IDEATION

DATE	03/11/2022
TEAM ID	PNT2022TMID26854
PROJECT NAME	IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

Idea 1:

Crops within the farms are persistently devasted by the wild furthermore as livestock and low productivity of crops is one in all the explanations for this.It isn't attainable to remain twenty four hours in farm to scout the crops .So to surmount this problems an automatic perspicacious crop aegis system is planned utilizing web of Things(IOT).The sysytem accommodates esp8266 (nodeMCU), soil wetness sensor, dihydrogen oxide sensor, GPRS and GSM module,servo motor, dihydrogen monoxide pump ,etc.To get the specified output .As before long as any Kineticism is detected the system can engender an alarm to be taken and also the lights can glow up enforced at each corner of the farm.This won't damage any animal and the crops will keep forfended.

Idea 2:

The smart safety gadget outline that this assignment assist to farmer for the safety of a farm .We have designed this assignment for the handiest stable from animals however this assignment have the provisions to stable from the people additionally. This may be carried out through the assist of the IOT tool . The SCPS paintings at the battery so that this assignment can be without problems transportable and additionally we're brought sun panels and converter modules .This can assist the battery to fee from sun energy .The IOT tool is used to suggest the farmer through a message even as a person input into the farm and we're used SD card module that facilitates to save a exact sound to worry the animals.

Idea 3:

A centralizing method in the area of IIoT (Industrial Internet of Things) contrived for understanding agriculture which is preceding the arrangements low-power devices . This project yields a monitoring procedure for farm safety against animal attacks and climate change conditions. IIoT advances are frequently used in smart farming to emphasize the standard of agriculture. It contains types of sensors, controllers. On behalf of WSN, the ARM Cortex-A board which consumes 3W is the foremost essence of the procedure . Different sensors like DHT 11 Humidity & Temperature Sensor, PIR Sensor, LDR sensor, HC-SR04 Ultrasonic Sensor, and camera are mounted on the ARM Cortex-A board. The PIR goes high on noticing the movement within the scope, the camera starts to record, and the data will be reserved onboard and in the IoT cloud, instantaneously information will be generated automatically towards the recorded quantity using a SIM900A unit to notify about the interference with the information of the weather conditions attained by DHt11. If a variance happens, the announcement of the threshold rate will be sent to the cell number or to the website. The result will be generated on a catalog of the mobile of the person to take the necessary action.