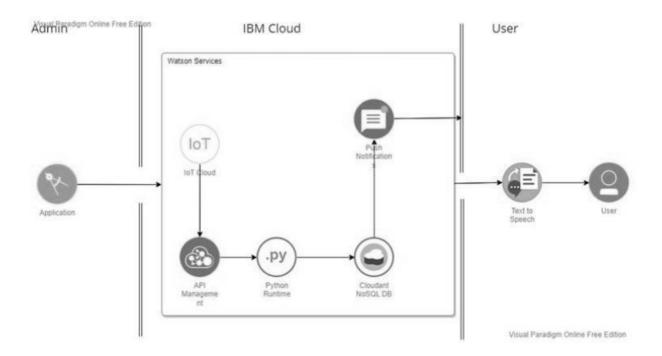
## PROJECT DESIGN PHASE - TECHNOLOGY STACK( ARCHITECTURE & STACK)

Date	8 October 2022
Team ID	PNT2022TMID21781
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	Mobile App		

			HTM CSS,
			JavaS
2	Application	Mobile App to enter the Medic	Pytho
	Logic-1	Details weekly	
3	Application	Gets the medication data from	IBM
	Logic-2	database	Watson API
		uatavasc	Call d
4	l.		IBM Wa
	Application	Converts the text to speech to pronunciation for theuser	Assist
	Logic-3	Converts the section to promine the section of	
5	Database	Medication time and tablets name on	MyS(
		daily and	
		daily and	
(	Cloud		IBM 1
	Database	Call the data IBM Cloudant is used	IBM Cloud
		1 1 to a desire	Cloud
		and user logincredentials	
7	. File	App code and IoT credentials are stored and APIkeys	IBM 1
	Storage		Stora
	Enternal	To get the good since how status Once on not	IDM
6	B. External API-1	To get the medicine box status Open or not	IBM l status
g	. External	To get the login credentials in IBM DB2	Usern
	API-2		and
			Passw API
1	0. Machine	To convert the text	Text t
	Learning		speecl

Model	Model into speech for voice commandthe tablet details		
11. Infrastructure Cloud)	To host the server and application	Cloud Foundry, (Server / Node Red	

**Table-2: Application Characteristics:** 

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	To develop the application interface, we use  MITApp Inventor	MIT APP INVENTOR
2.	Security Implementations	To secure the users login credentials and personalinformation	SHA-256, OWASP
3.	Scalable Architecture	To scale the application database	IBM Auto scaling
4.	Availability	To make use the application and data areavailable 24/7	IBM Cloud load balancer

5.	Performance	To increase the performance the application inhosted in the high- performance instance	IBM instance