Ideation Phase
Brainstorm & Idea Prioritization Template

Date	31 October 2022
Team ID	PNT2022TMID43889
Project Name	IOT ENABLED SMART FARMING APPLICATION
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

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

We have followed the first step of brainstorming,we have discussed as a team to decide a problem statement .
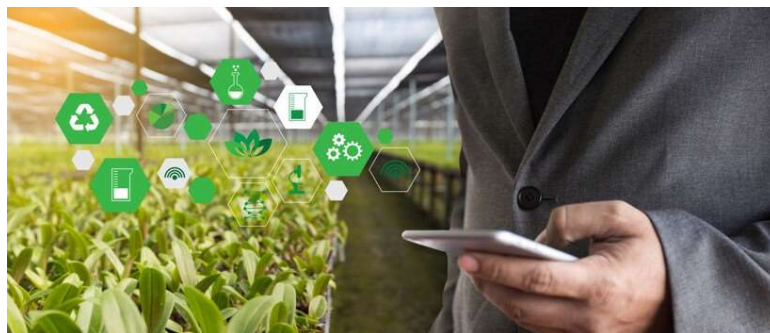
As per the guideline the following is done

- ➢ TEAM GATHERING
- ➢ COLLABORATION
- ➢ DECIDING THE PROBLEM STATEMENT

PROBLEM STATEMENT :

Farmer who works in the field performs agriculture techniques to main crop growth and efficient output but becomes frustrated due to tedious job.

Step-2: Brainstorm, Idea Listing and Grouping

   Brainstorming is done to have a discussion on how we solve the problem as with many people we can have wider perception rather figuring it alone ,So we had a discussion to inorder to have a overview of our perception of the problem.

BRAINSTORMING:

TEAM MEMBER	MEMBERS OPNION	IDEAS
JAYARAMACHANDRAN R	MAY GIV… ▾	Collecting various sensor values and reporting to the farmer through website
DILUXSAN S	GOOD ▾	Collecting values from sensors and gives alarm through buzzers when the threshold is met.
VISHNU VARTHAN E	BEST ▾	Collecting various sensor values and reporting to the farmer through application
JAGATHEESWARI S	COSTLY ▾	Automatic irigation control (on&off) and other actions should be done automatically.

BY GROUPING IDEAS:

➢ We have planned to use moisture sensor ,humidity sensor for detection
➢ The values when surpasses the threshold value will sent a notification to farmer
➢ The notification is also sent incase of emergencies

Step-3: Idea Prioritization:

Prioritization Matrix

1) Using sensors like humidity ,moisture sensor inorder to detect the nature of crops
2) The sensors are connected to IOT application inorder notify the farmers
3) Use other sensors if required for the particular crops ,like tea plantations
4) Using automation without the knowledge of famers or human resource