Ideation Phase
Brainstorm & Idea Prioritization Template

Date	29 Oct. 2022
Team ID	PNT2022TMID43379
Project Name	Real-Time River Water Quality Monitoring and Control System Using IOT
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization

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

Step-2: Brainstorm, Idea Listing and Grouping

② Brainstorm

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

⏱ 10 minutes

Person 1

We use Water Quality, conductivity Sensor in this project.

we use pHsensor; Turbidity Sensor in this project.

we use The temperature sensor connected to this Wespmote sensor unit measured temperature of the river up.

we use GSM modulus in this project

Person 2

Connect, collect and start processing IoT data quickly and easily with the IBM Watson IoT™ Platform.

The ESP8266 module enables microcontrollers to connect to 2.4 GHz Wi-Fi, using IEEE 802.11 bgn

For Monitoring water quality with IOT we use turbidity ,pH, Temperature ,Dissolved Oxygen ,Conductivity and TDS ,Salinity.

Measuring pH or power of hydrogen tells if the water is acidic or basic in nature.

Person 3

We use Map view showing geo-location of all the systems.

we use application, website and cloud computing to receive the notification from destination

We use IBM Cloud computing to save the data.

Through remote monitoring smart phone/ computer/ laptop

Person 4

To check water quality by analyzing the parameters such as temperature ,ph, conductivity sensors.

we designed a smart water monitoring system which can perform all this monitoring function.

we proposed a water quality monitoring system using IOT.

The main aim is to develop a system for continuous monitoring of river water quality at remote places using wireless sensor networks with low power consumption, low cost and high detection accuracy.

Step-3: Idea Prioritization

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**

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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