				Date	19-Nov-22							
				Team ID	PNT2022TMID04334							
				Project Name	Project - Gas Leakage Monitoring And Alerting System For Industries							
				Maximum Marks	4 marks							
Test case ID	Feature Type	Component	Test Scenario	Pre-Requisite	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Comments	TC for Automation(Y/ N)	Executed By
			Create the IBM Cloud services which are	IBM Cloud	1.Go to IBM Cloud signup page 2.Enter e-mail id and other credentials		User should sign up IBM cloud and details should					
TC_001	Functional	IBM cloud	being used in this project.	Login ID & Password	3.Enter a password	https://cloud.ibm.co m/login	be verified	Working as expected	Pass	Results verified	No	Bharanidharan
TC 002	Functional	IBM Cloud	Configure the IBM Cloud services which are being used in completing this project.	IBM Cloud Login ID & Password	1.Go to Cloud login 2.Enter user ID & Password 3.Verify login by the popup display	https://cloud.ibm.co m/login	User login to IBM Cloud and should be navigated to IBM Cloud dashboard page	Working as expected	Pass	Results verified	No	Bharani
_		IBM Watson	IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices, so create the IBM Watson IoT	IBM Watson IoT Platform Login ID &	1.Login to IBM Cloud 2.Click Catalog 3.Search IoT and click create 4.Go to resource list and search Internet of Things platform 5.Press Launch and click Sign in IBM Watson	https://vq4nsy.intern etofthings.ibmcloud.c om/dashboard/	User should be navigated to IBM IoT Watson Platform	Working as				
TC_003	Functional	IBM Watson	In order to connect the IoT device to the IBM cloud, create a device in the IBM Watson IoT platform and get the device credentials.	IBM Watson IoT Platform Login ID & Password	Platform 1.Login to IBM Watson Platform 2. Click Add Device 3.Enter the details and click Finish. Create Device ID & Device type 4.Turn on Device Simulator and click simulation running. Enter the values of gas, temperature & humidity level 5.Click Send & Save. Verify the displayed result of the levels	Temperature, Humidity and Gas sensor values are generated randomly in simulation	Temperature, Humidity and Gas sensor values should be randomly generated	expected Working as expected	Pass	Results verified Results verified	No No	Harish Bharanidharan
TC_005	Functional	IBM Cloud(Node Red)	Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.	Node Red Installation	I.Install node red and open node red in command prompt Select IBM input in IoT	https://cloud.ibm.co m/developer/appserv ice/create-app?starte rKit=59c9d5bd-4d31- 3611-897a-f94eea80d c9f&defaultLanguage =undefined	User should be able to see the Node Red page	Working as expected	Pass	Results verified	No	Bharani
			Create a Node-RED	Node Red	1.Select IBM IoT input in Node. In IBM IoT Watson Platform, go to apps and click on generate API keys. 2.Copy & paste generated API key and token in the IBM IoT input. After entering all details, click the done button. 3.Add debug to the IBM IoT and rename as Msg. payload and click on done. Click gauge from the dashboard and fill the details & add functions to the gauge. Check the generated values from the debug message. 4.Edit function node, connect them, add another gauge and functions, name them as "Temperature", "Gas" & "Humidity" 5.Finally add alarm ON/OFF and Sprinkler ON/OFF buttons to the IBM IoT and debug. Verify the output from NODE RED using Local	Values of sensors and button for Alarm & Sprinkler ON/OFF is displayed	Values of sensors and button for Alarm & Sprinkler ON/OFF should be displayed	Working as				
TC_006	Functional	Node Red	service.	Installation	host link			expected	Pass	Results verified	No	Harish

TC 007	Functional	Puthon 2.7.0	Develop a python script to publish random sensor data such as temperature, humidity level and Gas level to the IBM IoT platform	Python 3.7.0(64 bit) installation	1.Download and install Python 3.7.0 2.Develop python code	https://www.python. org/downloads/relea se/python-370/	User should be able to develop a python code	Working as expected	Pass	Results verified	No	Gomanishwara
10_007	runctional	Python 3.7.0	After developing python code, commands are received just print the statements which	Python	2.Develop python code	SE/ PYCHOIT-370/	User should be able to get the results from the developed code	expected	rass	Results Verified	NO	
TC 008	Functional	Python 3.7.0	represent the control of	3.7.0(64 bit) installation	1.Downlinstall Python 3.7.0 2.After python code	Get the output from the code		Working as expected	Pass	Results verified	No	Gomanishwara
TC 009			Publish Data to The IBM Cloud	IBM Cloud Login ID & Password	1.Run the python code 2.Verify the displayed output	Publishment of python code	User should be able to publish the code	Working as expected	Pass	Results verified	No	Harish
TC_010	Web UI	Node Red & MIT Inventor	Create Web UI in Node- Red	MIT Inventor Login ID & password	1.Go to Node Red. Select http in & http response. Add functions and select another http in and http response. Connect them to IBM IoT output and function.Print the command statements such as Sprinkler ON/OFF, Alarm ON/OFF and sensor 2.Go to MIT app inventor and create frontend using buttons, horizontal arrangement, text bar, etc. Add blocks and so on to create back end. Verify the output	Sensors values and command values can be seen in the mobile application	Sensors values and command values should be seen in the mobile application	Working as expected	Pass	Results verified	No	Gomanishwara n
TC_011	Functional	IBM Cloudant DB	Configure the Node-RED flow to receive data from the IBM IoT platform and also use Cloudant DB nodes to store the received sensor data in the cloudant DB	IBM Cloud Login ID & Password	1.Go to IBM cloud, search Cloudant in Catalog, Add new dashboard, go to Node Red 2.Connect to cloudant and verify the results	Cloudant is connected by NODE RED	User should be able to connect the Cloudant and Node Red	Working as expected	Pass	Results verified	No	Harish