Ideation Phase
Brainstorm & Idea Prioritization

Date	19 September 2022
Team ID	PNT2022TMID38737
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning
Maximum Marks	4 Marks

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

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

Ajai

- In case of vessel containing the water was dirty
- All values needed for prediction
- Using ppm amount of minerals and gasses dissolved is purifies
- Temperature suited with 52-70 degree is healthy.
- Quality analysis by taste.

Karan

- Changes in Ph value of water
- Dissolved oxygen meter can measure the concentration.
- Turbitity measurement using nephelometer
- Needed equipments for calculates the values
- Total Dissolved Solids (TDS) of 75 to 90 is ideal for drinking.

Harish

- Calculation mistakes
- ph level of 7 is consider as pure water.
- Hardness is measured caused by calcium and magnesium
- In case of not having proper values about water

Prem kumar

- More values are needed to predicte
- Biosensor method to detect the bacteria and virus
- Filtration process is to remove the impurities
- Water colour

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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

characteristics (values) of water
- All values needed for prediction
- In case of not having proper values about water
- More values are needed to predicte

Ph value
- Changes in Ph value of water
- ph level of 7 is consider as pure water.

Dissolving components
- Dissolved oxygen meter can measure the concentration.
- Total Dissolved Solids (TDS) of 75 to 90 is ideal for drinking.
- Using ppm amount of minerals and gasses dissolved is purifies

Calculation prediction
- Needed equipments for calculates the values
- Calculation mistakes

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

Importance
If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

Feasibility
Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)

Grid sticky notes:
- Total Dissolved Solids (TDS) of 75 to 90 is ideal for drinking.
- All values needed for prediction
- ph level of 7 is consider as pure water.
- Hardness is measured caused by calcium and magnesium
- Using ppm amount of minerals and gasses dissolved is purifies
- Temperature suited with 52-70 degree is healthy.
- Biosensor method to detect the bacteria and virus
- Quality analysis by taste.
- Filtration process is to remove the impurities
- In case of vessel containing the water was dirty