Ideation Phase
Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID44658
Project Name	Project – Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

Step-1: Team Gathering, Collaboration and Select the Problem Statement

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

Write down any ideas that comes to mind that address your problem statement

⏱ 10 minutes

3

Group ideas

⏱ 20 minutes

ABBARNA N

Majority of indian farmers use traditional tools for agriculture such as plough,tickle etc.This leads to the wastage of energy and manpower and less yield per capita labour force.

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

Soil health analysis helps in determinining the nutrient value and drier areas of farm,soil drainage capacity,or acidity,which allows to adjustment of the amount of water needed for irrigation

DEEPA T

Overuse of pesticides and fertilizer in agriculture fields leads to destruction of the crop as well as reduces the efficiency of the field increasing the soil vulnerability toward pest.

Smart farming based on IoT technologies enabled growers and farmers to reduce waste and enhance productivity ranging from the quantity of fertilizer utilized to the number of journeys the farm vehicles have made

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

NIVETHA K

Remote sensing in agriculture is revolutionizing the way data is acquired from different nodes in a farm IoT-based remote sensing utilizes sensors placed along with the farm like weather stations

Sensors placed a long the farms monitor the crops for changes in light,humidity,temperature,shape and size.Any a normaly detected by the sensors is analysed and the farmer is notified.

The data collected by sensors in terms of humidity,temperature, moisture precipitation and dry detection helps in determining the weather pattern in farms so that cultivation is done for suitable crops.

SUBHASHINI N

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

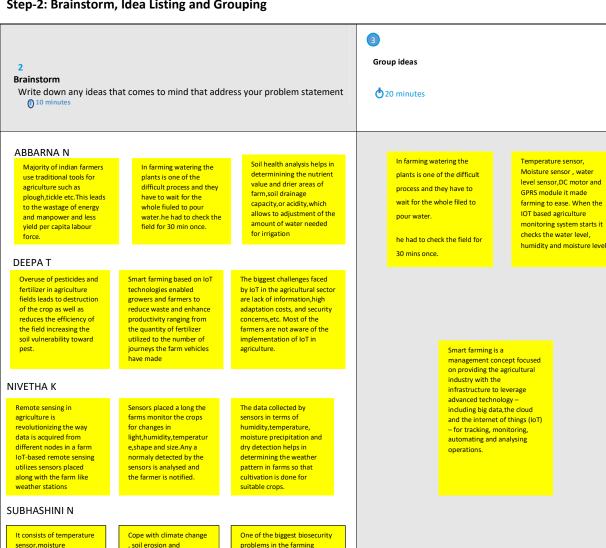Cope with climate change , soil erosion and biodiversity loss,satisfy consumers changing expectations. Most rising demand for more food of higher quality. Invest in farm productivity.

One of the biggest biosecurity problems in the farming history is the infection of the feck of birds or herd of animals. Biosecurity will provide resistance to the environment. They will give anbiotics and immunizations to prevent the aniamls from being infected.

In farming watering the plants is one of the difficult process and they have to wait for the whole filed to pour water.

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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 analysing operations.

Step-3: Idea Prioritization

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

♡ Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

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Ideal

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⚐ Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)