


# Ideation Phase

## Brainstorm&Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID46688
Project Name	Real-Time River Water Quality Monitoring and Control System Using IOT
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.

[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


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

2

### Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

#### Person 1

We use Water Quality, conductivity Sensor in this project.

we use pHsensor; Turbidity Sensor in this project.

we use The temperature sensor connected to this Waspnote sensor unit; measured temperature of the river up.

we use GSM modulus in this project

#### Person 2

Connect, collect and start processing IoT data quickly and easily with the IBM Watson IoT<sup>®</sup> Platform.

The ESP8266 module enables microcontrollers to connect to 2.4 GHz Wi-Fi, using IEEE 802.11 bgn

For Monitoring water quality with IOT we use turbidity ,pH, Temperature ,Dissolved Oxygen ,Conductivity and TDS Salinity.

Measuring pH or power of hydrogen tells if the water is acidic or basic in nature.

#### Person 3

We use Map view showing geo-location of all the systems.

we use application, website and cloud computing to receive the notification from destination

We use IBM Cloud computing to save the data.

Through remote monitoring smart phone/ computer/ laptop

#### Person 4

To check water quality by analyzing the parameters such as temperature ,ph, conductivity sensors.

we designed a smart water monitoring system which can perform all this monitoring function.

we proposed a water quality monitoring system using IOT.

The main aim is to develop a system for continuous monitoring of river water quality at remote places using wireless sensor networks with low power consumption, low cost and high detection accuracy

### **Step-3: Idea Prioritization**

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

### TIP



Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

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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

4

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🕒 20 minutes

