				Date	10-Nov-22								
				Team ID	PNT2022TMID35688								
				Project Name	Project - Real time river water quality monitoring and control system								
				Maximum Marks	4 marks								
Test case ID	**Feature Type**	**Component**	**Test Scenario**	**Pre-Requisite**	**Steps To Execute**	**Test Data**	**Expected Result**	**Actual Result**	**Status**	**Commnets**	**TC for Automation(Y/N)**	**BUG ID**	**Executed By**
LoginPage_TC_OO1	Functional	Home Page	Verify user is able to see the Login/Signup popup when user clicked on My account button	IBM Cloud services	1. Enter URL and click go 2. Click on My Account dropdown button 3. Verify login/Singup popup displayed or not	www.cloud.ibm.com	Login/Signup popup should display	Working as expected	Pass				C.Nandhini
LoginPage_TC_OO2	UI	Home Page	Verify the UI elements in Login/ Signup popup	IBM Cloud services	1. Enter URL and click go 2. Click on My Account dropdown button 3. Verify login/Singup popup with below UI elements: a.email text box b.password text box c.Login button d.New customer? Create account link e.Last password? Recovery password link	www.cloud.ibm.com	Application should show below UI elements: a.email text box b.password text box c.Login button with orange colour d.New customer? Create account link e.Last password? Recovery password link	Working as expected	Fail	Steps are not clear to follow			M.Rithika
LoginPage_TC_OO3	Functional	Home page	Verify user is able to log into application with Valid credentials	IBM Cloud services	1. Enter URL(https://shopenzer.com/) and click go 2. Click on My Account dropdown button 3. Enter Valid username/email in Email text box 4. Enter valid password in password text box 5. Click on login button	Username:815119106025 @smartinternz.com password: Ibmproject	User should navigate to user account homepage	Working as expected	Pass				A.sabna begam
LoginPage_TC_OO4	Functional	Login page	Verify user is able to log into application with InValid credentials	IBM Cloud services	1. Enter URL(https://shopenzer.com/) and click go 2. Click on My Account dropdown button 3. Enter InValid username/email in Email text box 4. Enter valid password in password text box 5.Click on login button	Username:815119106025 @smartinternz.com password: Ibmproject	Application should show 'Incorrect email or password ' validation message.	Working as expected	Pass				K.Annapooraneshwari
LoginPage_TC_OO4	Functional	Login page	Verify user is able to log into application with InValid credentials	IBM Cloud services	1. Enter URL(https://shopenzer.com/) and click go 2. Click on My Account dropdown button 3. Enter Valid username/email in Email text box 4. Enter Invalid password in password text box 5. Click on login button	Username:815119106025 @smartinternz.com password: Ibmproject	Application should show 'Incorrect email or password ' validation message.	Working as expected	Pass				C.Nandhini
LoginPage_TC_OO5	Functional	Login page	Verify user is able to log into application with InValid credentials	IBM Cloud services	1. Enter URL(https://shopenzer.com/) and click go 2. Click on My Account dropdown button 3. Enter InValid username/email in Email text box 4. Enter Invalid password in password text box 5. Click on login button	Username:815119106025 @smartinternz.com password: Ibmproject	Application should show 'Incorrect email or password ' validation message.	Working as expected	Pass				M.Rithika
Designing the circuit _TC_01	Functional	Backend	Creating the design flow and making the proper connection to get the output	Tinkercad	1.Creating an account in tinkercad. 2.Making the circuit connections . . 3.Editing the program as per the circuit . 4. simulating the project.	LED ON and OFF with Parameter values	The led must be able to operate with the program. The parameters must be obtained.	Not working as expected	Fail	Connection error			A.sabna begam

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Designing the circuit_TC_02	Functional	Backend	Creating the design flow and making the proper connection to get the output	Node-RED	1. Downloading all the dashboard nodes required. 2. Picking and pasting the dashboard nodes 3.Connecting the nodes 4.Deploying the design flow	Temperature=" " Turbidity=" " ph=" "	The Node Red must be able to get the real time values of temperature,pH and turbidity.	Working as expected	Pass				K.Annapooraneshwari
Designing the circuit_TC _03	Functional	Backend	Creating the design flow and making the proper connection to get the output	Node-RED	1. Downloading all the dashboard nodes required. 2. Picking and pasting the dashboard nodes 3.Connecting the nodes 4.Deploying the design flow	Temperature=" " Turbidity=" " ph=" "	The Node Red must be able to get the real time values of temperature,pH and turbidity.	Working as expected	Pass				C.Nandhini
Create a program suitable for the circuit and also compile and execute the programs_TC_01	Functional	Backend	Developing the python script to get the parameter values	Python 3.7	1.Installing python version 3.7.0 2.Developing the python code 3.Resolving the errors 4.Executing the program 5.Obtaining the output	Temperature=" " Turbidity=" " ph=" "	The program must be executed without any error and the values must be obtained.	Working as expected	Pass		Y		M.Rithika
Create a program suitable for the circuit and also compile and execute the programs._Tc_02	Functional	Backend	Developing the python script to get the parameter values	Python 3.7	1.Installing python version 3.7.0 2.Developing the python code 3.Resolving the errors 4.Executing the program 5.Obtaining the output	Temperature=" " Turbidity=" " ph=" "	The program must be executed without any error and the values must be obtained.	Working as expected	Pass		Y		A.sabna begam
Create a program suitable for the circuit and also compile and execute the programs_TC_03	Functional	Backend	Developing the python script to get the parameter values	Python 3.7	1.Installing python version 3.7.0 2.Developing the python code 3.Resolving the errors 4.Executing the program 5.Obtaining the output	Temperature=" " Turbidity=" " ph=" "	The program must be executed without any error and the values must be obtained.	Working as expected	Pass		Y		K.Annapooraneshwari
Create a program suitable for the circuit and also compile and execute the programs_TC_04	Functional	Backend	Developing the python script to get the parameter values	Python 3.7	1.Installing python version 3.7.0 2.Developing the python code 3.Resolving the errors 4.Executing the program 5.Obtaining the output	Temperature=" " Turbidity=" " ph=" "	The program must be executed without any error and the values must be obtained.	Working as expected	Pass		Y		C.Nandhini
connect the output values to the cloud services by using NODE RED._TC_01	Functional	Backend	Connecting the python code with the node red by providing the watson credentials	IBM IOT Watson platform and Node-RED	1. Provide the watson credentials in the python script 2. Verify the values are displayed in node red 3. Values must be obtained in watson,Node-red and python	Temperature=" " Turbidity=" " ph=" "	The Temperature,pH and Turbidity values must be obtained.	Not working as expected	Fail	Not authorised			M.Rithika
connect the output values to the cloud services by using NODE RED_TC_02	Functional	Backend	Connecting the python code with the node red by providing the watson credentials	IBM IOT Watson platform and Node-RED	1. Provide the watson credentials in the python script 2. Verify the values are displayed in node red 3. Values must be obtained in watson,Node-red and python	Temperature=" " Turbidity=" " ph=" "	The Temperature,pH and Turbidity values must be obtained.	Working as expected	Pass				A.sabna begam

