

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	04 NOVEMBER 2022
Team ID	PNT2022TMID42599
Project Name	Real time water quality monitoring and control system
Maximum Marks	4 Marks

1 Brainstorm

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

10 minutes

Sabari Vasan P

- To check water quality
- whether it can be used for drinking or not
- using temperature sensor
- whether any particles are present in water

Santhosh R

- Using pH sensors, check the pH of the water.
- whether the water can be used for agricultural use.
- Checking the soil water content
- using the water to feed cattle

Renugha SS

- To check the salt content in water
- using temperature sensor
- whether any particles are present in water
- is water contaminated or not

Ragul Gandhi M

- checking the nitrate content
- To check the chlorine content in water
- using nitrate sensor
- High level chlorine content leads to skin diseases
- water should be purified

2 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

DETECTION TECHNOLOGY

- Using pH sensors, check the pH of the water.
- using Salinity sensor
- using temperature sensor
- using nitrate sensor

DETECTION REQUIREMENT

- Using sensors
- Using Arduino Board
- Connecting Arduino board to cloud
- Creating an application

ALERTING

- Alerting through sms
- Sending notification through app

3 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

Reference

Link:

<https://app.mural.co/t/jansonsinstituteoftechnology4907/m/jansonsinstituteoftechnology4907/1667291493071/79a003d9d510bb8568c2a96dd381703ca09a8785?sender=u2c4a924bc47b96ea2ce80112>