Brainstorm & idea prioritization

For Smart Farming - IoT enabled Smart Farming Application

10 minutes to prepare
1 hour to collaborate
2-8 people recommended

Share template feedback

Problem Statement for Smart Farming

PROBLEM

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 pressures.

Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

KAVIPRIYA M S

majority of Indian farmers use traditional tools for agriculture such as plough, sickle, etc. Farmers are under pressure to energy and manpower and less yield per capita labour force. Only little use of the machine is seen in irrigation, harvesting, and transportation.

In Farming Watering the plants is one of the difficult process and they have to wait for the whole filed to pour water.
he had to check the field for 30 min once

Soil health analysis helps in determining the nutrient status of the farm, soil drainage capacity, in turn, which helps in the decision-making about soil water-needed for irrigation and the optimum beneficial type of cultivation.

VASANTH N

Overuse of pesticides and fertilizer in agricultural fields has resulted in soil degradation as well as reduce the efficiency of the field. Increasing the use of smart farming and IoT applications may be used to update the farmer/user about type & quantity of pesticide required by the crop.

Smart farming based on IoT technologies drastically powers farmers to increase productivity and enhance profitability, ranging from the quantity of manpower required to operate (number) the farm vehicles, fuel-made, and making efficient utilization of resources, such as water, electricity, etc.

The biggest challenges faced by IoT in the agricultural sector are lack of information, high adoption costs, lack of clear outcomes, etc. Make the farmers are not aware of the impact and benefits of IoT in agriculture.

SELVA BHARTHI A

IoT in agriculture uses robots, drones, remote sensors, and automated machinery, along with continuously progressing machine learning and analytical tools for monitoring crops, livestock, and farm fields. It provides real-time data to farmers for advised farm management plans to cave falt time and money.

SWATHY AM

Remote sensing in agriculture is revolutionizing the way data acquired from different realms is used. Remote sensing utilizes sensors placed along with the farms like satellites to gather information data, which is transmitted to analytical tools for analysis.

Sensors placed along the farms monitor the crops for changes in light, humidity, temperature, moisture, etc. The data collected by the sensors is analyzed and the farmer is alerted. This early detection can help prevent the spread of diseases and keep an eye on the growth of crops.

The data collected by sensors can be used to track light, temperature, moisture, precipitation, and cross-direction of the wind. Farmers can use weather patterns in farms so that cultivation is done for suitable crops.

One of the benefits of using IoT in agriculture is the increased efficiency of farmers. With real-time monitoring and predictive systems, farmers can quickly respond to any significant changes in weather, pests, or crop health, ensuring thresholds of each crop or soil in the field.

BALA

It consists of Temperature sensor, Moisture sensor, water level sensor, DC motor and GPRS module. When the IOT based agriculture monitoring system starts it checks the water level, humidity and moisture level

Cope with climate change, soil erosion and biodiversity loss, while simultaneously changing tastes and expectations. Meet rising demand for increased yields of higher quality, sourced in best productivity.

Smart farming is a management concept focusing the agricultural industry with the intent of leveraging advanced technology – including big data, the cloud and the internet of things (IoT) – for tracking, monitoring, automating and analyzing operations.

Group ideas

20 minutes

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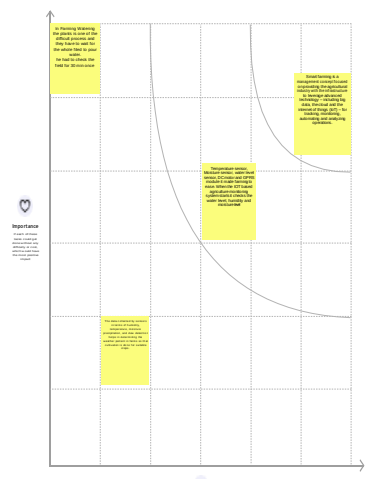
Temperature sensor, Moisture sensor, water level sensor, DC motor and GPRS module it made farming to ease. When the IOT based agriculture monitoring system starts it checks the water level, humidity and moisture level

Smart farming is a management concept focused on providing the agricultural industry with the infrastructure to leverage advanced technology – including big data, the cloud and the internet of things (IoT) – for tracking, monitoring, automating and analyzing operations.

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes