


Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID17403
Project Name	IOT Based Real-Time River Water Quality Monitoring and Control System
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization

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



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

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 an 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

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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!

Smitha Rajni T	Siva Sangeetha R	Gobika R M	Sharon S
Testing the quality of water from a remote location	Pollution of water can be investigated by a stringent mechanism	A wireless communication system is efficient	usage of different sensor to analyze the water quality
Monitoring water quality is very important for maintaining ecosystem health and the backbone of the population	Arduino controller is used to generate the reading	real-time database used for cloud server	SMS alert can be made incase of high values
the collected dat is analyzed and results are updated	different sensor can be used to access the water quality	cloud data can be retrieved anywhere and predictions can be done	current water quality monitoring system is cost and time consuming process
		advanced and automated sensor can give detailed insight about water quality	machine learning algorithms are used to draw conclusions on quality
		The state of the water is the result of man made activities	alarm can be triggered if the value goes beyond the limit
		Ensuring the safety of river water before consuming is best	Water quality monitoring is a cost-effective and
		Current water quality monitoring system is a manual system with a repetitive process and is very time consuming	sensors used maybe pH, temperature, salinity, turbidity, pressure, etc
		Determining the quality of the water reveals the health consequences that may happen	Remote monitoring of water quality is time saving
			The collected data can be stored in cloud platform

3 Group ideas

Take turns sharing your ideas while sticky notes have been grouped, or bigger than six sticky notes, try and

20 minutes

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- 2 Before you collaborate
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- 3 Define your problem ...
What problem are you trying to solve? Frame your problem as a "How might we..." stat
- 4 Brainstorm
Write down any ideas that come to mind that address your problem statement
- 5 Group ideas
Take turns sharing your ideas while clustering similar or related notes as you go. In this
- 6 Prioritize
Your team should all be on the

79°F Mostly sunny

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Step-3: Idea Prioritization

[illegible]

[illegible]