

Ideation Phase

Brainstorm& Idea Prioritization Template

Date	10 th October 2022
Team ID	PNT2022TMID19089
Project Name	Project – Real Time River Water Quality Monitoring System
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization:

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



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



Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.



Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.



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

PROBLEM

Monitoring Quality of Water in Lakes and Rivers in real time which are done by measuring the Physical Parameters like Ph, Temperature, Turbidity and other physical Parameters to ensure the water is suitable for Consumption.



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.

TEAM MEMBERS:

Team Id: PNT2022TMID15034

TEAM LEAD: PREMASAI MS

TEAM MEMBER 1: MOHANRAM K

TEAM MEMBER 2: PRATEEK S

TEAM MEMBER 3: PUTTA DEEPAK

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

PREMASAI

Also can Make
Use of this
Device
in Closed
Places

More Internet
Speed Can
Access The
Device
Anywhere

It does not
cause any
Radiation
effect.

The device
must be
visible .

Proper
Service &
Maintenance
not required

MOHANRAM

Protectors
are needed
for sensors.

pH sensor ,
Flow sensor ,
Temperature ,
COD sensor
can be used .

Variable
analysis can
be taken for
more accuracy

During natural
calamities ,
sensors could be
damaged .
protectors prevent
those damages.

Total Dissolved
Solids can be
measured
using TDS
meter .

PRATEEK

Separation
of wastes
using filters.

Using
minimum
number of
parameters

Prediction
can be done
based on
previous data

Using of
GSM nodule
to alert the
User

Using an
alarm to
alert the
user

DEEPAK

Data
modelling is
done to
predict the
data

Statistical values
of pH meter
temperature and
turbidity sensor
values are
stored

Components
needs to be
well protected
from Solar and
water Damages

Use of Solar
panel
for power
source

Threshold
values of
sensors are
pre-built

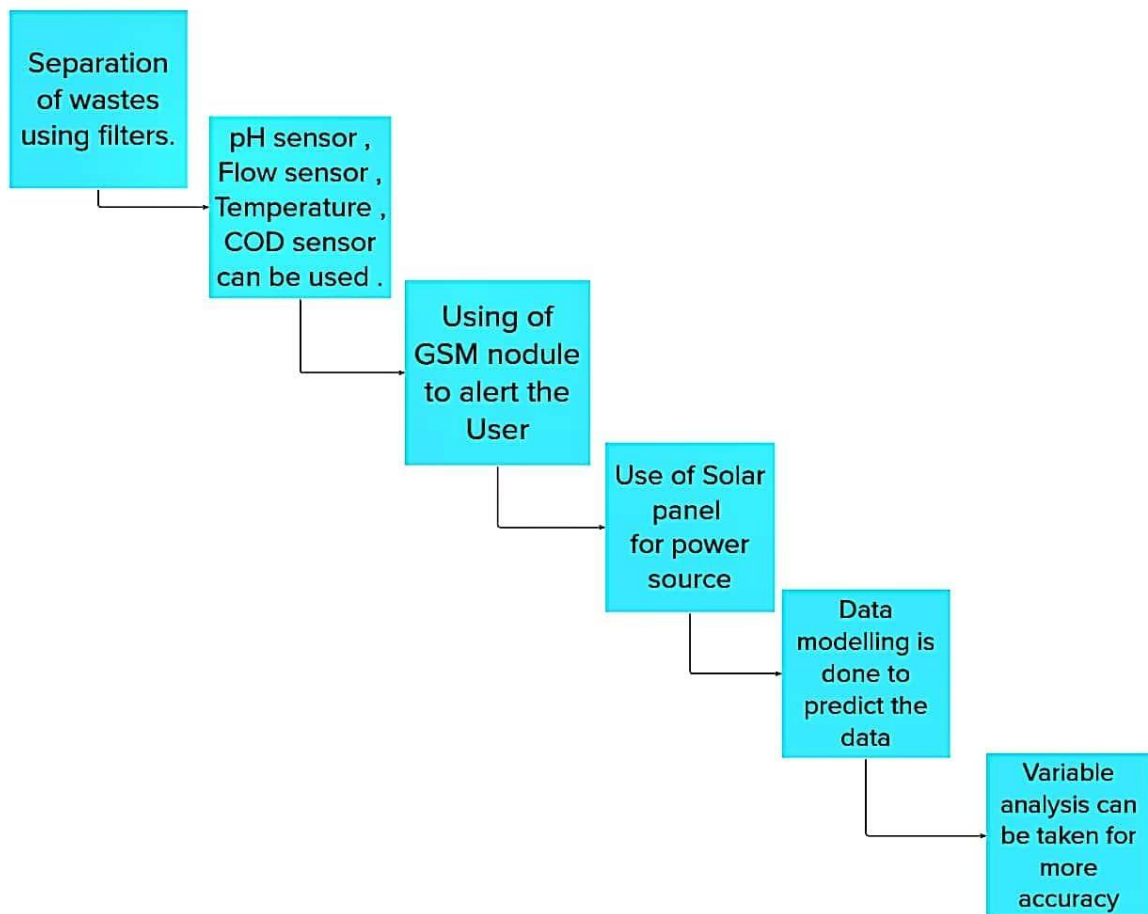
Step-3: GROUP Ideas:

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



Step-4: 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

