

**IDEATION PHASE
BRAINSTORM & IDEA
PRIORITIZATION**

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| Date | 08 November 2022 |
| Team ID | PNT2022TMID22667 |
| Project Name | Fertilizers Recommendation System for Disease Prediction |



Fertilizer Recommendation System for Disease Prediction

Agriculture is the most important sector in today's life. Most plants are affected by a wide variety of bacterial and fungal diseases. Diseases on plants placed a major constraint on the production and a major threat to food security. Hence early and accurate identification of plant diseases is essential to ensure high quantity and best quality. In recent years, the number of diseases on plants and the degree of harm caused has increased due to the variation in pathogen varieties, changes in cultivation methods, and inadequate plant protection techniques.



10 minutes to prepare

1 hour to collaborate

2-5 people recommended

→



Before you collaborate
A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes

A Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

B Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.

C Learn how to use the facilitation tools

Use the Facilitation Superpowers to run a happy and productive session.

Open article →



Define your problem statement
What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

minutes

PROBLEM

- 1) In agricultural aspects, if the plant is affected by leaf disease, then it reduces the growth and productivity. Generally, the plant diseases are caused by the abnormal physiological functionalities of plants.
- 2) People who Grow Crops and facing Issues of Plant Disease .
- 3) The Traditional methods of Fertilizer prediction and Disease analysis are Expensive and takes a lot of time .

Key rules of brainstorming

To run a smooth and productive session

- Stay in topic.
- Encourage wild ideas.
- Defer judgment.
- Listen to others.
- Go for volume.
- If possible, be visual.



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

minutes

TIP
You can select a sticky note and hit the pencil icon to sketch (icon to start drawing)

Thulasimani

- Website for Fertilizer recommendation
- Identify the disease
- Determining best fertilizer
- Pre-trained model for image classification

Ramesh Kanna

- Build keras image classification model
- Making revolutionary changes in agriculture field

- User friendly website
- It reduces man power
- Smart solution to solve the problem
- It simplifies the farmers work
- Cost of using this application is less
- They can find the diseases at early stages

Kirubakaran

- Deep learning based mathematical model for detecting diseases
- Early detection and management of problem
- Better utilization of available resources
- Fertilizer Recommendation
- Instant solution
- Useful to people with no prior knowledge
- Interactive user interface to upload images
- Improves productivity
- Interactive user interface to upload images
- Admin can view the recommended fertilizer through gmail
- It will save time
- Portal for farmers

