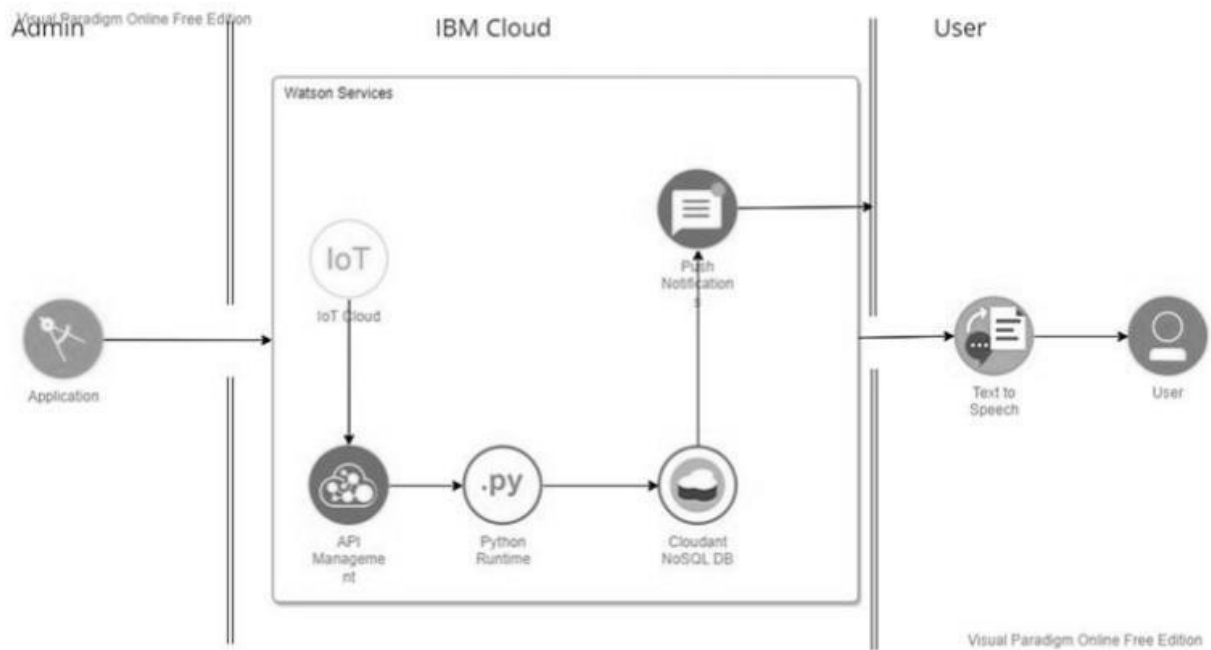


PROJECT DESIGN PHASE – II

TECHNOLOGY ARCHITECTURE

DATE	15/10/2022
TEAM ID	PNT2022TMID43222

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 database	IBM Watson IoT API
			Call data
4.	Application Logic-3	Converts the text to speech to pronunciation for the user	IBM Watson Assistant
5.	Database	Medication time and tablets name on daily and	MySQL
6.	Cloud Database	Call the data IBM Cloudant is used and user login credentials	IBM DB2, IBM Cloudant
7.	File Storage	App code and IoT credentials are stored and API keys	IBM Block Storage
8.	External API-1	To get the medicine box status Open or not	IBM box status API
9.	External API-2	To get the login credentials in IBM DB2	Username and Password API
10.	Machine Learning	To convert the text	Text to speech
	Model	into speech for voice	
		Command the tablet	
		details	
11.	Infrastructure (Server / Cloud)	To host the server and application	Cloud Foundry, 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 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 Is hosted in the high-performance instance	IBM instance