


## Ideation Phase

### Brainstorm & Idea Prioritization Template

Team ID	PNT2022TMID36354
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

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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.

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#### 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

How might we [your problem statement]?



#### Key rules of brainstorming

To run a 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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## 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!

#### VINEHA K

Testing the quality of water from a remote location

Pollution of water can be investigated by a stringent mechanism

Monitoring water quality is very important for maintaining ecosystem health and the livelihood of the population

Arduino controller is used to generate the reading

the collected data is analyzed and results are updated

different sensor can be used to access the water quality

#### ASMA S

A wireless communication system is efficient

usage of different sensor to analyze the water quality

real-time database used for cloud server

SMS alert can be made incase of high values

cloud data can be retrieved anywhere and predictions can be done

current water quality monitoring system is cost and time consuming process

#### SARANYA S

Monitoring water quality is an important part of helping us determine whether or not we are making progress in cleaning up our waterways.

Current water quality monitoring system is a manual system with a monotonous process and is very time consuming

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

#### DIVYA G

Ensuring the safety of river water before consuming is best

Determining the quality of the water reveals the health consequences that may happen

Water quality monitoring is a cost-effective and

sensors used maybe pH, temperature, salinity, turbidity, pressure, etc

Remote monitoring of water quality is time saving

The collected data can be stored in cloud platform

## Step-3: Idea Prioritization

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### 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



## 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

