ProjectDesignPhase-
IITechnologyStack(Architecture&Stack)

TeamID	PNT2022TMID45483
ProjectName	SignswithSmartConnectivityforBetterRoadSafety
MaximumMarks	4 Marks

TechnicalArchitecture:

TheDeliverableshall includethearchitecturaldiagramasbelowandtheinformationasper thetable1 &table2
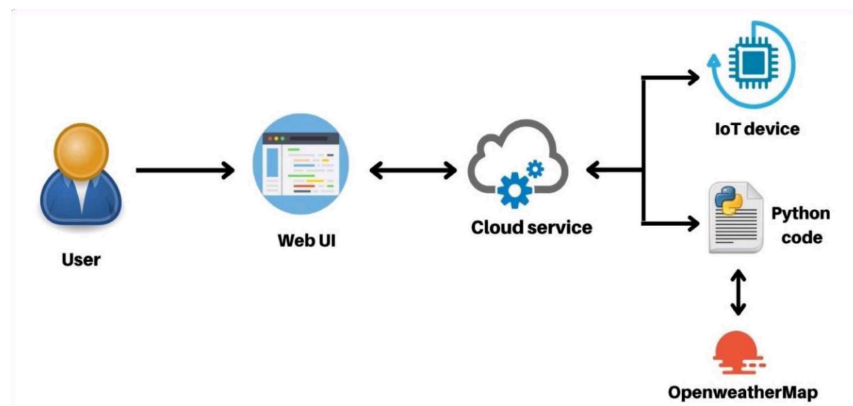
Table-1:Components&Technologies:

S.NO	Component	Description	Technology
1.	UserInterface	Howuserinteractswith applicatione.g.WebUI,MobileApp,Chatbotetc.	HTML,CSS,JavaScript/AngularJs/ReactJsetc.
2.	Application Logic-2	Logicforaprocessintheapplication	IBMWatsonSTT service
3.	ApplicationLogic-3	Logicforaprocess intheapplication	IBMWatsonAssistant
4.	CloudDatabase	DatabaseServiceonCloud	IBMDB2,IBMCloudantetc.
5.	ExternalAPI-1	PurposeofExternalAPIusedintheapplication	IBMWeatherAPI,etc.

Table-2:ApplicationCharacteristics:

S.No	Characteristics	Description	Technology
1.	SecurityImplementations	Strongsecuritymeasurespreventhackersand users without login credentials fromaccessingthenetwork.	Firewall,Firebase, cyberresiliencystrategy
2.	Scalable Architecture	Byexpanding thenetwork'sbandwidth,theoperatingrange canbe upgraded.	IoT,internet.
3.	Availability	Availableatalltimesandlocations24/7solongasthe userisloggedintothe network.	IBMCloud
4.	Performance	Allowsalot ofpeopleto usethetechnologyatthe sametime.	IBMcloud