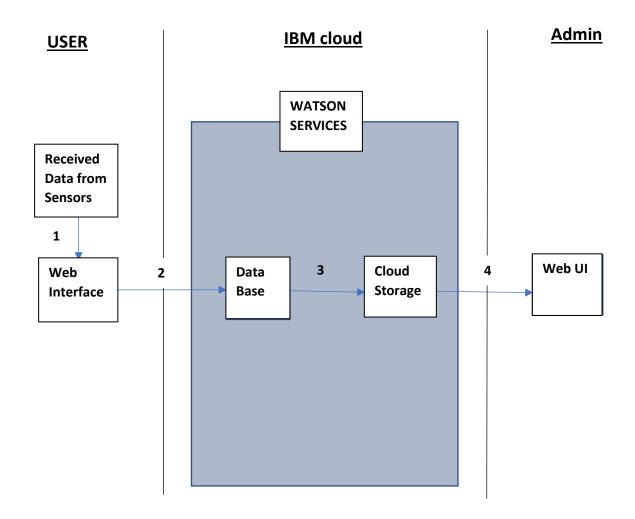
## Summary

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 to the user.

- 3) Then the collected data is sent to the data base, where the collected data and the predefined data are checked and monitored. If any data exceed the predefined date then the control signal will send to the Admin.
- 4) The collected data will be stored in the IBM cloud storage.
- 5) 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	ESP32 wifi 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.	

S.No	Characteristics	Description	Technology
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 be measured	