

Project Design Phase-I

Solution Architecture

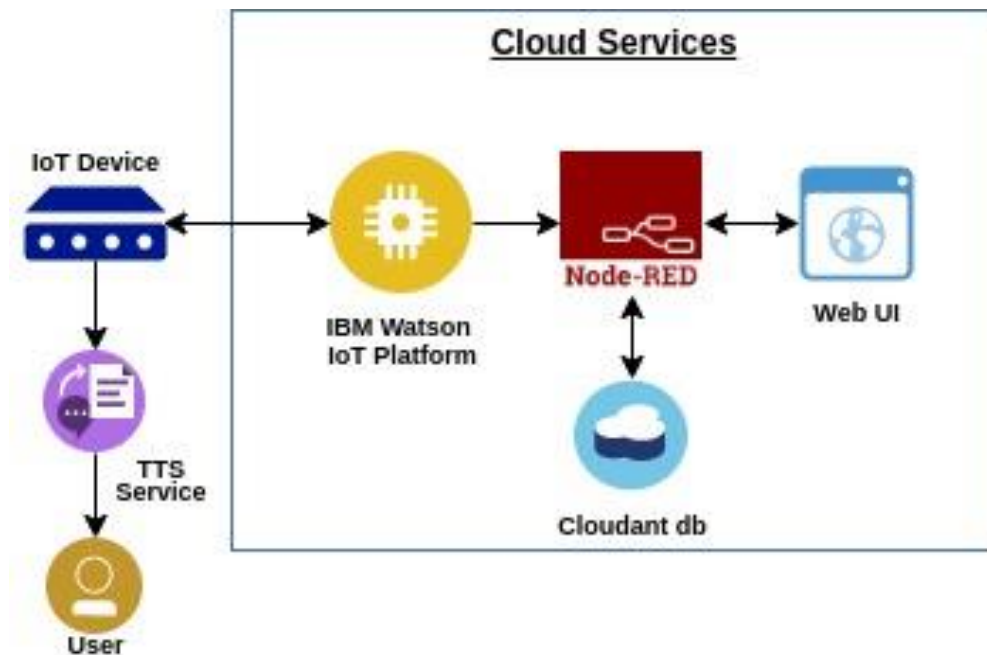
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| Date | 19 September 2022 |
| Team ID | PNT2022TMID42603 |
| Project Name | Personal Assistance for senior citizens who are self-reliant |
| Maximum Marks | 4 Marks |

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:

Create and Configure IBM Cloud 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 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.