

Ideation Phase

Brainstorm & Idea Prioritization Template

| | |
|---------------|--|
| Date | 19 September 2022 |
| Team ID | PNT2022TMID13569 |
| Project Name | Estimate the crop yield using data analytics |
| 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.

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.




Reference: <https://www.mural.co/templates/empathy-map-canvas>


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



Brainstorm & idea prioritization


Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.


 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

 **Team gathering**


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

 **Set the goal**

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

 **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

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 technology in agriculture has increased in recent years and data analytics is one such trend that has penetrated into the agriculture field being used for management of crop yield and monitoring crop health.

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



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

Person 1

| | | |
|-----------------------------|--|---------------------------------------|
| usage of manure | climate change | problems with extreme weather reasons |
| collecting the seed's price | estimation of crop's price | quantity of manure to be used |
| using the solar energy | due to heavy rainfall crops may damage | over use of fertilizers and manures |

Person 2

| | | |
|---------------------------------|-----------------------------------|----------------------------------|
| Industrial pollution | quality of seeds | how to recycle the waste |
| predicting the quality of soils | using the wind energy | farmer's budget |
| poor storage facilities | predicting the weather conditions | managing profit or loss criteria |

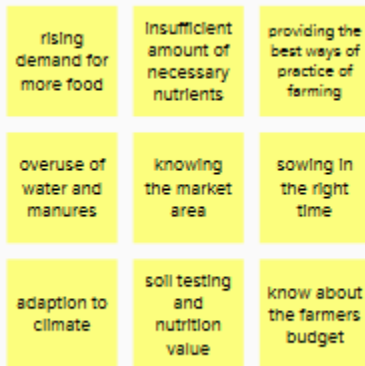
Person 3

| | | |
|--------------------------------------|----------------------------------|--|
| quantity of fertilizers used | to remove the weeds on the field | decrease of soil fertility |
| providing knowledge about harvesting | heat and drought | Irrigation |
| protecting the environment | crop may get damage | knowing how much nutrients does the crop has |

Person 4

| | | |
|---|----------------------------------|----------------------------|
| buying relevant tools | quantity of water to be supplied | biodiversity affects |
| predicting the natural calamities | fertilizers quality | deterioration of soil |
| giving the health conditions to cattles and animals | using more chemical fertilizers | manage the climate changes |

person 5

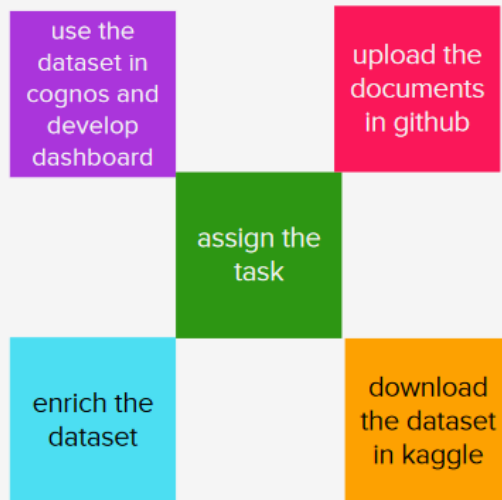


3

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



TIP



Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

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

