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

Date	03 October 2022	
Team ID	PNT2022TMID24659	
Project Name	Personal Assistance for seniors Who are Self-	
	Reliant	
Maximum Marks	4 Marks	

## **Technical Architecture:**

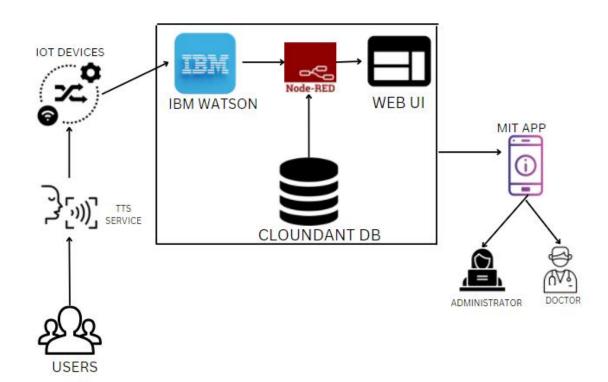


Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web UI	HTML, CSS, JavaScript
2.	Application Logic-1	Web UI to Register/Login	HTML, CSS, JavaScript
3.	Application Logic-2	Get the data from the Cloud	IBM Watson IoT API call data
4.	Application Logic-3	Set Some threshold values from the doctor for specific medicines to alert the users.	IBM Watson Assistant
5.	Database	Medicine name and its schedule,stock of the medicine.	MySQL
6.	Cloud Database	Call the data IBM Cloudant is used and user login credentials	IBM DB2, IBM Cloudant
7.	File Storage	Web UI code and IoT credentials are stored and API keys	IBM Block Storage
8.	External API-1	To get the user login credentials to find the data they require	IBM Login API
9.	External API-2	To get the medicine name and its timings	Monitoring API
10.	Infrastructure (Server / Cloud)	To host the server and web app	Cloud Foundry, Node Red

**Table-2: Application Characteristics:** 

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	To develop the application interface, we use <b>MIT</b>	MIT App Inventor
		App Inventor	
2.	Security Implementations	To secure the login credentials and personal	SHA-256, OWASP
		information	
3.	Scalable Architecture	To scale the application database	IBM Auto Scaling
4.	Availability	To make data available 24/7	IBM cloud load balancer
5.	Performance	To increase the performance the application in	IBM Instance
		hosted in the high-performance instance	