

Ideation Phase

Brainstorm&Idea Prioritization Template

Date	25 September 2022
Team ID	PNT2022TMID42431
Project Name	Real-Time River water Quality Monitoring and Control System
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.

Reference:

<https://app.mural.co/t/iotbasedsafetygadgetforchild8158/m/iotbasedsafetygadgetforchild8158/1663809837243/610e8e439fba bde5971d4eccaf87105a017dbc28?sender=u7b4f3a2f9e0753f217cb1018>

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

A

Team gathering

Define who should participate in this 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

 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

ABRAVIND

Using Turbidity sensor

Using pH sensor

Stream flow measurement

The water chemical quality sensor

Alarm in control

Fluorescence sensor

Using chlorophyll sensor

Finding nitrogen level

For monitoring dissolved oxygen in water quality

To measure the amount of particulate matter floating in water

Salinity detection sensor

To find Lead ion level in water

Temperature sensor

Digital output

Electrical conductivity sensor

Oxidation-reduction potential sensor

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

SENSOR

Using Turbidity sensor

Using pH sensor

Temperature sensor

Salinity detection sensor

Electrical conductivity sensor

Using chlorophyll sensor

Oxidation-reduction potential sensor

WATER MONITORING

For monitoring dissolved oxygen in water quality

To measure the amount of particulate matter floating in water

Stream flow measurement

To find Lead ion level in water

DETECTION

Alarm in control

Finding nitrogen level

Digital output

Fluorescence sensor

The water chemical quality sensor

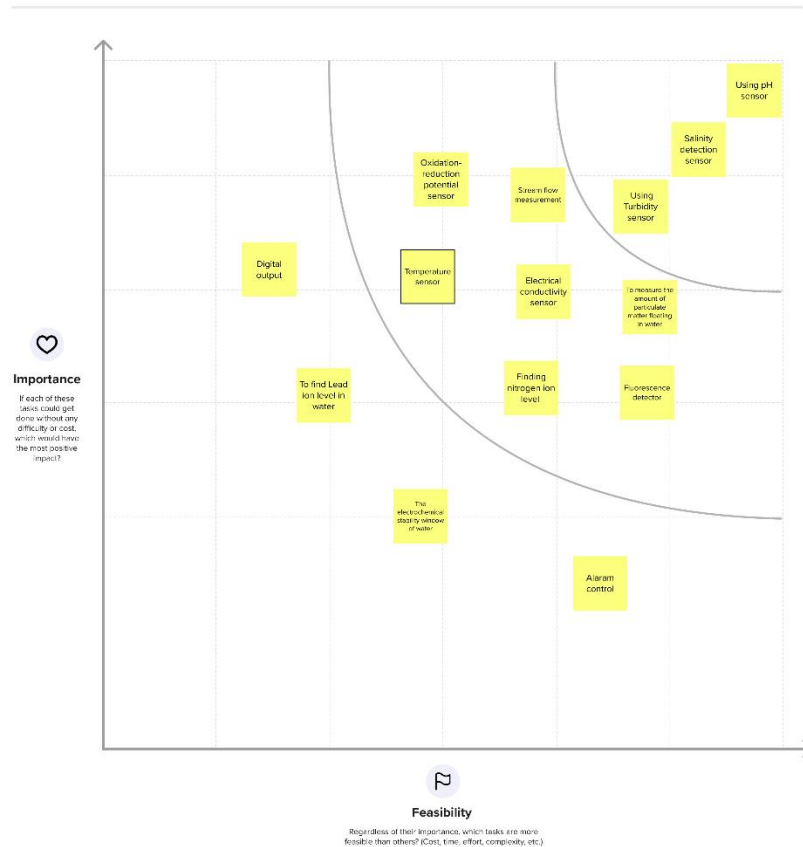
Step-3: Idea Prioritization

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



→

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

- A Share the mural**
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.
- B 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 →](#)

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