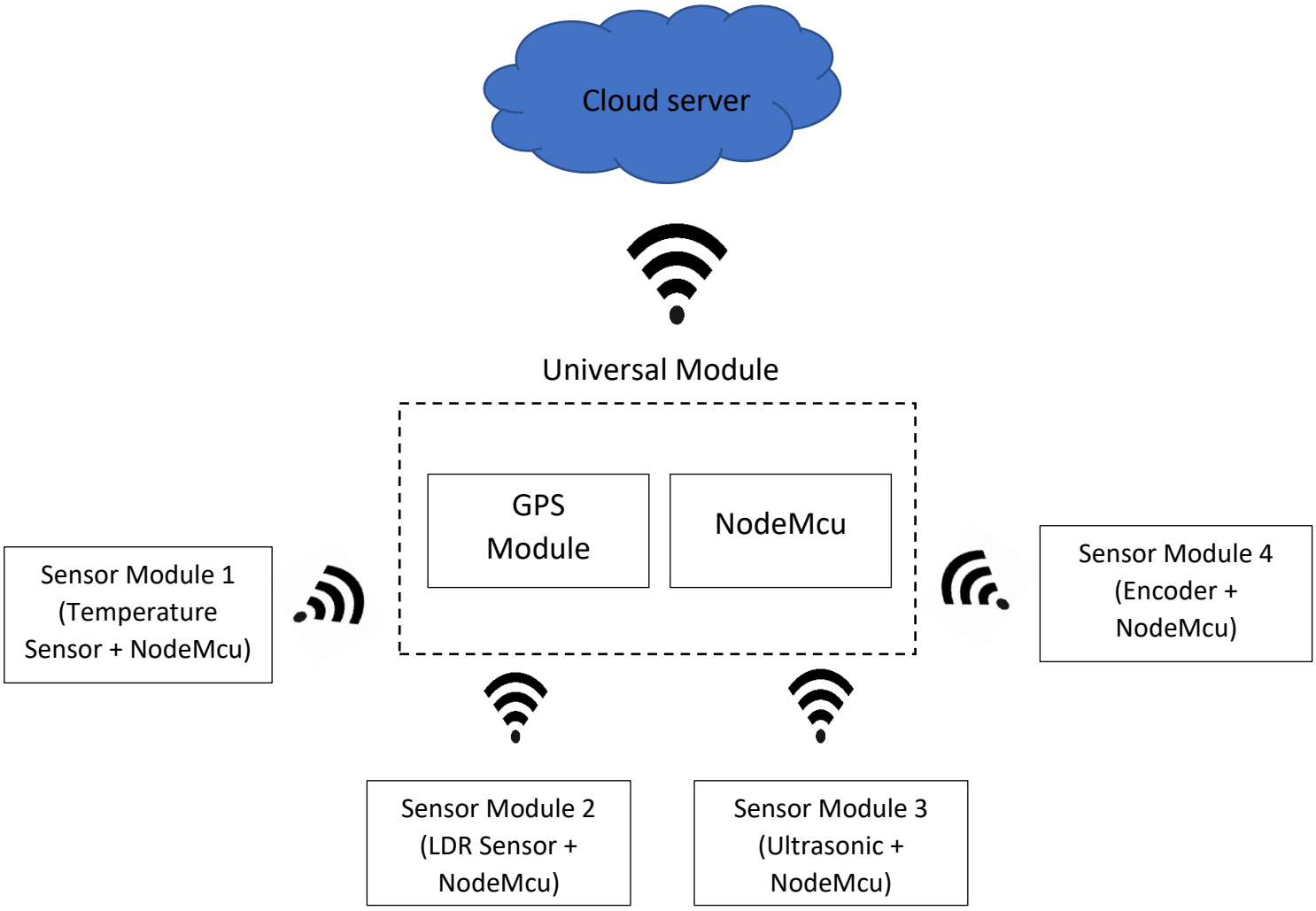
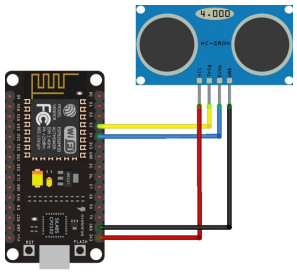
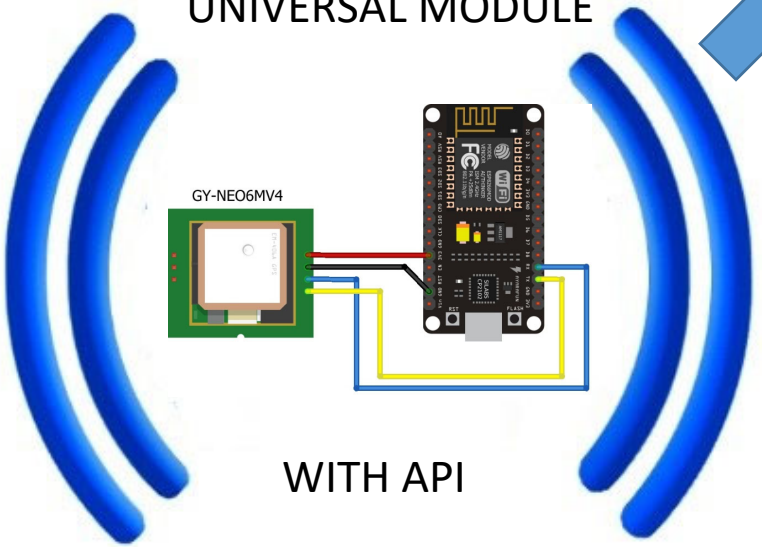

