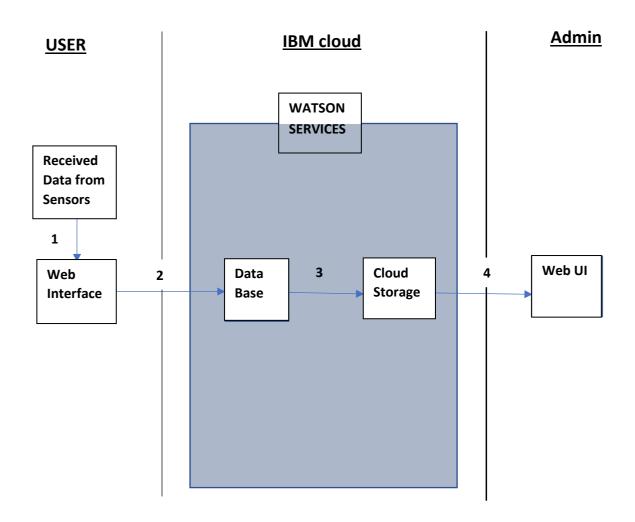
Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID51580
Project Name	Project - Real time River water quality monitoring and control system
Maximum Marks	4 Marks

Summary

This code pattern explains how to build an IOT based river water monitoring and controlling system with some predefined values.

Flow



- 1) Feed the data received from the Sensor unit which are placed in the river sides.
- 2) The collected data will be displayed in the Web page
- 3)Then the collected data is sent to the data base, where the collected data the predefined data are checked and monitored. If any data exceed the the predefined date then the control signal will send to the Admin.
 - 1) The collected data will be stored in the IBM cloud storage.
 - 2) Later the data will be controlled by the admin via Web UI.

Components & Technologies:

S.No	Component	Description	Technology	
1.	Received Data from	The data collected form	ESP32wifi module	
	Sensors	the sensor units placed in		
		the river sides.		
2.	Web Interface	The collected data were	HTML, CSS,	
		displayed visually.	JavaScript	
3.	Database	Datatype	MySQL	
4.	Cloud Database	Database Service on	IBM cloud	
		Cloud		
5.	Data Storage	File storage requirements	IBM Block Storage	

Application Characteristics:

S.No	Characteristics	Description	Technology
1.	PH level Monitoring	The PH level of river	PH-sensor
		water can be monitored	
		via placing sensors in	
		rivers.	

2.	Temperature	The temperature of	Temperature sensor
	Monitoring	river water can be	
		monitored	
3.	Pollution Monitoring	The clarity and purity of	Conductive sensor
		river water can be	
		monitored	
4.	Soil level Monitoring	The amount of soil	Turbidity sensor
		mixed in the river water	
		can bemeasured	