Ideation Phase
Brainstorm&Idea Prioritization Template

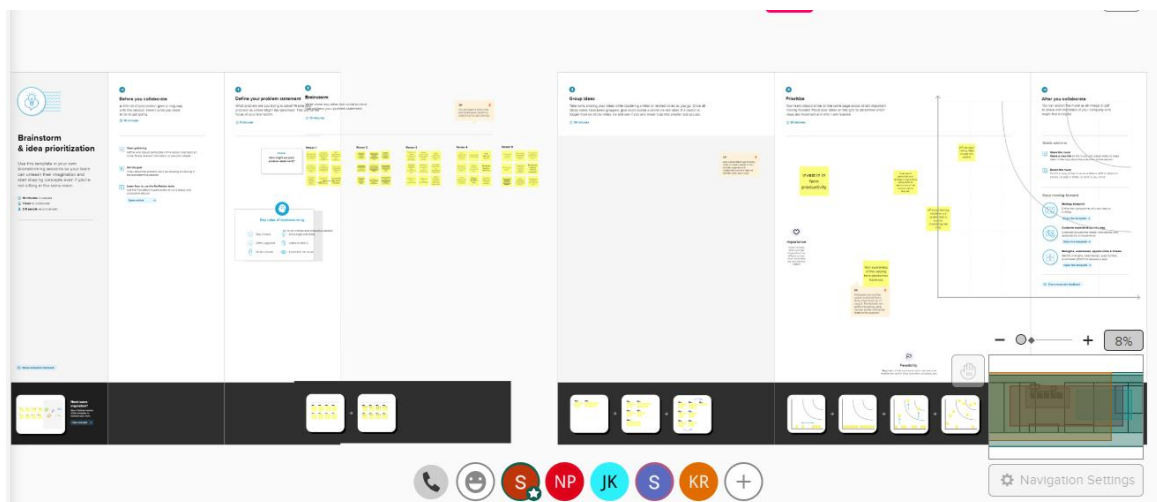| Team ID	PNT2022TMID44437
Project Name	Smart Farming IOT Enabled Smart Farming Application

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.

Reference: https://www.mural.co/templates/empathy-map-canvas

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

Step-2: Brainstorm, Idea Listing and Grouping

Person 1

Maintaining Idea Storage Condition.

Soil Health Parameters Are Essential of Organic Cultivation.

IOT Application ,Provision For Live Guidance.

It Collect the Data Regarding the Location and health of their Cattle.

Greenhouse Farming is a Methodology Helps in enhancing the yield fruits,crops etc

IOT has been making deep inroads into sectors

If we can get Important Parameterrs during different stages of collections

Storage abd Transport practices can be improved.

Improve the Self life of Produce

Person 2

Large farm owners can benefit from iot applications to collect data regarding the location, well-being, and health of their cattle.

. IoT applications can immensely benefit the farmers using greenhouse technology and make their work simple & easy

With use of IoT applications, storage and transport practices can be improved while improving the shelf life of produce.

Develop affordable app based solution for Soil health monitoring and suggest which crop to be sown based on it.

Develop system for predicting potential pest, disease, insect attacks (before at least 15-day & more) on Cotton crop and yield prediction of cotton.

Greenhouse farming is a methodology that helps in enhancing the yield of vegetables, fruits, crops etc.

IoT applications can provide solutions in maintaining the quality of food products and over all safety of the consumers.

IoT applications may be used to update the farmer/user about type & quantity of pesticide required by the crop.

IoT applications may assist in controlling the irrigation pump, opening and closing water flowing gates and also data logging the soil health conditions for present and future purpose

Person 3

Farmers are under pressure to produce more food

Remote monitoring and control system will help farmers

under watering causes crop stress

agricultural operations waste 60% water consumed each year

only 10% of irrigated farms use advanced water management decission tools

it is a very short return on investment time period

invest in in farm productivity

adapt and new technologies

satisfy consumer changing tastes and expectation

Person 4

Lack of information ,high adption costs, and security concerns

connectivity in rural areas

The learning curve

Non awareness of the varying farm production functions

size and individual management zones

Barriers to entry for new firms

Lack of scalability and configuration problems

Energy depletion risks

Technical failures and resultant demages

Person 5

Interoperability of different standards	IOT has been making deep inroads into sectors	Overuse of pesticides and fertilizer in agriculture fields leads to destruction of the crop as well as reduces.
the security factor	it requires an unlimited or continuous internet connection	farmers are under to product more food
the main objective to creat a problem statement is to improve the smart farming application everywhere.	smart agriculture farming system is a new idea of farming	IoT smart farming solutions is a system that is built for monitoring the crop.

Step-3: Idea Prioritization