Ideation Phase
Brainstorm&Idea Prioritization Template
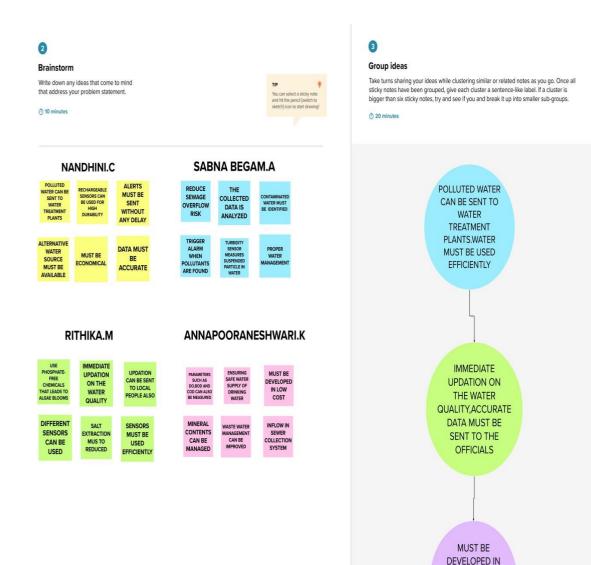
Date	16 NOVEMBER 2022
Team ID	PNT2022TMID05914
Project Name	REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

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

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

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

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

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**

Importance

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

ENSURING SAFE WATER SUPPLY OF DRINKING WATER

WASTE WATER MANAGEMENT CAN BE IMPROVED

MINERAL CONTENTS CAN BE MONITORED

ALERTS MUST BE SENT WITHOUT ANY DELAY

RECHARGEABLE SENSORS CAN BE USED FOR HIGH DURABILITY

CONTAMINATED WATER MUST BE IDENTIFIED

MUST BE ECONOMICAL

TURBIDITY SENSOR MEASURES SUSPENDED PARTICLE IN WATER

USE PHOSPHATE-FREE CHEMICALS THAT LEADS TO ALGAE BLOOMS

UPDATION CAN BE SENT TO LOCAL PEOPLE ALSO

ALTERNATIVE WATER SOURCE MUST BE AVAILABLE

DATA MUST BE ACCURATE

INFLOW IN SEWER COLLECTION SYSTEM

Feasibility

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