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

HARINI R

majority of Indian farmers use traditional tools for farming, which is tough work. Also, they lack in the knowledge of energy and manpower and loss post-harvest production due to poor 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 value and other areas of soil, such as texture, quality, or acidity. This allows to adjustment of the soil to suit the needs of the crop to be cultivated.

KAVITA V

Overuse of pesticides and fertilizer in agriculture fields leads to deterioration of the soil quality and reduces the efficiency of the field - increasing the soil vulnerability to pests. Smart farming may be used to update the farmers user-about type & quantity of pesticide required by the crop.

Smart farming based on IoT technologies monitor growers and farmers to reduce waste and increase productivity, ranging from the quantity of fertilizer utilized to the number of pesticides required, labor needs, and making efficient utilization of resources such as water, electricity, etc.

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

HARINI R

IoT in agriculture uses robots, drones, remote sensors, and automation. IoT devices along with continuously programing machine learning and analytical tools for monitoring crops, surveying, and mapping the fa

KAVIYAPRIYA S

Remote sensing in agriculture is revolutionizing the way data is acquired from different locations. Smart farming remote sensing utilizes sensors placed along with the farms the weather stations for gathering data, which is transmitted to analytical tools for analysis.

Sensors placed along the farms monitor the crops for changes in light, humidity, temperature, and soil moisture. Accurate sensing demanding the sensors is analyzed and the farmer is notified. Thus remote sensing can help prevent the spread of diseases and keep an eye on the growth of crops.

The data collected by sensors in method humidity, temperature, moisture and other factors helps in determining the weather patterns in farms so that cultivation is done for suitable crops.

One of the benefits of using smart farming is the increased agility of the processes. Thanks to real-time monitoring and prediction systems, farmers can quickly respond to any significant change in weather, humidity, or other factors that may affect of each crop or soil in the field.

KIRANMAKSHANA T

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. Satisfy consumers' changing tastes and expectations. Meet demand for food security. Avail of higher quality, tested in farm productivity.

Also, all the digital elements, sensors, Drone farming, Helps in the attention on the farm, Data, IoT, Robots, Artificial, Basically, will provide resistance to the farmers, Also, it will be an advantage and the protection from being exploited.

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.

Group ideas

20 minutes

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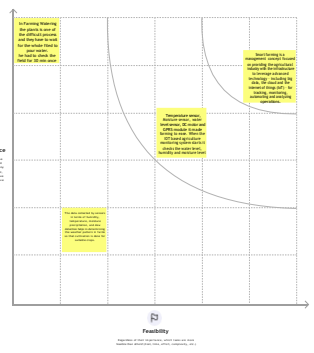
Prioritize

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