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

Date	14 October 2022
Team ID	PNT2022TMID52751
Project Name	Project – Personal Assistance for Seniors who are Self-Reliant
Maximum Marks	4 Marks

Technical Architecture:

The architectural diagram of the model is as below and the Technology used is shown in table1 & table 2
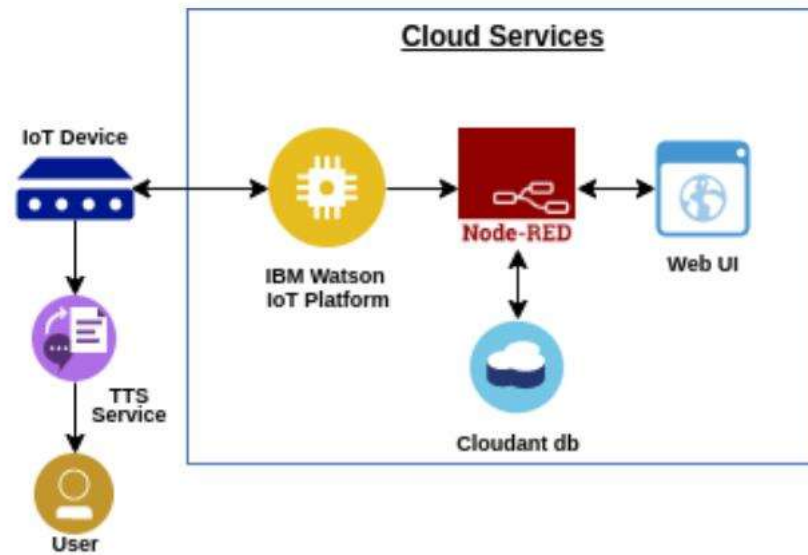
Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g., Mobile Application	HTML, CSS, JavaScript / Angular JS / Node Red.
2.	Application Logic-1	User input feed	Java / Python
3.	Application Logic-2	User updates medicine data to the database based on reminders and dosage levels	IBM Watson STT service
4.	Application Logic-3	Getting accurate medicine database	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	IoT Model	Purpose of IoT Model is for generating a medicine reminder system and produce reports based on medicine intake.	IBM IoT Platform
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Availability	Make the application available to the user at all times.	IBM Watson Cloud Assistance
2.	Performance	Design consideration for the performance of the application such that it generates and updates the database accurately.	IBM Watson Assistance
3.	Security Implementations	Certified Watson Assistance for Firewall	Web Application Firewall (IBM Watson)
4.	Open-Source Frameworks	Open-source application used is IBM Watson	IBM Watson
5.	Scalable Architecture	Make the application scalable so that multiple users can access the application at the same time	IBM Watson