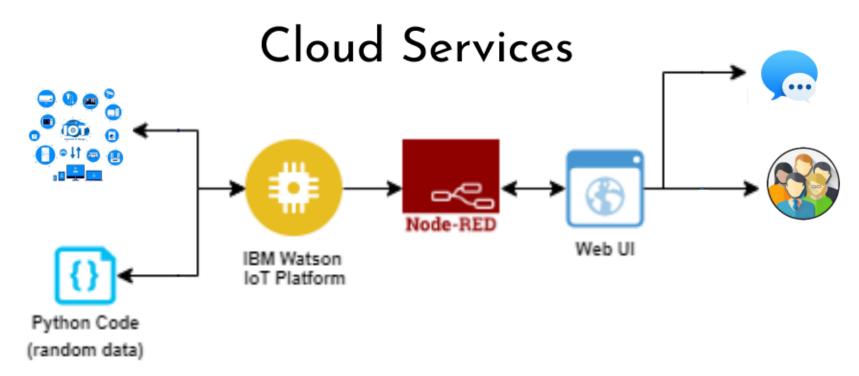
## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	16 October 2022	
Team ID	PNT2022TMID12298	
Project Name	Project – Real time river water quality	
	monitoring and controlling system	

## **Technical Architecture:**



## Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interacts with the web application through this particular technology	Node Red , MIT app inverter etc.
2.	Application Logic-1	To develop a script for temperature and humidity	Python
3.	Application Logic-2	In order to access the cloud platform	IBM Watson service
4.	Application Logic-3	To build conversational interface with any application and devices	IBM Watson Assistant
5.	Cloud Database	To store the data in the cloud service	IBM DB2, IBM Cloudant etc.
6.	External API-1	To monitor the temperature and humidity in the app	IBM Weather API, etc.
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Local, IBM cloud, etc.

**Table-2: Application Characteristics:** 

S.No	Characteristics	Description	Technology
1.	Security Implementations	In order to avoid the third party access to the application.	Encryption ,One time password protection etc
2.	Availability	Using of available servers and technology	Cloud servers eg: IBM cloud and services
3.	Performance	Different sensors are used to represent multiple performance of the system	Using of sensor eg : pH sensor and turbidity sensor