

# Ideation Phase

## Brainstorm&Idea Prioritization Template


Date	25 September 2022
Team ID	PNT2022TMID42440
Project Name	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

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  
👥 4 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

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- 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.

[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

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PROBLEM  
**Monitor and control the water quality**

**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.



**Need some inspiration?**  
See a featured version of this template to kickstart your work.

[Open example](#) ➔

## Step-2: Brainstorm, Idea Listing and Grouping

2

**Brainstorm**  
Write down any ideas that come to mind that address your problem statement.  
[10 minutes](#)

Karthika

Check the colour of water

Measuring dissolved oxygen levels(sawage)

Find Tensity of water

Purify the industrial waste

Measuring the temperature

Kannika

Water Lever Monitoring

Measure the rate of flow of water

Reporting of condition of water

Measure pH level of water

Email Alerts

Kaviya

Measure electrical conductivity

Measure salinity and Nutrients

SMS Alert

Measure Chemical properties

Drone Monitoring

Gayathri

Sewage Treatment and Recycle

Measure physical properties of water

Measuring harmful air pollutants

Camera Monitoring

Measuring the temperature

Gayathri Varshini

Turbidity Sensor

Drone Monitoring

Measuring harmful air pollutants

Camera Monitoring

Measuring the temperature

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

Measure alkalinity and Nutrients

Turbidity Sensor

Measuring harmful air pollutants

Measuring the temperature

Measure pH level of water

Measuring dissolved oxygen levels(sawage)

Measure Biological properties of water

Measure physical properties of water

Measure Chemical properties

Measure electrical conductivity

Check the colour of water

Water Monitoring

Water Lever Monitoring

Measure the rate of flow of water

Reporting of condition of water

Find Tensity of water

Measuring the temperature

Detection

Drone Monitoring

Email Alerts

SMS Alert

Camera Monitoring

Measuring the temperature

Hardware

Purify the industrial waste

Sewage Treatment and Recycle

Measuring the temperature

Measuring harmful air pollutants

Measuring the temperature

4

**Build a prototype**  
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

Measure alkalinity and Nutrients

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Measure pH level of water

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SMS Alert

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Sewage Treatment and Recycle

Measuring the temperature

Measuring harmful air pollutants

Measuring the temperature

## 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

