

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	11 October 2023
Team ID	
Project Name	Solar Panel Forecasting
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.


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


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
Accurately predicting solar panel energy output in real-time and for future timeframes remains a significant challenge. Existing forecasting methods often fall short in providing precise predictions due to factors like dynamic weather conditions, variable energy consumption, and the need for localized data. Improving solar panel forecasting is essential for optimizing energy production, ensuring grid stability, and maximizing the utilization of renewable energy sources.


**Key rules of brainstorming**
To run a 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

TIP You can select a sticky note and hit the pencil (switch to sketch) icon to start drawing.

RUPA KOWSHIKA

- Statistical Correlation
- Public Awareness Campaigns
- Weather Modification Technologies
- Historical Data Analysis

RATNAKAR

- Dynamic Panel Angles
- Regulatory Incentives
- Predictive Maintenance Algorithms
- Solar Farm Microgrids

SHREYA

- Enhanced Weather Data Integration
- Open-Data Platforms
- Real-time Data Feedback Loops
- Data Privacy and Security

RASHMITHA

- Energy Storage and Grid Integration
- Community Solar Initiatives
- Continuous Research and Testing
- Quantum Computing (long-term research)

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

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

Data and Model Improvement:

Technological Enhancements:

Collaboration and Outreach:

Enhanced
Weather
Data
Integration

Historical
Data
Analysis

Dynamic Panel Angles

Energy
Storage and
Grid
Integration

Stakeholder
Collaboration

Public Awareness Campaigns

Real-time
Data
Feedback
Loops

Predictive Maintenance Algorithms

Open Data Platforms

Regulatory Incentives

Research and Development:

Community Engagement

Cutting-Edge Technologies

Privacy and Security

Continuous
Research
and Testing

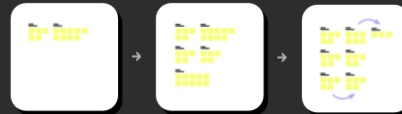
Quantum Computing (long-term research)

Community
Solar
Initiatives

Microgrid Solutions

Data Privacy and Security

Weather
Modification
Technologies
(long-term
research)



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

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 H key on the keyboard.

