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

1 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.

2 Brainstorm

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

10 minutes

Arun kumaran M

majority of Indian farmers use traditional farming agricultural tools and seeds, while also The book is the result of years of research and interviews with over 40 experts between force. Only 1/10th of all farm workers work in farm mechanization, 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

Soilhealth analysis helps in determining the nutrient value and drive areas of improvement. Farmers should be aware of the amount of water needed for irrigation and fertilizer used for the specific crop cultivation.

Jaganathan M

Overuse of pesticides and fertilizer in agriculture fields. Pesticide destruction of the soil, which lowers the efficiency of the field increasing the soil vulnerability to pests. The data collected may be used to update the farmer's user about type & quantity of pesticide required by the crop.

Smart farming based on IoT technologies enables growers and farmers to reduce waste and improve crop yields, ranging from the quantity of fertilizer utilized to the number of hours required to tend farm roads, and enabling efficient utilization of resources such as water, electricity, etc.

The biggest challenges faced by IoT in the agricultural sector are lack of awareness, high adaption costs, IoT security concerns, etc. Most farmers are not aware of the implementation of IoT in agriculture.

SELVA BHARTHI A

IoT in agriculture uses robots, drones, remote sensors, and automation. Farmers work with continuously programming machine learning and analytical tools for monitoring crops, surveying, and mapping the fields, and supplying the farmers for optimal farm management plans to save both time-autonomy.

One of the benefits of using IoT in agriculture is the broad-ranging of the processes. Thanks to real-time monitoring and prediction systems, farmers can quickly respond to any significant change in weather, humidity, and pests as well as the health of each crop on a farm the field.

Janani R

Remote-sensing in agriculture is revolutionizing the way data is acquired from different nodes:a Giant IoT based remote sensing utilizes sensors placed along with the farm.Our weather stations for farmers are a great way to accumulate meaningful data for analysis

Sensors placed along the farm monitor the crops for changes in light, humidity, temperature, shape, and size. Any anomaly detected by the sensors is analyzed and the farmer is notified. Thus remote sensing helps farmers detect the spread of diseases and serve as eye on the growth of crops.

The data collected by sensors is sensed humidity, temperature, moisture characteristics, and data analysis helps farmers to find the best pattern in farms and what cultivation is done for suitable crops.

Mathumitha R

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, ensuring consumers' changing tastes and expectations. Meet the demand for more food of higher quality linked to farm productivity.

Role of the digital innovation ecosystem in the farming industry is the selection of the best IoT solution for farmers.

Farmers dedicated self-provide resources or the farmers can rely on the IoT enterprises and Technological Innovation Ecosystem that provides their being resolved

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.

3 Group ideas

20 minutes

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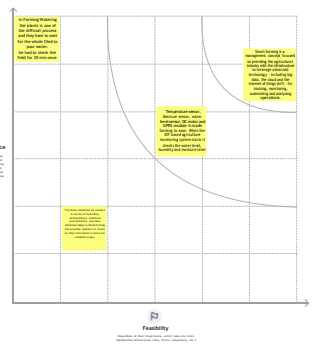
4 Prioritize

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