

Ideation Phase

Brainstorm&Idea Prioritization Template

Date	15 September 2022
Team ID	PNT2022TMID46174
Project Name	REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

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



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.

[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

PROBLEM STATEMENT

*Farmers put fertilizers and pesticides on their crops so that they grow better. But these fertilizers and pesticides can be washed through soil by rain, to end up in rivers.


*If large amount of fertilizers and farm waste drain into the river the concentration of nitrate and phosphate in the water increases considerably. Algae uses these substances to grow and multiply rapidly turning the water green.

*This massive growth of algae, called eutrophication leads to pollution. When the algae die, they are broken down by the action of the bacteria which quickly multiply, using up all the oxygen in the water which leads to the death of many animals.




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

TIP
You can select a sticky note and hit the pencil (switch to sketch) icon to start drawing!

NANDHINI.C

POLLUTED WATER CAN BE SENT TO WATER TREATMENT PLANTS

RECHARGEABLE SENSORS CAN BE USED FOR HIGH DURABILITY

ALERTS MUST BE SENT WITHOUT ANY DELAY

ALTERNATIVE WATER SOURCE MUST BE AVAILABLE

MUST BE ECONOMICAL

DATA MUST BE ACCURATE

SABNA BEGAM.A

REDUCE SEWAGE OVERFLOW RISK

THE COLLECTED DATA IS ANALYZED

CONTAMINATED WATER MUST BE IDENTIFIED

TRIGGER ALARM WHEN POLLUTANTS ARE FOUND

TURBIDITY SENSOR MEASURES SUSPENDED PARTICLE IN WATER

PROPER WATER MANAGEMENT

RITHIKA.M

USE PHOSPHATE-FREE CHEMICALS THAT LEADS TO ALGAE BLOOMS

IMMEDIATE UPDATION ON THE WATER QUALITY

UPDATION CAN BE SENT TO LOCAL PEOPLE ALSO

DIFFERENT SENSORS CAN BE USED

SALT EXTRACTION MUS TO REDUCED

SENSORS MUST BE USED EFFICIENTLY

ANNAPOORANESHWARI.K

PARAMETERS SUCH AS DO,BOD AND COD CAN ALSO BE MEASURED

ENSURING SAFE WATER SUPPLY OF DRINKING WATER

MUST BE DEVELOPED IN LOW COST

MINERAL CONTENTS CAN BE MANAGED

WASTE WATER MANAGEMENT CAN BE IMPROVED

INFLOW IN SEWER COLLECTION SYSTEM

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 and 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.

POLLUTED WATER CAN BE SENT TO WATER TREATMENT PLANTS.WATER MUST BE USED EFFICIENTLY

IMMEDIATE UPDATION ON THE WATER QUALITY,ACCURATE DATA MUST BE SENT TO THE OFFICIALS

MUST BE DEVELOPED IN LOW COST,ECONOMICAL AND USER FRIENDLY

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

