

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	11 October 2022
TEAM ID	PNT2022TMID12856
Project Name	Real Time River Water 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.

Reference: <https://www.mural.co/templates/empathy-map-canvas>


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


Template




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

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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

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


Due to adverse biological effects from multiple chemical contamination arising from anthropogenic diffuse emissions and point sources, the river water is contaminated. River water quality monitoring aims to provide the data required for safeguarding the environment against these effects.





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

2

Brainstorm

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

🕒 10 minutes

Kavi

Collect samples of water from the rivers

Measure parameters like pH, turbidity, TDS of the samples

use NodeMCU to interface with the sensors

Analyze and set the threshold value

Ashfaque

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

Sri Charan

Use the collected values and analyze

Find relationship between the parameters

Plot the values in a graph

Analyze the graph and set the threshold values

Dhuvragesh

Use cloud services at the backend to store the data

Analyze and check using different sensor modules available in the market

Check for the best and efficient microprocessor that can be used

Develop a website for the locals to see the live data

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

