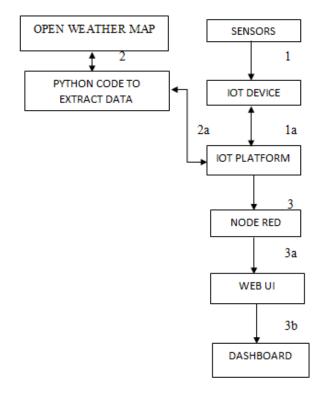
Project Design Phase-II Data Flow Diagram & User Stories

Date	19 October 2022	
Team ID	PNT2022TMID12941	
Project Name	Project – Realtime River Water Quality	
	Monitoring and Control System	
Maximum Marks	4 Marks	

Data flow diagram:



- 1. The traffic data from array of sensors are collected and given to IOT device.
 - 1a. The sensor data is processed and given to IBM Watson platform.
- 2. The weather information is obtained from open weather map.
 - 2a. The required weather data is extracted using python code.
- 3. The IOT Watson platform will process the data collected and give the signs or message to be displayed.
 - 3a. Node Red will interface the IOT platform data to Web UI.
 - 3b. Wed design to display signs or message is designed in Web Ui and the output is displayed in dashboard.

User stories:

User type	Functional	User story	User story	Acceptance criteria	Priority	Release
	requirement	number				
Customer	Data	USN-1	The user collect data from	Sensor data integrated with the	High	Sprint 1
(traffic department)	collection		array of sensors.	module.		
	Data	USN-2	The data collected is	The processed data will be passed	High	Sprint 1
	processing		retrieved for processing.	from IOT Watson platform.		
	Website	USN-3	The user has to register an	New user account created for each	High	Sprint 2
	registration		account in weather	branch.		
			forecast website to get			
			weather data.			
	Data	USN-4	The weather data is	The weather data integrated with	High	Sprint 2
	collection		extracted from the website	the module.		
			using python code.			
	Data	USN-5	The data collected is	The processed data will be passed	High	Sprint 2
	processing		retrieved for processing.	from IOT Watson platform.		
Customer(traveller,	Data display	USN-6	Based on processed data,	The user can see the signs or alert	High	Sprint 3
driver)			output signs or message	message in dashboard		
			will be displayed.			