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

Date	07 October 2022
Team ID	PNT2022TMID48642
Project Name	Signs With Smart Connectivity for Better Road Safety
Maximum Marks	4 Marks

Technical Architecture:

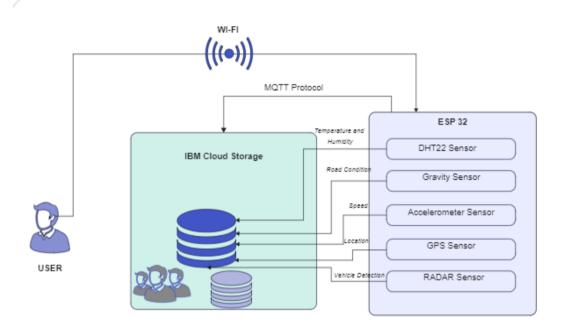


Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	To display the Humidity,temperature and messages to the user.	MIT app inventor.
2.	Application Logic-1	For the front -end purpose	MIT app Inventor
3.	Application Logic-2	Link to the website application	Node-Red service.
4.	Application Logic-3	To connect the user device and gather information about atmosphere.	IOT Devices.

5.	Cloud Database	To store the information about	IBM DB2, IBM
		the Temperature, Humidity	Cloudant, etc.
6.	External API-1	To identify the Temperature ,and	Open Weather Map
		Humidity.	
7.	External API-2	To create the circuit for the	Tinkercad, Wowki.
		device of ultrasonic ,etc.	
8.	Infrastructure (Server /	To connect the service to the	Node-Red app, Cloud
	Cloud)	website	Foundry.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Scalable Architecture	The road safety can be enhanced to a greater level since it has the ability to sense the weather condition, road condition and vehicle detection.	IOT sensors.
2.	Availability	The user can get this as a plug—in device and it will help the user in a great manner.	IOT sensors, MIT inventor.
3.	Performance	Using this as a plug-in device in car will improve its performance by assuring the safety driving.	IOT sensors ,Cloud service .