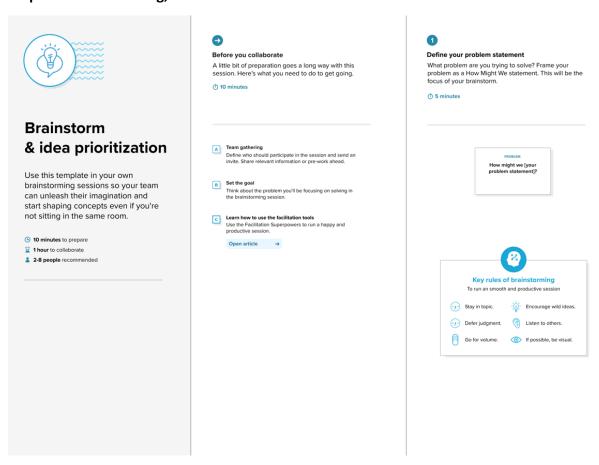
Ideation Phase Brainstorm & Idea Prioritization Template

Date	12 September 2022
Team ID	PNT2022TMID18045
Project Name	Project - IoT Based Smart Crop Protection System for Agriculture
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization:

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



Step-2: Brainstorm, Idea Listing and Grouping



Brainstorm

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

10 minutes

You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

Mariappan K

Use IoT devices to collect data Use weather report to avoid drought and water stagnant Use another motor and sensor to automatically move water from stagnant place.

Use flame sensor to detect field fire

Gopi Krishnan V

By using cloud service to store data

Use GSM module to alert farmers Provide visual support(field view) Automatic water sprinklers to reduce person overhead

KaniRaj S

Designing an user friendly interface. Predicting crop disease using machine/deep learning Spraying pesticides to avoid insects

Use node-red to create web and mobile application

Raja Kumaran G

Conduct regular quality and quantitative assessment Display all details in single page clearly and in understandable manner Using machine learning algorithm to detect weeds in crop field

Use RS485 to detect accurate soil moisture

Saravanan B

Use decision making theory to automate task. Setup in water supply can improve productivity Show recommendation based on crop growth to maximize production.

Detected animal photos can viewed in web/mobile applicatioin.



Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

① 20 minutes

Use flame sensor to detect field fire Detected animal photos can viewed in web/mobile applicatioin. Conduct regular quality and quantitative assessment Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

Using machine learning algorithm to detect weeds in crop field

Designing an user friendly interface.

Use GSM module to alert farmers

By using cloud service to store data

Use weather report to avoid drought and water stagnant

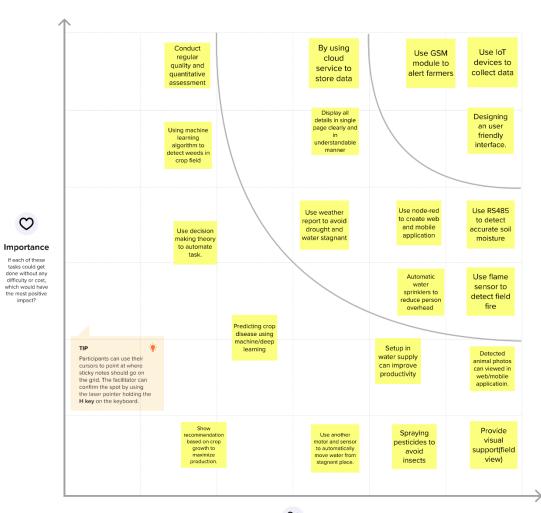
Step-3: Idea Prioritization



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.

0 20 minutes



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Feasibility

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