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

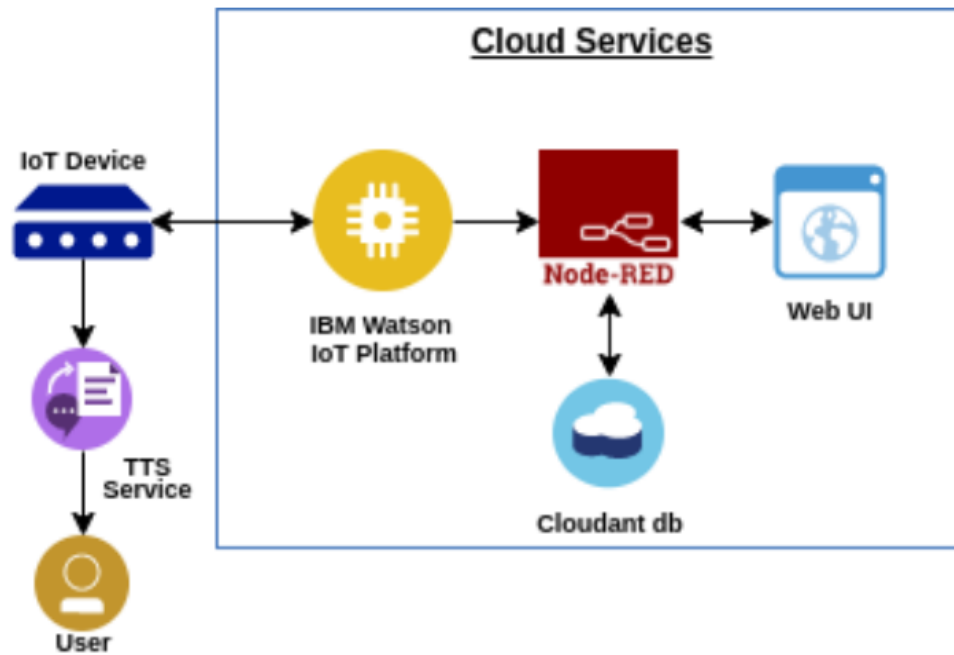| Date	03 October 2022
Team ID	PNT2022TMID27535
Project Name	Personal Assistance for senior citizens who are self-reliant
Maximum Marks	4 Marks

Technical Architecture:

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Mobile App	MIT
2.	Application Logic-1	Collecting medicine details and time for intake	Python
3.	Application Logic-2	Triggers alarm	IBM Watson
4.	Cloud Database	Database Service on Cloud	IBM Cloudant DB

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Creating a Mobile App,Interfacing the IoT device with the app,text to speech service,storing data in cloud	MIT,Node-Red,IBM watson,IBM Cloudant DB
2.	Security Implementations	Secure data transmission	SHA-256
3.	Scalable Architecture	Supports multiple users to be logged in at the same time	IBM watson
4.	Availability	Available round the clock	IBM watson,Node-Red,IBM Cloudant DB
5.	Performance	Reminder with correct timing.	IBM IoT Platform
6.	Communication Protocol	MQTT Protocol	HiveMQ