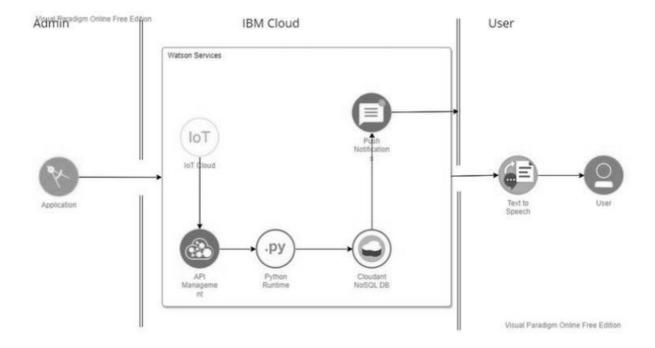
PROJECT DESIGN PHASE - II TECHNOLOGY ARCHITECTURE

DATE	29/10/2022	
TEAM ID	PNT2022TMID38529	
PROJECT TITLE	PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF-	
	RELIANT	

Technical Architecture:



Components & Technologies

S. No	Component	Description	Technology
1.	User Interface	Mobile App	HTML, CSS,
			JavaScript
2.	Application Logic-1	Mobile App to enter the Medicine	Python
		Details weekly	
3.	Application Logic-2	Gets the medication data from	IBM Watson IoT API
		database	Call data
4.	Application Logic-3	Converts the text to speech	IBM Watson
		to pronunciation for the	Assistant
		user	
5.	Database	Medication time and tablets	MySQL
		name on daily and	
6.	Cloud Database	Call the data IBM Cloudant is	IBM DB2, IBM
		used	Cloudant
_	P'1 a	and user login credentials	
7.	File Storage	App code and IoT	IBM Block Storage
		credentials are stored and	
		API keys	
8.	External API-1	To get the medicine box status	IBM box status API
		Open or not	
9.	External API-2	To get the login credentials in	Username
		IBM DB2	and
			Password API
10.	Machine Learning	To convert the text	Text to speech
	Model	into speech for voice	
		Command the tablet	
		details	
11.	Infrastructure	To host the server and	Cloud Foundry,
	(Server / Cloud)	application	Node Red

Application Characteristics

S. No	Characteristics	Description	Technology
1.	Open- Source Frameworks	To develop the application interface, we use MIT App Inventor	MIT APP INVENTOR
2.	Security Implementation	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 Is hosted in the high- performance instance	IBM instance