Cloud server
Universal Module
GPS Module
NodeMcu
Sensor Module 1 (Temperature Sensor + NodeMcu)
Sensor Module 2 (LDR Sensor + NodeMcu)
Sensor Module 3 (Ultrasonic + NodeMcu)
Sensor Module 4 (Encoder + NodeMcu)

Sensor Module 2

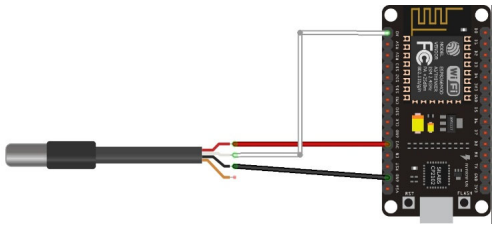


IoT Cloud

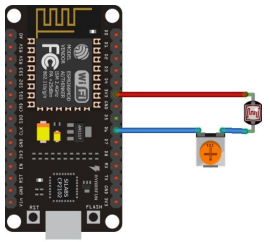
UNIVERSAL MODULE



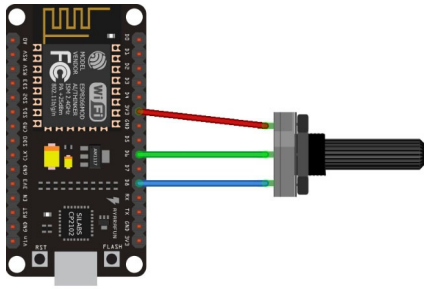
WITH API



Sensor Module 1

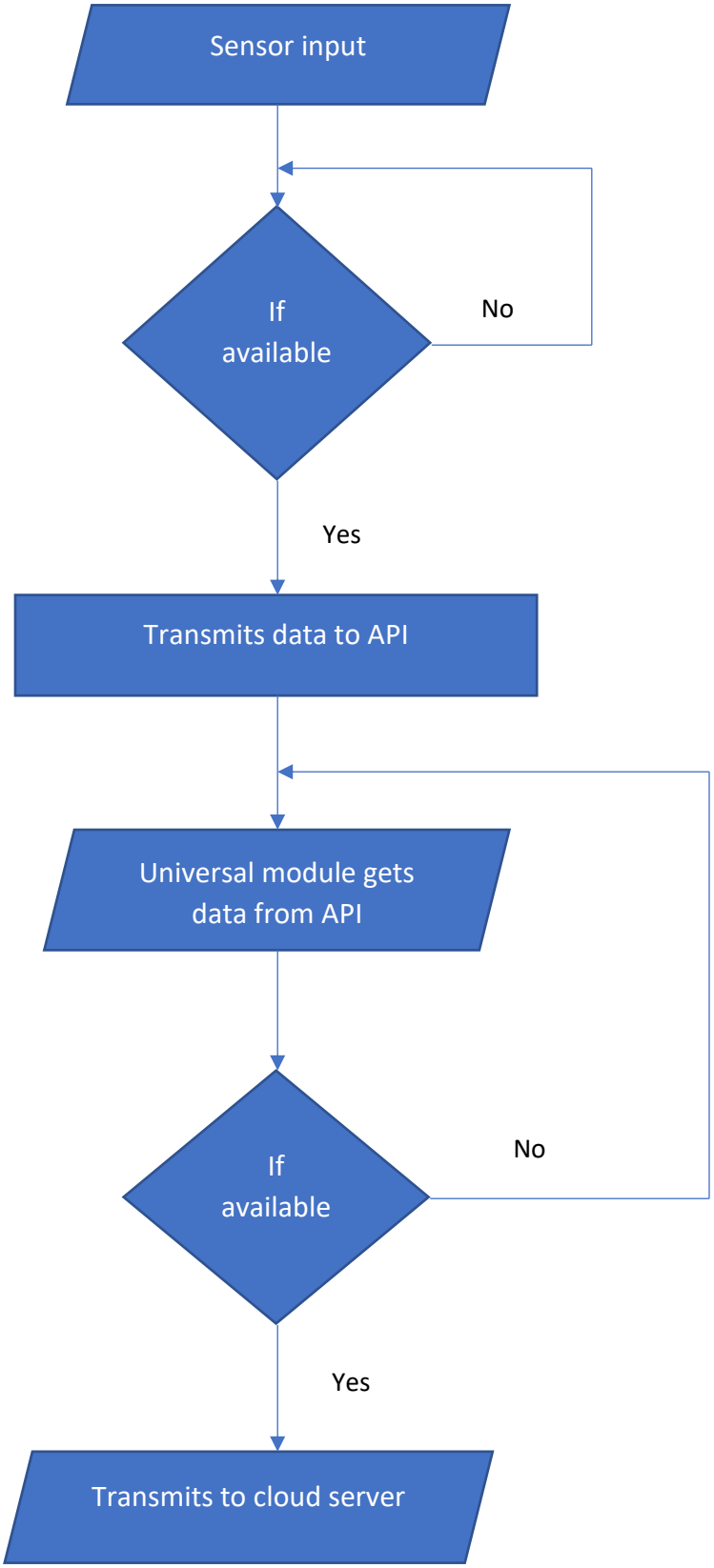


Sensor Module 3



SENSOR

MODULE 4


Sensor input
If available
No
Yes
Transmits data to API
Universal module gets data from API
If available
No
Yes
Transmits to cloud server

Components & Estimated Cost

S.NO	COMPONENTS	TOTAL	AVAILABLE	PROCURE	COST
1.	NodeMcu	6	3	3	1350
2.	GPS Module	1	-	1	700
3.	Temperature sensor (Thermocouple)	2	1	1	400
4.	Ultrasonic sensor (HC-05)	2	2	-	-
5.	Rotary Encoders	1	1	-	-
6.	LDR	2	2	-	-
7.	100Ω Trimpot	1	1	-	-
8.	GP Board	1	-	1	50
9.	Jumper cable	50	25	25	100
10.	Power Adapter	5	5	-	-
11.	9V Battery	2	1	1	50
12.	Wi-Fi Router	1	1	-	-
				TOTAL	2650