

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	28 th October 2023
Team ID	TEAM-592016
Project Name	Smart Home -Temperature Prediction
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 number 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://app.mural.co/t/vitap7264/m/vitap7264/1700296466447/95cc59455d40062883ab738920a2d6c7d76ab549?sender=ud74c88dfe4d953863c363232>

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




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


In this context of smart homes, the effective management of temperature is one of the most important aspects. There is a challenge to developing a model that can accurately forecast indoor temperatures within a smart home environment. External weather conditions, time of day, and historical temperature data are some of the factors that should be taken into account. Less features available.





Key rules of brainstorming


To run an smooth and productive session


 Stay in topic.

 Defer judgment.

 Go for volume.

 Encourage wild ideas.

 Listen to others.

 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

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

Samhitha

- Machine Learning models
- Integration with Weather's API
- seasonal adaptation feature
- User Behaviour Analysis
- solar energy consideration

Abhilash

- Occupancy Sensors
- Smart Thermostats with AI
- energy pricing
- Integration with Calender App's
- integrate calendar and time

Hinduja

- Predictive Analysis
- Voice controls
- Utilize localized weather forecasts
- AI Assistants
- Predictive notifications

Harsha

- Energy consumption Optimization
- Feedback Loop
- Integration with health data
- Open-AI-for-Third Party Intergration
- Personalized Thermal comfort profiles

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.

1

Using CNN to
predict the
temperatures

2

Creating a
web
application

3

Personalized
Thermal
comfort
profiles

Step-3: Idea Prioritization

4

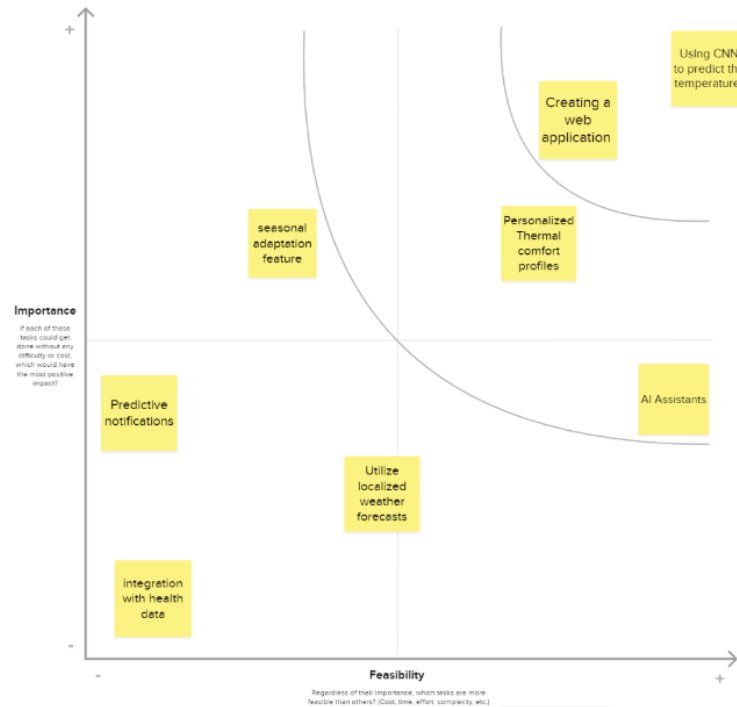
Prioritize

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 story notes should go on the grid. The facilitator can confirm the spot by using the laser pointer (holding the **H** key on the keyboard).



→




After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

- 1 **Share the mural**
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.
- 2 **Export the mural**
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward

-  **Strategy blueprint**
Define the components of a new idea or strategy.
[Open the template →](#)
-  **Customer experience journey map**
Understand customer needs, motivations, and obstacles for an experience.
[Open the template →](#)
-  **Strengths, weaknesses, opportunities & threats**
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
[Open the template →](#)