Ideation Phase
Brainstorm & Idea Prioritization Template

Date	15 February 2026
Team ID	LTVIP2026TMIDS62246
Project Name	Weather-Based Prediction of Wind Turbine Energy Output: A Next-Generation Approach to Renewable Energy Management
Maximum Marks	4 Marks

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

Step-2: Brainstorm, Idea Listing and Grouping

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Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕐 10 minutes

TIP
Yes, can select a sticky note and hit the pencil (switch to sketch) icon to start drawing!

Person 1

Person 2

Person 3

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

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 Preprocessing
- Handle missing values
- Rename columns
- Feature selection
- Correlation analysis

Model Development
- Linear Regression
- Random Forest
- Hyperparameter tuning
- Train-test split

Web Application
- Flask integration
- HTML form
- Prediction display
- CSS styling

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**

Importance

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

- Deep Learning Model
- Real-time Weather API
- Cloud Deployment

- Random Forest Regression
- Flask Web Application
- Train-Test Split (80/20)
- R^2 Evaluation
- Input Validatio

- Blockchain Integration
- IoT Hardware Integration
- Complex Big Data Pipeline

- Extra UI Animations
- Additional Graph Styling
- Minor UI Enhancements

Feasibility

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