Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	17October 2022
Team ID	PNT2022TMID16081
Project Name	**Project - Personal Assistance for Seniors Who Are Self-Reliant**
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

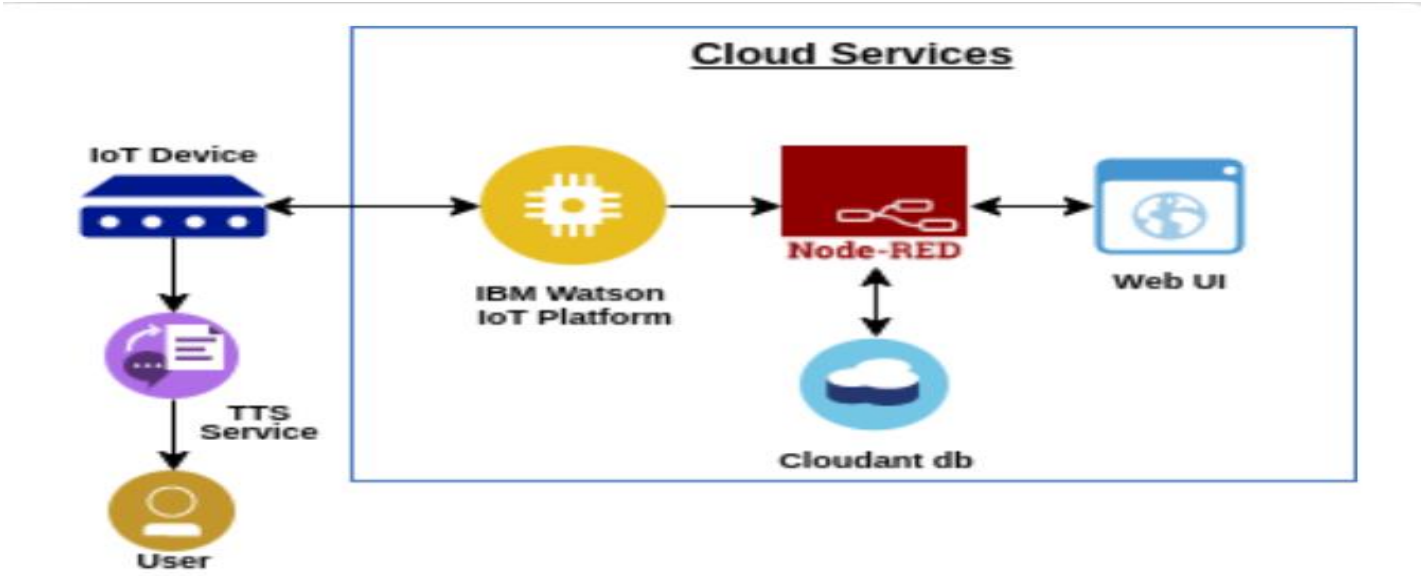

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App.	IBM IoT Platform, IBM Node red, IBM Cloud
2.	Application Logic-1	Create IBM Watson IoT Platform and create node-red service	IBM Watson, IBM Cloudant service, IBM node-red
3.	Application Logic-2	Build a web application using node-red service	IBM Node-red
4.	Application Logic-3	An assistive technology that reads digital text aloud	Text to Speech (TTS)
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant
7.	File Storage	Developing mobile application to store and receive the sensors information and to react accordingly	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10.	Machine Learning Model	Using this we can derive the object recognition model	Object Recognition Model
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Cloud Server Configuration	IBM Cloudant, IBM IoT Platform

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	MIT App Inventor	MIT License
2.	Security Implementations	IBM Services	Encryptions, IBM Controls
3.	Scalable Architecture	Sensor-IOT Cloud Based Architecture	Cloud Computing and AI
4.	Availability	Mobile, Laptop and Desktop	MIT App
5.	Performance	Dispenses Medicine	Sensors