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

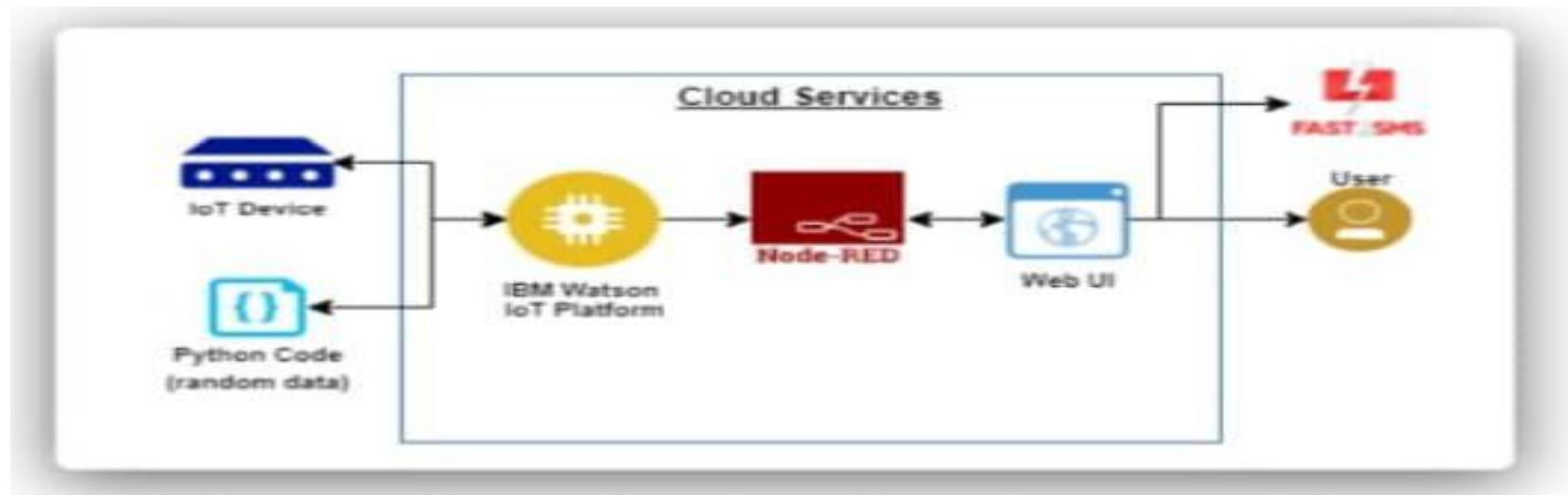| Date	15 October 2022
Team ID	PNT2022TMID48851
Project Name	Project - Real-Time River Water monitoring and control system
Maximum Marks	4 Marks

Technical Architecture:

Table-1: Components & Technologies:

S.No	Component	Description	Technology

1.	User Interface	HBase	python
2.	Data Set	Collect the data set in the cloud	wirelessly
3.	Application Logic-1	Import all datas stored in big data	Python
4	Data storage	Load / store the dataset and code.	System storage.
5	Cloud Database	Database Service on Cloud	IBM Cloud
6	Infrastructure (Server / Cloud)	Train the dataset and model using IBM cloud	IBM Cloud
7	Machine Learning Model	Used to high detection accuracy	HBase,Basic python

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Design a smart water monitoring	Basic python
2.	Security Implementations	Transfer the result.	Basic python
3.	Scalable Architecture	Easy to use. To send SMS to an authorized person	python

4.	Availability	Nowadays to develop a system continuous monitoring of river water quality	Internet of things
5.	Performance	Water quality does not match necessary actions can be taken.	HBase