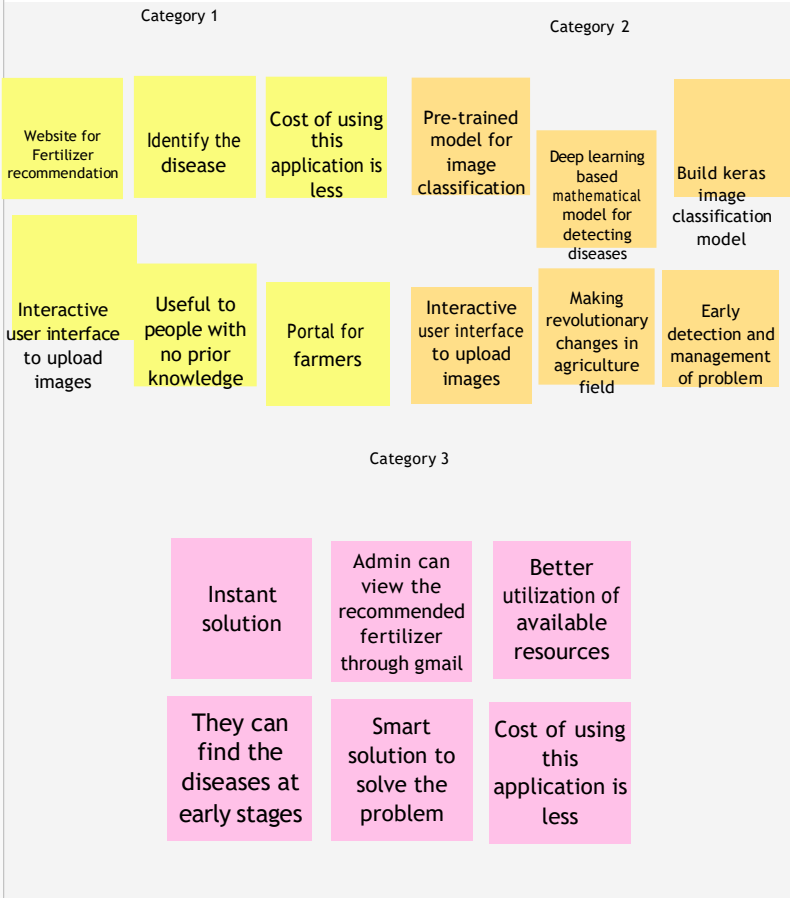
Prasanth

- Useful to Farmers
- Recommends Fertilizers
- Utilizing of Resources
- Simple UI
- Reduces the Cost
- Improves profit

Group ideas

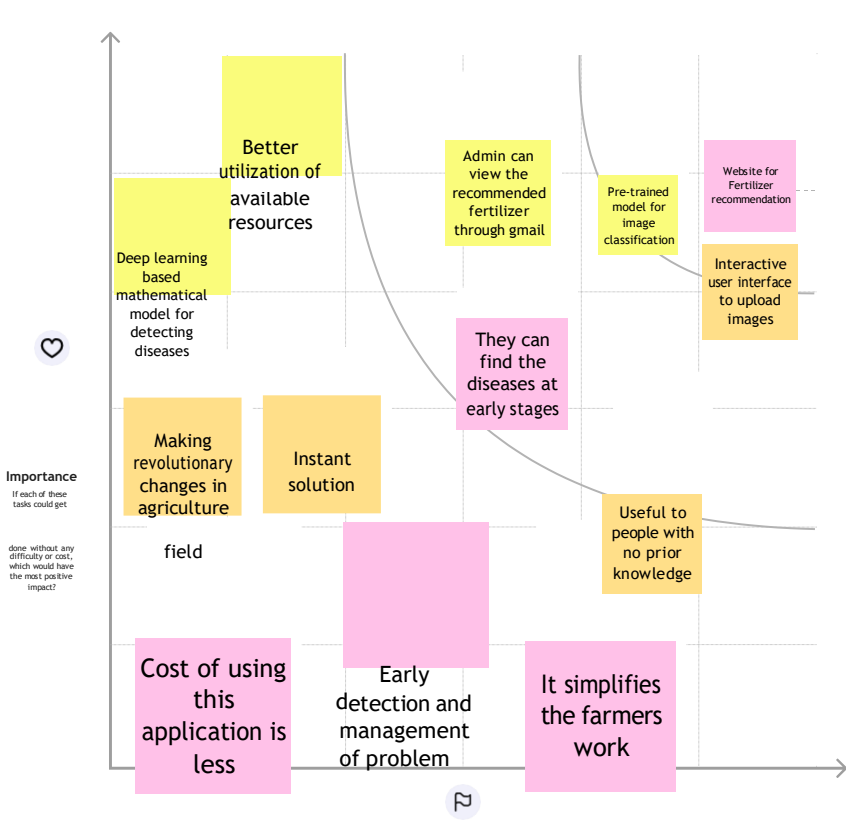
Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

20 minutes



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.

minutes



After you collaborate
You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons



Share the mural
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.



Export the mural
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.



Keep moving forward
Strategy blueprint
Define the components of a new idea or strategy.



Open the template
Customer experience journey map



Understand customer needs, motivations, and obstacles for an experience.
Open the template →



Strengths, weaknesses, opportunities & threats
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.



Open the template



Share template feedback

