

## Project Design Phase-I Solution Architecture

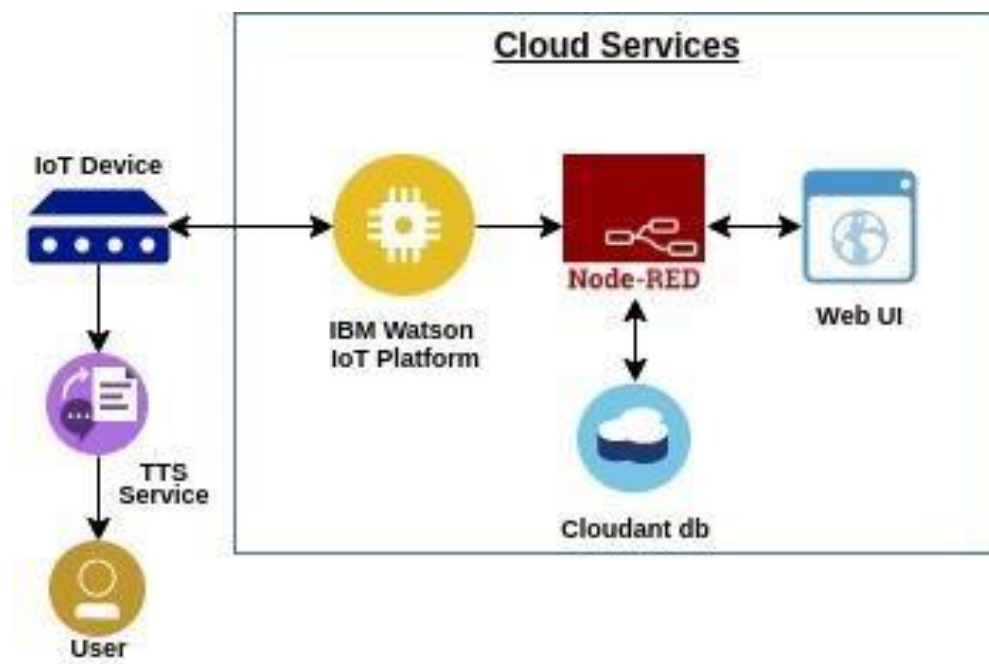
Date	19 September 2022
Team ID	PNT2022TMID33565
Project Name	Personal Assistance for senior citizens who are self-reliant
Maximum Marks	4 Marks

### Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

### Solution Architecture Diagram:



## **IOT Device:**

- Getting the information from the application about the time and name of the medicines.
- Sending an SMS to the persons.
- Gathering the user information from the web application in which the user registers.
- To accomplish this, we have to complete all the activities listed below .
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## **Create and Configure IBM Cloud Services:**

- Create IBM Watson IOT platform
- Create a device & configure the IBM IOT Platform
- Create Node-Red service
- Create database in IBM Cloudant DB to medicine names and time.

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

- Develop the web application using Node-RED.
- Develop a python script to publish the medicine names and time to remind details to the IBM IOT Platform.

## **Develop an application:**

- Develop an application in which the user can feed the data on the medicine name and time.
- Develop an application which can transmit the signal on the reminder of the medicines at the time specified.