# Project Design Phase-I

## Solution Architecture

| Date | 05 November 2022 |
|---|---|
| Team ID | PNT2022TMID42599 |
| Project Name | Real time water quality monitoring and control system |
| Maximum Marks | 4 Marks |
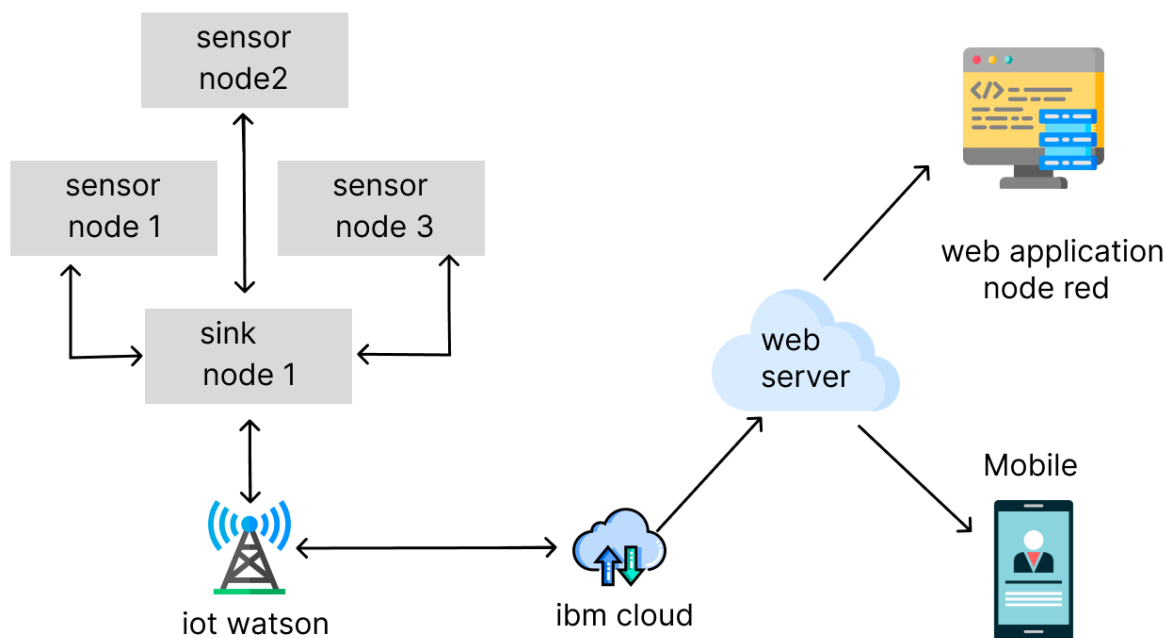


## Sensors:

· Getting information about the quality of the water.

· Various sensors are used to get the information.

· Then gathered information is sent to the IOT platform.

## Create and Configure IBM cloud platform services:

・Create IBM Watson IOT platform

・Create a device & configure the IBM IOT Platform

・Create Node-Red service

・Create a database in IBM Cloudant DB to save the sensor's readings.

## Develop a web application using Node-RED service:

・Develop a web application using Node-RED.

・Develop a python script to publish the readings of the sensors and threshold readings of the quality of water to remind details to the IBM IOT Platform.

## Develop an application:

・Develop an application in which the user can view the readings of the sensors

・Develop an application which can alert the user by sending alert messages.