

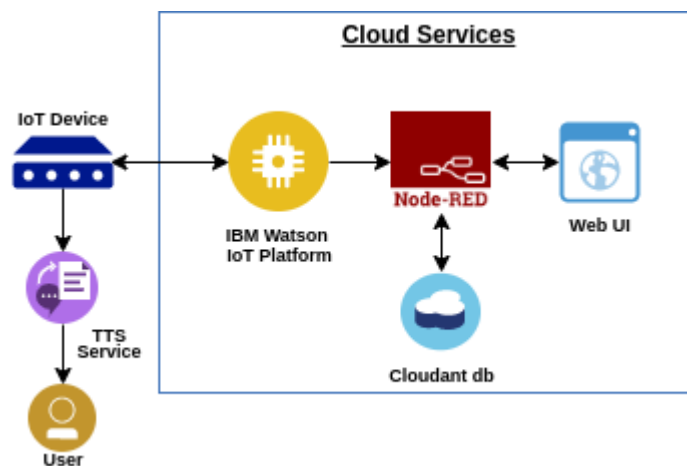
# PROJECT DESIGN PHASE-II

## TECHNOLOGY STACK (ARCHITECTURE & STACK)

Date	23 October 2022
Team ID	PNT2022TMID38250
Project Name	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 table 1 and table 2



**Table-1 : Components & Technologies**

SNO	COMPONENT	DESCRIPTION	TECHNOLOGY
1	User Interface	How user interacts with application	HTML, CSS, JavaScript /

		e.g., Web UI, Mobile App, Chatbot etc.	Angular Js /React Js etc.
2	Application Logic-1	Logic for a process in the application	Java / Python
3	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7	File Storage	File storage requirements	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	Purpose of Machine Learning Model	Object Recognition Model, etc.
11	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server	Local, Cloud Foundry, Kubernetes, etc.

		Configuration: Cloud Server Configuration:	
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**Table-2: Application Characteristics:**

SNO	CHARACTERISTICS	DESCRIPTION	TECHNOLOGY
1	Open-source Frameworks	To develop the application interface, we use is MIT APP Inventor	MIT APP INVENTOR
2	Security Implementations	To secure the users login credentials and personal information	SHA-256, OWASP
3	Scalable Architecture	To scale the application database	IBM Auto scaling
4	Availability	To make use the application and data are available 24/7	IBM Cloud load balancer
5	Performance	To increase the performance the application in hosted in the high-performance instance	IBM instance