


Ideation Phase

Brainstorm & Idea Prioritization Template

Date	07 October 2022
Team ID	PNT2022TMID17876
Project Name	Predicting the energy output of wind turbine based on weather condition
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization

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

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

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 [your problem statement]?

Key rules of brainstorming

To run a smooth and productive session

1

Stay in topic.

2

Defer judgment.

3

Go for volume.

4

Encourage wild ideas.

5

Listen to others.

6

If possible, be visual.

Step-2: Brainstorm, Idea Listing and Grouping

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!

MENAGA DEVI

Improving the use of resources.	It produces no toxic pollution.	Water turbine turbines are robust.
Reduces electrical demand.	To reduce operational costs.	Functioning well along based on the weather condition factors.
Low O&M taken for production.	Done by using machine learning techniques.	Large dataset needed for better accuracy.

MAHALAKSHMI

Important part of electricity generation.	New turbine as innovative solution that is better than others.	Wind turbine does not generate noise.
Functioning well along based on the weather condition factors.	More consistent with other renewable energy sources.	It is compact and does not take up a lot of land space.
Reduces energy inputs.	Wind energy has one of the lowest costs of production.	Wind turbine produces more electricity.

HARSHINI M

It is renewable as well as abundant source.	It is a clean form of energy.	It is sustainable.
Creates wealth and local employment.	It does not release any carbon emission.	Reduces energy input.
Reduces use of fossil fuel.	Predicts the output power.	Regulates the output power to meet the power demand.

Juno Florn

Based on water turbine water turbine is a renewable energy source.	Different wind speed can be considered.	Wind speed is not constant and varies with weather condition.
Water turbine is a renewable energy source.	It is not other dependent.	Intermittent power generation from wind.
Intermittent power generation from wind.	Intermittent power generation from wind.	Intermittent power generation from wind.

PRIORITIES

analyze weather conditions.	building model.	training model.
testing model.	future prediction.	short term energy output power.
analyzing weather conditions for a given location.	data driven machine learning for weather prediction.	weather data can also be predicted.

PRIORITIES

predicts the hourly future production.	different weather conditions may be predicted.	also predict the weather conditions for a given location.
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kiran

water power is a good effective.	Does not need maintenance.	water turbine is a good effective.
good in remote areas.	Does not require large space.	simple maintenance.
Excellent efficiency.	consistent in medium and large scale.	Renewable energy source.

GROUP IDEAS

water power is a good effective.	Does not need maintenance.	water turbine is a good effective.
good in remote areas.	Does not require large space.	simple maintenance.
Excellent efficiency.	consistent in medium and large scale.	Renewable energy source.

Step-3: Idea Prioritization

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 and break it up into smaller sub-groups.

🕒 20 minutes

3

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🕒 20 minutes

Predicting wind energy output is an important part of helping to determine whether or not to make overcost production.

Monitoring weather condition based analyses gives better accuracy on energy output power prediction.

YAP
Avalanche prevention is important for safety
because the weather is important for safety
because it is important, and
because it is important for safety
because it is important for safety

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

4

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🕒 20 minutes

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc)

TIP

Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the 1st lay on the lay board.

➕

After you collaborate

You can export the mural to share with members who might find it helpful.

Quick add-ons

- Share the mural

Share a view link to it with them in the loop about
- Export the mural

Export a copy of the mural as a PDF, include in slides

Keep moving forward

- Strategy blue

Do fine the co strategy.

Open the s
- Customer ex

Understand c obstacles for

Open the s
- Strengths, w

Identify stron and threats (

Open the s

🔗 Share template feedback