

## Ideation Phase

### Brainstorm & Idea Prioritization Template


Date	17 September 2022
Team ID	PNT2022TMID30319
Project Name	Project - Fertilizers Recommendation System For Disease Prediction
Maximum Marks	4 Marks

#### Brainstorm & Idea Prioritization Template:

Reference:

<https://app.mural.co/invitation/mural/vickyg9846/1664038363528?sender=u424bdabf5d969745fe7f0666&key=3eace548-a8cb-4ff6-a00d-91c495ba1383>

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



### Brainstorm & idea prioritization

Fertilizers Recommendation System For Disease Prediction

🕒 10 minutes to prepare  
🕒 1 hour to collaborate  
👤 2-8 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

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**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](#) ➔

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#### 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.

🕒 5 minutes

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In this Problem Statement we know about the farmers problem of difficult to find the actual disease affected in the any kind of leaves and it leads to big economical losses of an every country.

**Key rules of brainstorming**  
To run an 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.

10 minutes

Tip: Think about a sticky note for each idea you have. Write the problem statement on the sticky note and stick it to the wall.

### 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 "What if a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups."

10 minutes

#### Vignesh G

Preprocess the Input Image

Extract the images

Using CNN model and deep learning algorithm to predict disease

To Give Economical Solution to The Farmers

#### Goutham D

If a plant leaf is found to be affected, the plant is unhealthy.

OpenCV library is used to detect the disease of the plant. It is developed.

An image classifier that uses a neural network to detect the disease of the plant. It is developed.

A neural network was used instead of other forms of artificial intelligence.

In recent times, more and more farmers are being educated.

#### Prathap S

The early detection of plant disease is crucial.

ANN classifier is made used for classification

Preprocessing and Dataset

ML is likely to be a good option

Farming is one of the main occupations in India

The identification of disease in plants is a very tough task.

Classify leaf images

#### YuvaPrakash K

Load all type of leaf

Modern learning method for the plant is required to be healthy.

The disease in crop plants affects agricultural production.

#### Using Of Artificial Intelligence

We can use AI to implement the farming in modern technology.

An machine language is to good for the analysis the data set.

Collect the input samples

AI is used for their continuous plant monitoring.

#### SVM

It classifies the extraction Images

It is used for classify the images and predict actual disease

SVM classifier predict the disease and used for maching learning

#### Using of CNN

To use of CNN to predict the disease in algorithm based

CNN of deep learning Algorithm

Using CNN to process the images

#### Using application

it is very economical and easy to manage

it shows the disease and fertilizers

In everywhere we can know the affected disease

## 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.

10 minutes

### 5 After you collaborate

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

#### Quick add-ons

- Share the report** Share a share link to the report with stakeholders to keep them in the loop about the outcomes of the session.
- Export the report** Export a copy of the report as a PDF or PNG to share to emails, social media, or print to your desk.

#### Keep moving forward

- Strategy Blueprint** Define the components of a new idea or strategy. [Open the template](#)
- Customer experience journey map** Understand customer needs, behaviors, and emotions for an experience. [Open the template](#)
- Strengths, weaknesses, opportunities & threats** Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan. [Open the template](#)

[Show template feedback](#)

#### Importance

Rank ideas based on their importance and place them on the grid. The more important the idea, the higher it should be placed.

#### Feasibility

Rank ideas based on their feasibility and place them on the grid. The more feasible the idea, the further to the right it should be placed.

Collect the input images

Preprocess the images

Extract the images

open CV for continuous plant monitoring using AI

After extraction the images sent to the svm classifier

Using CNN of deep learning algorithm

Create APP for disease prediction of plant

The world full of fill with modern technology except farming