TEAM ID : PNT2022TMID17661

Steps
What does the person (or group) typically experience?

SCENARIO

Browsing, booking, attending, and rating a local city tour

PREREQUISTE

Techniques

Purpose

Availability of Internet of Things and Remote sensing

To purify the waterResources

Real-time data access can be done by using remote monitoring and Internet of Things (IoT) technology.

Can be displayed in visual format on aserver PC

Customer requires the system consist of several Sensors

It is used to measuring physical and chemical parameters of the water.

This project has successfully achieved its objective where water quality data (pH and temperature) can be monitored

Customer felt that the sensors are installed very deep inside the water and their positions are fixed.

The design of a real time, and low cost water quality monitoring system

PROJECT FLOW

sites

Process

It is necessary to observe the water quality in a large area such as lake, river, and aquaculture

IoT and remote sensing techniques are used congregate and analyzing data from the remote locations

To check water quality by analyzing the parameters such as Temperature ,pH and conductivity, and so on

It supervising, congregate and analyzing data from the remote locations

It is used to measuring physical and chemical parameters of the water quality at remote places using wireless sensor networks.

With low power consumption, need

Implementation by a reconfigurable smart sensor interface device for water quality monitoring system in an IoT environment

The sensors which work on power source may often required to be replaced in case of malfunctioning.

Track whether protection and restoration measures are working

WORKING

TIP
As you add steps to the experience, move each these "Five Es" the left or right depending on the scenario you are documenting.

Info Transfer

An android application will be used to determine the sensor values and examined via cloud and warnings will be provided to user

The values are then compared with the threshold value

If the acquired value is above the SMS alert will be sent to the user

The data will be stored in the cloud or local storage will be implemented

Using the sensed parameters, the customer predicts the water quality

It proposed the system collects parameters of water pH, turbidity on the surface of water

With high speed from multiple different sensor nodes

Mounted Sensors may get damage during natural disasters and often by aquatic animals

Customer can analyse data continually and instantly alert users to changes in the system.

It reduces the need for unreliable and expensive sampling.

BENEFITS

It Can diminish the contaminants present in water

It changes to a drinking water

Using IoT integrated Big Data Analytics will immensely help people to become conscious against using contaminated water

The customer requires a low cost system

By the sensors, water contaminants must be detected.

It will immensely help customer to become conscious against using contaminated waste as well as to stop polluting the water

The maintenance cost is also very high.

No need to compromise the water quality by the presence of infectious agents, toxic chemicals, and radiological hazards.

OUTCOME

The related authorities can take measures to boost the water quality which makes it more usable for human purpose

It has high frequency, high mobility ,and low powered.

It can be extended into an efficient water management system of a local area.

The issue is that the traditional method, such as workers, needs to go to each tank or river to collect data

It was satisfied by lc cost water quality monitoring system h been developed fc large area of covera

It was attributed to its long duration operation, flexibility, and reproducibility

To test other Parameters ,the new sensors can be included.

The system has wide application and it is usable and affordable

Interactions
What interactions do they have at each step along the way?

- **People:** Who do they see or talk to?
- **Places:** Where are they?
- **Things:** What digital touchpoints or physical objects would they use?

Goals & motivations
At each step, what is a person's primary goal or motivation? ("Help me..." or "Help me avoid...")

Positive moments
What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?

Negative moments
What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?

Areas of opportunity
How might we make each step better? What ideas do we have? What have others suggested?