**Project Design Phase-I**

**Solution Architecture**

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| --- | --- |
| Date | 06 November 2022 |
| Team ID | PNT2022TMID53593 |
| Project Name | Project - Real-Time River Water Quality Monitoring and Control System |
| Maximum Marks | 4 Marks |

**Solution Architecture:**

Alerts When The Quality Of Water Is Reduced

Stores The Data Into IBM Cloudant Db

Ph

Level And

Turbidity Of The

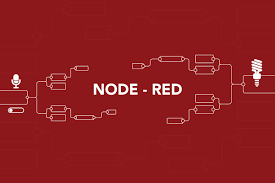
Water

Send Data To IBM IOT Watson Platform

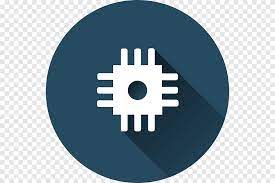
Water

**Example –Solution Architecture Diagram:**

**CLOUD SERVICE**

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**FAST SMS**

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**IOT DEVICE**

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**USER**

**WEB UI**

**NODE-RED**

**IBM WATSON IOT PLATFORM**

**PYTHON CODE**

**PROJECT DESCRIPTION:**

* River water quality can be monitored by the web application.
* The web application and the user are interfaced.
* The pH level and the turbidity of the water can be monitored.
* If the water quality is not good then the authorities get alerted by the message.