

Ideation Phase

Brainstorm & Idea Prioritization Template


Date	19 September 2022
Team ID	PNT2022TMID20019
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.

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



Brainstorm & idea prioritization

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🕒 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.

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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

TIP

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



ASHWIN NARAYAN PK

Collect samples of water from the rivers

Measure parameters like Ph, Turbidity, TDS of the samples

Analyze and set the threshold value

Use NodeMCU to interface with the sensors

GOKUL B

An application to notify the nearby people

Use geolocation GPRS to check the contaminated area

Alert the locals through WiFi

Collect and store the values in a cloud DB

KARTHIKEYAN G

Use the collected values and analyze

Find the relationship between the parameters

Plot the values in a graph

Analyze the graph and set the threshold values

BALA R

Use cloud service at the backend to store the data

Check for the best and efficient microprocessor that can be used

Analyze and check using different sensor modules available in the market

Develop a website for the locals to see the live date

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

