

## Ideation phase


### Brainstorm & Idea Prioritization Template

Date	19SEP2022
Team ID	PNT2022TMID52132
Project Name	Efficient Water Quality Analysis and Protection Using Machine Learning
Maximum Marks	4 Marks

### Brain Storming 1




#### 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.

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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

farmer wants to get a clean water for agriculture but it is dirty



### Key rules of brainstorming

To run a smooth and productive session

**Muhammad**

- people should be good to their parents
- people should be good to their neighbors
- people should be good to their wives
- people should be good to their children
- people should be good to their slaves
- people should be good to their animals

**Moses**

- people should be good to their parents
- people should be good to their neighbors
- people should be good to their wives
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- people should be good to their animals

**Jesus**

- people should be good to their parents
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**Quran**

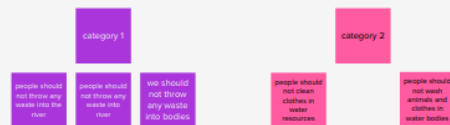
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**Bible**

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### Group ideas

 20 minutes



**Importance**

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


The 20% of tasks that will have the most positive impact

The 80% of tasks that will have the least positive impact

The 20% of tasks that will have the most negative impact


The 80% of tasks that will have the least negative impact


## STEP-1 Team Gathering collaboration and select the problem statement





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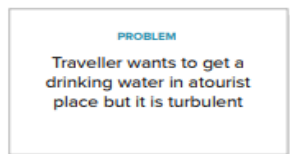


1

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🕒 5 minutes



## STEP-2 Brain storm,idea Listening 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!

#### Mahalakshmi

To analyse the water source	Calculate turbidity	Calculate the concentration of dissolved salts
calculate viscosity	calculate Logistic regression	calculate linear regression
see how is the water colour	Deep neural network	Calculate salinity

#### Manju

Feasuring property of water	columns of water	K Nearest Neighbours
Decision tree method	Artificial neural network	Bio indicators present
disseper impure concentration	Water level	Water taste

#### Malini

Presence of radio active substance	mineral contents present	Algae content
K means	Water temperature	Hardness
Water pH sensors	Nitrate and phosphate concentration	Naive Bayes

#### mentor: Jesy Mary

Surrounding environment	Chloride ion concentration	ph level of water
SVM	Boiling point	Redox potential of water
Electrical conductivity	Polynomial Regression	K medoids



## 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-3 Prioritization

