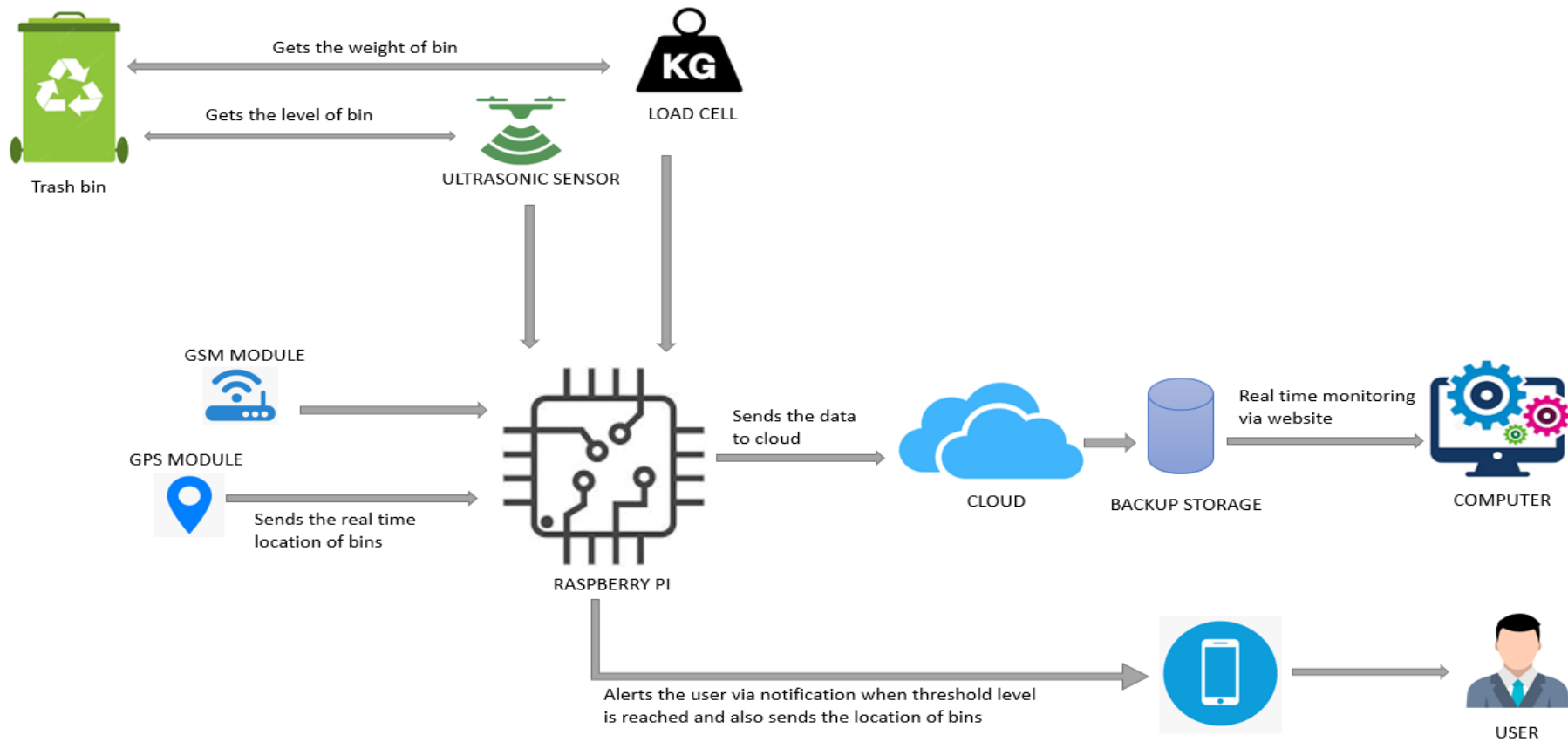


Project Design Phase-II Technology Stack (Architecture & Stack)

Date	23 October 2022
Team ID	PNT2022TMID48524
Project Name	Project – Smart Waste Management System for Metropolitan cities
Maximum Marks	4 Marks

Technical Architecture:



Components & Technologies:

S. No	Component	Description	Technology
1.	Raspberry pi	Control the overall devices and sensors	Python
2.	Ultrasonic Sensor	Senses the level of bins	Sensing technology used
3.	Load sensor	Senses the weight of bins	Sensing technology used
4.	GSM module	Establishes communication between mobile device and GSM	Mobile Communication Technology used
5.	GPS Module	Sends location of bins	Global positioning technology used
6.	Cloud Database	Database Service on Cloud	IBM Cloudant
7.	Web UI	Displays the data	Node Red
8.	IOT platform	Manages an IOT ecosystem	IBM Watson IOT platform