

Ideation Phase


Brainstorm & Idea Prioritization Template

Date	15 October 2022
Team ID	PNT2022TMID33289
Project Name	Fertilizer Recommendation System for Disease Prediction
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.

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



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 production techniques.

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.

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](#) →

1 Define your problem statement

Usage of wrong fertilizer for the crops in the inappropriate situation. Agriculture is the only primary source of income for the farmers but, it is getting affected by the above problem which results in loss of income.

PROBLEM

Minimize the disease on plants using cheap fertilizers, which are not to interfere with the soil and to not harm the crops.

2/3/2022 10:00 AM - 10:30 AM

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.

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

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

Anandh S

Website for Fertilizer recommendation

Identify the disease

Determining best fertilizer

User friendly websites

Smart solution to solve the problems

It reduces man power

Akash K

Tested fertilizers is Recommended

Disease update

Use GPS to find location current weather information to suggest the weather Pesticides

Pre-trained model for image classification

Agriculture testers available

Build keras image classification model

Hariharan P

Tested Articles also updated

Voice assistant or voice Recognition

Image Recognition

Easy access to Resource

Cost of using this application is less

It simplifies the farmers work

Hariharasudhan J V

Deep learning based mathematical model for detecting diseases

Improves productivity

Admin can view the recommended fertilizer through gmail

Interactive user interface to upload images

Better utilization of available resources

Interactive user interface to upload images

3

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 can break it up into smaller sub-groups.

Category 01

Admin can view the recommended fertilizer through gmail

Build keras image classification model

They can find the diseases at early stages

Category 02

Useful to people with no prior knowledge

Interactive user interface to upload images

Farmer can upload plant image to our web application then it will identify information of a plant to use database, machine learning techniques and also the suggestions of the plant disease recovery pesticides

Category 03

Enter the soil type to get the Recommendation for Seeds.

Instruction Seduled fertilizer

Different Countries Farming techniques with update

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

