

Ideation Phase Brainstorm & Idea Prioritization Template


Date	15 September 2022
Team ID	PNT2022TMID15396
Project Name	Predicting the energy output of wind turbine based on weather condition
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

Template



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

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➦

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

1

Team gathering

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

2

Set the goal

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

3

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

How might we predict the energy output of wind turbines based on weather condition?

2

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

ELAVARASAN S

Check wind direction and wind Speed in different outdoor temperature

Analyze model performance on different side

Number of windmills in a wind farm contribute to energy output

GANDHIKUMAR S

Air Density which is more important than having high winds

Blade Radius influence the power output of turbines

Low temperature contributes high energy output

GOWSIK M P

Rain decreases the rotational speed of wind turbine.

Control systems involves sensors and actuators

Wind turbine generator requires reliable control systems

HARISH KUMAR S

Temperature gradients cause high wind speed than normal

Diameter of a turbine motor plays a major role

Too little wind produces low electricity

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.

Excellent conversion
efficiency

Wind power occupies
very little area

The environment
impact is minimal

A green source that is
truly economical

Wind power is a clean
and renewable energy
source

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

