Project Design Phase – II

Technology Architecture

Team ID	**PNT2022TMID31307**
Project Name	**Personal Assistance for seniors Who are Self-Reliant**
Maximum Marks	**4 Marks**

Team Leader: BRINTHA D

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Technical Architecture:

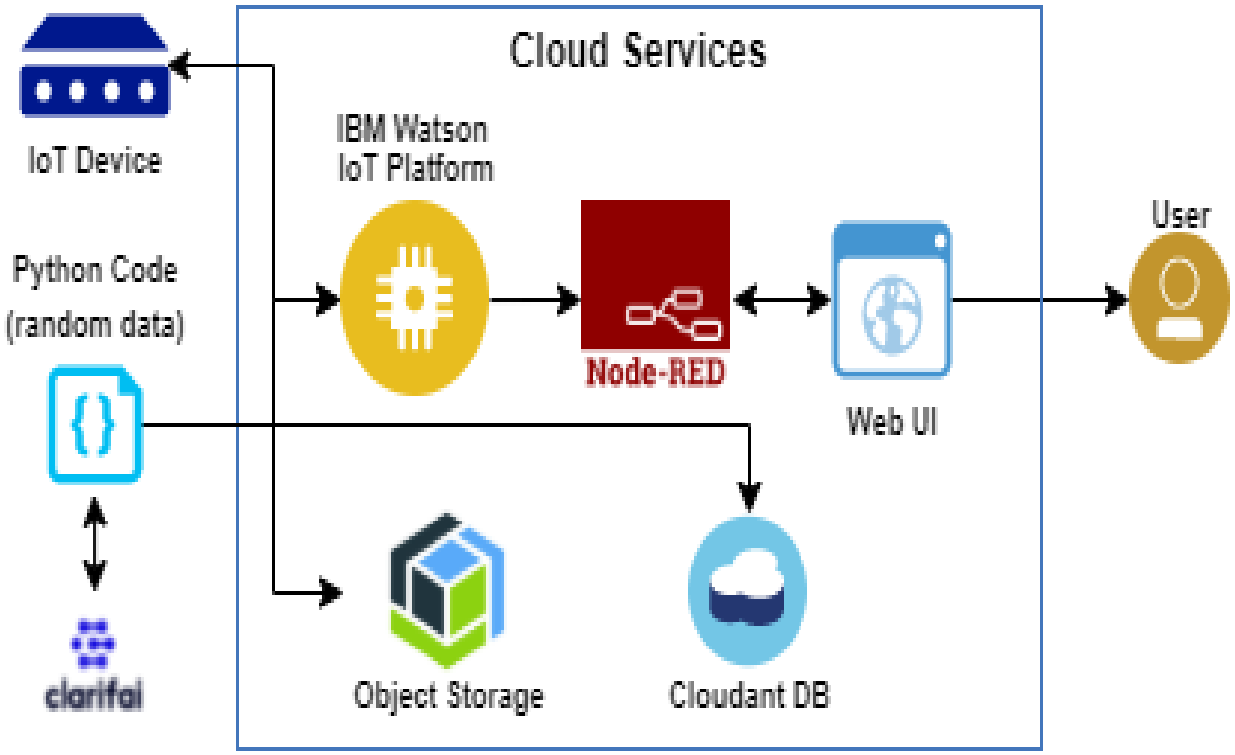

Table 1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, Angular Js
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson IOT Platform
4.	Application Logic-3	Logic for a process in the application	Node RED
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	Infrastructure (Server / Cloud)	Application deployment on Local System / Cloud Local Server configuration: Cloud Server configuration:	Local, Cloud foundary, Kubernetes, etc..
8.	File storage	File storage requirements	IBM Cloudant

Table 2: Application Characteristics:

S.No.	Characteristics	Description	Technology
1.	Open-Source Frameworks	KAA IOT, ZEETA , Thing Speak , Open connectivity Foundation	RFID,NFC,WIFI-Direct, Low energy Bluetooth
2.	Security Implementations	Sensors used for tracking real time location of medical equipment like wheelchairs, nebulizers, oxygen pumps and other monitoring equipment	OPTIGA Trust M is an IOT device
3.	Scalable Architecture	Scalable IOT systems should use separate systems is web workers where it stores for grow data storage and analysis	Sensors, Actuators, and Cloud
4.	Availability	Remote monitoring health devices, seniors can easily track their medical conditions while going about their lives	DOT Watch, Robot helpers
5.	Performance	In seniors it can help improve cognition and memory skills	GPS storage