


IDEATION PHASE

BRAINSTORM & IDEA PRIORITIZATION TEMPLATE

Date	14 September 2022
Team ID	PNT2022TMID54027
Project Name	Estimate the crop yield using data analytics
Maximum Marks	4 Marks




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

Template



Brainstorm & idea prioritization


Estimate the Crop Yield
using Data Analytics

 20 minutes
 1 hour
 4 people

1


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


PROBLEM


Crop yield prediction is one of the important factors in agriculture practices. Farmers need information regarding crop yield before sowing seeds in their fields to achieve enhanced crop yield. The use of data analytics is one such trend that has penetrated into the agriculture field. So that the yield prediction needs to be done to benefit the farmer in reducing their losses and to get best prices for their crops.


**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

AI SWARYA A

- To know about the fertility of the soil
- To know about the climatic changes
- To get a healthy crop
- To develop more resources for precision agriculture to learn easily
- To make use of the efficient data and to predict accurately

ARUL SUNDARI A

- To learn about the types of soil
- To learn about the climatic conditions as the agriculture depends on it
- Continuous checking of the growth of the crop
- To spread the use of technology in agriculture to all people
- Ready to use anywhere

JESSICA SUSAN J

- A deep knowledge about the conditions of the soil is required
- To know which climate gives a better yield
- To have a future prediction of the crop yield
- To educate the farmer about the precision agriculture
- Data for the climatic changes in the different environment

MARI PRIYA B

- To know which soil should be used
- To have the previous climatic data for better prediction
- To analyze the crop yield before sowing seeds
- To start classes to know about the technology
- To have the data for the previous crop yield

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.

🕒 20 minutes

Soil Details

- To know about the fertility of the soil
- To learn about the types of soil
- A deep knowledge about the conditions of the soil is required
- To know which soil should be used

Climatic Conditions

- To know about the climatic changes
- To learn about the climatic conditions as the agriculture depends on it
- To know which climate gives a better yield
- To have the previous climatic data for better prediction

Crop Yield

- To get a healthy crop
- Continuous checking of the growth of the crop
- To have a future prediction of the crop yield
- To analyze the crop yield before sowing seeds

Educating

- To develop more resources for precision agriculture to learn easily
- To spread the use of technology in agriculture to all people
- To make use of the efficient data and to predict accurately
- Ready to use anywhere

Required Data

- To educate the farmer about the precision agriculture
- To start classes to know about the technology
- Data for the climatic changes in the different environment
- To have the data for the previous crop yield

Step-3: Idea Prioritization

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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

