

PROJECT DESIGN PHASE-I

SOLUTION ARCHITECTURE.

Date	19 September 2022
Team ID	PNT2022TMID39715
Project Name	Signs with Smart Connectivity for Better Road Safety.
Maximum Marks	4 Marks

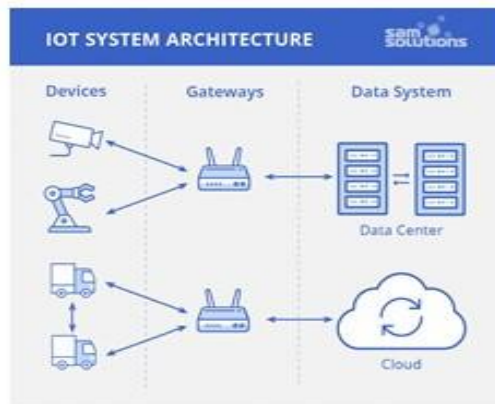
SOLUTION ARCHITECTURE:

- Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions.
- To Determine the Solution Architecture for the Project – Signs with Smart Connectivity for Better Road Safety
- In present Systems the road signs and the speed limits are Static. But the road signs can be changed in some cases. We can consider some cases when there are some road diversions due to heavy traffic or due to accidents then we can change the road signs accordingly if they are digitalized. This project proposes a system which has digital sign boards on which the signs can be changed dynamically.
- If there is rainfall then the roads will be slippery and the speed limit would be decreased. There is a web app through which you can enter the data of the road diversions, accident prone areas and the information sign boards can be entered through web app. This data is retrieved and displayed on the sign boards accordingly.

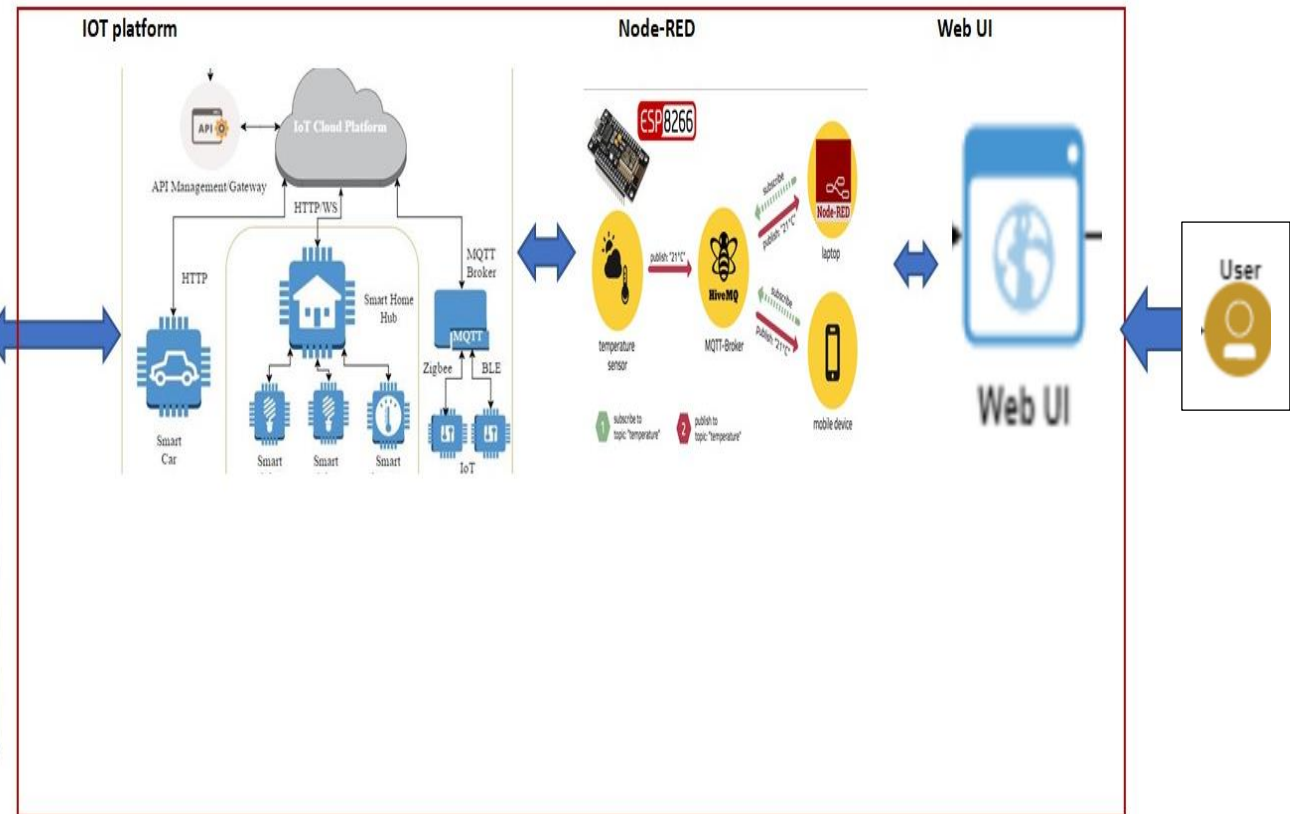
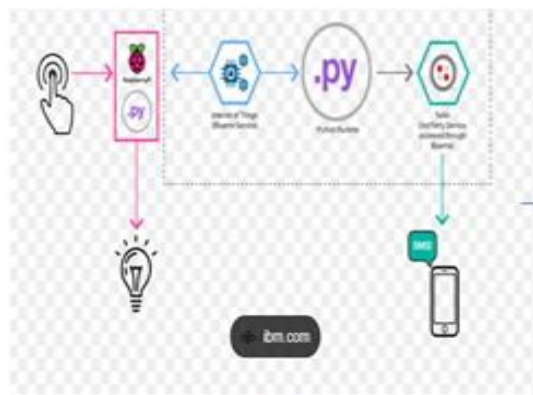
REQUIREMENTS:

Python, IOT Cloud Platform, IBM Cloud, Node- RED, IBM IoT Platform, IBM Node-RED, IBM Cloud ant DB.

IOT Device



Python Code



CLOUD SERVICES

