TEAM ID- PNT2022TMID21802

SmartFarmer - IoT Enabled Smart Farming Application

Project Objectives

IoT-based agriculture system helps the farmer in monitoring different parameters of his field like soil moisture, Temperature, humidity using some sensors. Farmers can monitor all the sensor parameters by using a web or mobile application even if the farmer is not near his field. Watering the crop is one of the important tasks for the farmers.

➢ Farmers are under pressure to produce more food and use less energy and water in the process. A remote monitoring and control system will help farmers deal effectively with these pressure.

➢ IOT plays a major role in agricultural field This paper mainly applied to agricultural field Smart irrigation and farming can help farmer to grow healthy plants. The existing system only checks the soil water stress and automates the process of watering.

➢ The paper is about IOT based smart farming and irrigation system.The agenda of ths paper is to automate the process of watering to plants.

➢ Thiswork helps us to know the values of various parameters such as humidity, moisture andtemperature of plants and water them accordingly

➢ The system consists of three sensorswhich sense the values off the motor according to the conditions given. If the sensorvalues are decreased, it turns on themotor else it turns off the motor.

➢ The ultimatesignificance of this paper is that most of the manual work is reduced and wateringprocess is of humidity, moisture and temperature of plants. If and of the valuesdecreases the motor automatically turns on the water for plants.

➢ .The various sensors send thevalues to the Arduino board which has been coded with if else conditions will furtherrpass the commands to the relayh turns on automated with the help of devices asa result of which healthy plants can be grown, Water and electricity usage are saved by this paper. Even elderly people can easily do farming.