IBM PROJECT –PNT2022TMID26854

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IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

ABSTRACT

The Smart safety machine defines that this challenge assist to farmer for the safety of a farm. We have designed this challenge for the handiest steady from animals however we this challenge have the availability to steady from the human starts off evolved additionally. This can obtain through the assist of IOT tool that we're talk on this paper. The SCPS paintings at the battery in order that this challenge may be without difficulty transportable and additionally we're upload sun panels and converter modules this could assist the battery to Price from sun energy. The IOT tool is used to suggest the farmer through a message at the same time as a person input into the farm and we're used SD card module that allows to shop a distinct sound to worry the animals. This challenge is sensible crop safety machine for guard the farm from animals in addition to unknown person. This initiatives contents ardiuno UNO, LCD display, PIR sensor, flame sensor ,sd card module ,sun panel, sun fees converter. This complete challenge is paintings on 12v dc deliver from battery. We used sun panel to price the battery.

Literature Survey:-

Iot based smart Crop protection system.

Rajalakshmi.P and S. Devi Mahalakshmi, "IOT Based Crop Field Monitoring and Irrigation Automation", tenth International convention on Intelligent structures and manage (ISCO), 2016.

An IOT Based Crop-subject tracking an irrigation automation machine describes the way to display a crop subject. A machine is evolved with the aid of using the usage of sensors and in line with the selection from a server primarily based totally on sensed records, the irrigation machine is computerized. Through wi-fi transmission the sensed records is forwarded to net server database. If the irrigation is computerized then the moisture and temperature fields are reduced beneath the capacity range. The consumer can monitor and manage the machine remotely with the assist of utility which presents an internet interface to consumer .

By clever Agriculture tracking machine and one of the oldest methods in agriculture is the guide approach of checking the parameters. In this approach farmers with the aid of using themselves confirm all of the parameter and calculate the reading .The machine makes a speciality of growing gadgets and device to manage, show and alert the customers the usage of the blessings of a wi-fi sensor community machine. It objectives at making agriculture clever the usage of automation and IOT technologies . The cloud computing gadgets are used on the quit of the machine that could create an entire computing machine from sensors to gear that study records from agriculture subject. It proposes a unique method for clever farming with the aid of using consisting of a clever sensing machine and clever irrigator machine thru wi-fi communique technology . This machine is reasonably-priced at value for installation. Here one could get entry to and additionally manage the agriculture machine in laptop, mobile, smartphone or a computer.

LIMITATIONS

1. There can be a incorrect evaluation of climate conditions.
2. Devices are to be altered in keeping with the farmers, it'll contain system in an effort to be expensive.
3. If there are defective statistics processing system or sensors, then it'll result in a scenario wherein the selections are taken incorrect .

CONCLUSION

From this literature survey we have seen the technology that help to farmer for to protect his farm. Specially IOT based system who can monitor the farm online. In above research papers they are not looking cost of System and so that didn't get affordable to every farmer. Hence we want implement a costless smart crop protection system.