, the irrigation system is automated. Through wireless transmission the sensed data is forwarded to web server database. If the irrigation is automated then the moisture and temperature fields are decreased below the potential range. The user can monitor and control the system remotely with the help of application which provides a web interface to user.

The system focuses on developing devices and tool to manage, display and alert the users using the advantages of a wireless sensor network system. It aims at making agriculture smart using automation and IoT technologies

The cloud computing devices are used at the end of the system that can create a whole computing system from sensors to tools that observe data from agriculture field. Here one can access and control the agriculture system in laptop, cell phone or a computer.

REFERENCES:

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