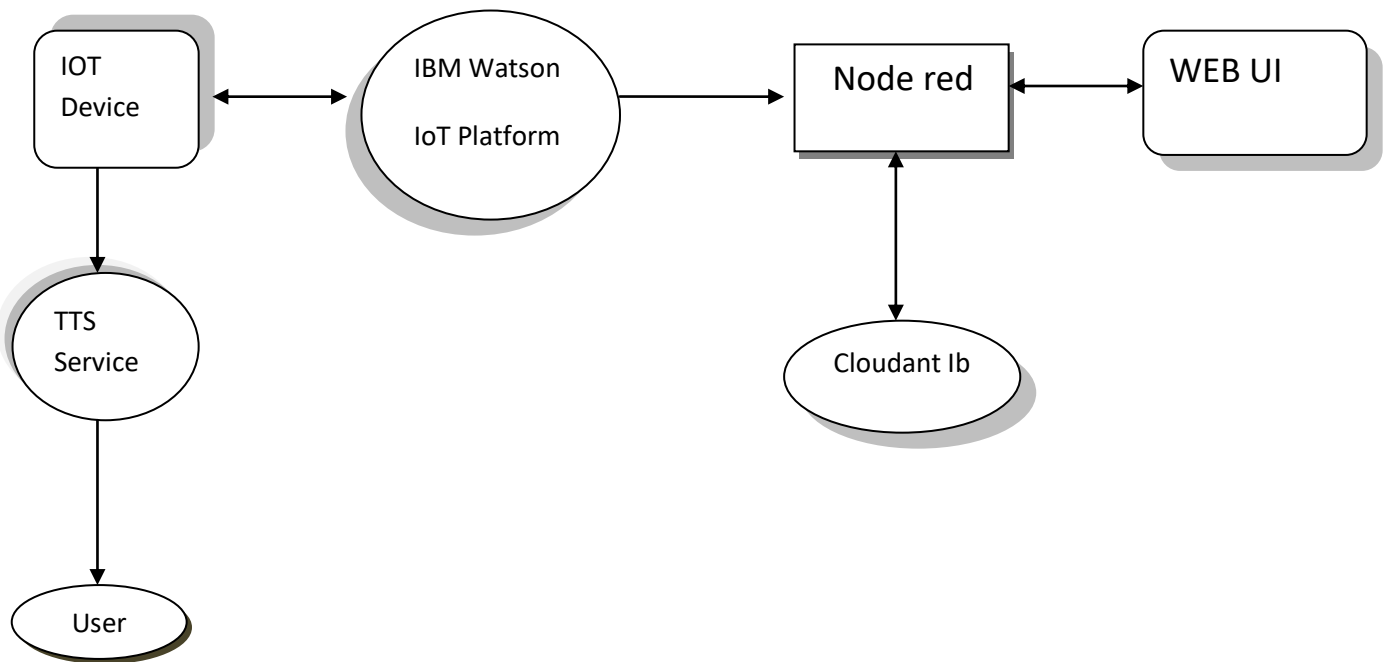


PROJECT DESIGN PHASE – II

TECHNOLOGY ARCHITECTURE



Components and Technologies:

S.No	Component	Description	Technology
1.	User Interface	Mobile App	HTML, CSS, JavaScript,Python
2.	Application Logic-1	Mobile App to enter the Medicine Details weekly	HTML, CSS, JavaScript,Python
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	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 APIkeys	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 Model	To convert the text into speech for voice command the tablet details	Text to speech
11.	Infrastructure (Server / Cloud)	To host the server and application	Cloud Foundry, Node Red

Applications 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 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 highperformance instance	IBM instance