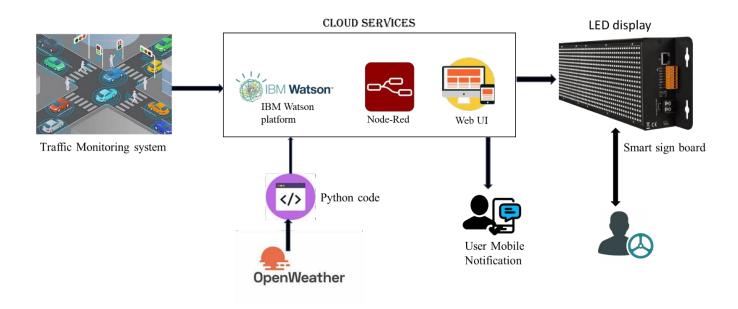
Project DesignPhase-IITechnologyStack(Architecture&Stack)

Date	17October2022	
TeamID	PNT2022TMID41867	
ProjectName	Signs With Smart Connectivity for Better Road Safety	
MaximumMarks	4Marks	

TechnicalArchitecture:

The Deliverable shall include the architectural diagram as below and the information as per the table 1&table 2



GUIDELINES:

- Toreplacethestaticsignboards, smartconnected signboards are used.
- These smart connected sign boards get the speed limitations from a webapp using weather API and update automatically.
- Basedontheweatherchangesthespeedmayincreaseordecrease.
- $\bullet \ Based on the traffic and \ fat alsituations the diversion signs are displayed.$
- Guide(Schools), Warning and Service (Hospitals, Restaurant) signs are also displayed accordingly.
- Differentmodesofoperations can be selected with the help of buttons.

Table-1:Components & Technologies:

S.No	Component	Description	Technology
1.	UserInterface	Howuserinteractswithapplicatione.g. WebUI,MobileApp,Chatbotetc.	HTML, CSS, JavaScript/ AngularJs/ ReactJsetc.
2.	ApplicationLogic-1	Logicforaprocess intheapplication	Java/Python
3.	ApplicationLogic-2	Logicforaprocess intheapplication	IBMWatson STTservice
4.	ApplicationLogic-3	Logicforaprocess intheapplication	IBMWatsonAssistant
5.	Database	DataType,Configurationsetc.	MySQL,NoSQL,etc.

6.	CloudDatabase	DatabaseServiceonCloud	IBMDB2,IBMCloudantetc.
7.	FileStorage	Filestoragerequirements	IBM Block Storage or Other StorageServiceorLocalFilesystem
8.	ExternalAPI-1	PurposeofExternalAPlused intheapplication	IBMWeatherAPI,etc.

Table-2:ApplicationCharacteristics:

S. No	Characteristics	Description	Technology
1.	Security	Strong security system that	Firewall,
	Implementations	anyonewithoutlogincredentials	Firebase, cyber
		andhackersarenotallowedto	resiliency
		enterthenetwork.	strategy
2.	Scalable	Easytoexpandtheoperatingrange	IoT,internet.
	Architecture	byincreasingthebandwidthofthe	
		network.	
3.	Availability	Availableanytimeandeverywhere	IBMCloud
		24/7aslongastheuserissignedinto	
		thenetwork.	
4.	Performance	Supportsalargenumberofusersto	IBMcloud
		accessthetechnology	
		simultaneously.	