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connect the output values to the cloud services by using NODE RED_TC_03	Functional	Backend	Connecting the python code with the node red by providing the watson credentials	IBM IOT Watson platform and Node-RED	1. Provide the watson credentials in the python script 2. Verify the values are displayed in node red 3. Values must be obtained in watson,Node-red and python	Temperature=" " Turbidity=" " ph=" "	The Temperature,pH and Turbidity values must be obtained.	Working as expected	Pass				K.Annapooraneshwari
Make the data's store in IBM cloudant database_TC_01	Functional	Storage	Creating the cloudant DB in IBM cloud services to store the parameter values.	IBM Cloudant DB	1. Create the cloudant dB in IBM cloud services 2. Connect the Cloudant node to the design flow 3. Open cloudant and check whether the values are stored.	Temperature=" " Turbidity=" " ph=" "	The parameters values must be stored in the cloudant DB.	Not working as expected	Fail	Unable to access			C.Nandhini
Make the data's store in IBM cloudant database_TC_02	Functional	Storage	Creating the cloudant DB in IBM cloud services to store the parameter values.	IBM Cloudant DB	1. Create the cloudant dB in IBM cloud services 2. Connect the Cloudant node to the design flow 3. Open cloudant and check whether the values are stored	Temperature=" " Turbidity=" " ph=" "	The parameters values must be stored in the cloudant DB.	Working as expected	Pass				M.Rithika
Make the data's store in IBM cloudant database_TC_03	Functional	Storage	Creating the cloudant DB in IBM cloud services to store the parameter values.	IBM Cloudant DB	1. Create the cloudant dB in IBM cloud services 2. Connect the Cloudant node to the design flow 3. Open cloudant and check whether the values are stored	Temperature=" " Turbidity=" " ph=" "	The parameters values must be stored in the cloudant DB.	Working as expected	Pass				A.sabna begam
Make the data's store in IBM cloudant database_TC_04	Functional	Storage	Creating the cloudant DB in IBM cloud services to store the parameter values.	IBM Cloudant DB	1. Create the cloudant dB in IBM cloud services 2. Connect the Cloudant node to the design flow 3. Open cloudant and check whether the values are stored	Temperature=" " Turbidity=" " ph=" "	The parameters values must be stored in the cloudant DB.	Working as expected	Pass				K.Annapooraneshwari
Make the data's store in IBM cloudant database_TC_05	Functional	Storage	Creating the cloudant DB in IBM cloud services to store the parameter values.	IBM Cloudant DB	1. Create the cloudant dB in IBM cloud services 2. Connect the Cloudant node to the design flow 3. Open cloudant and check whether the values are stored	Temperature=" " Turbidity=" " ph=" "	The parameters values must be stored in the cloudant DB.	Working as expected	Pass				C.Nandhini
Connects the cloud data with the authorities communication device. _TC_01	Functional	User Interface	Making the parameter values visible in the mobile through MIT app inventor.	MIT app inventor	1. Install MIT Ai2 companion app in mobile phone. 2. Scan QR code with mobile device. 3. Check whether the values can be obtained in the mobile.	Temperature=" " Turbidity=" " ph=" "	The parameter values must be visible in the mobile application.	Not working as expected	Fail	Error 1101		Error 1101	M.Rithika
Connects the cloud data with the authorities communication device._TC_02	Functional	User Interface	Making the parameter values visible in the mobile through MIT app inventor.	MIT app inventor	1. Install MIT Ai2 companion app in mobile phone. 2. Scan QR code with mobile device. 3. Check whether the values can be obtained in the mobile.	Temperature=" " Turbidity=" " ph=" "	The parameter values must be visible in the mobile application.	Working as expected	Pass				A.sabna begam

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Connects the cloud data with the authorities communication device._TC_03	Functional	User Interface	Making the parameter values visible in the mobile through MIT app inventor.	MIT app inventor	1. Install MIT Ai2 companion app in mobile phone. 2. Scan QR code with mobile device. 3. Check whether the values can be obtained in the mobile.	Temperature=" " Turbidity=" " ph=" "	The alert messages must be sent to the authorities with the exact values.	Working as expected	Pass				K.Annapooraneshwari
Alerts has to be sent to the authorities _TC_01	UI	Display	Making the alert messages reach the authorities with the parameter values.	Messaging Tool	1.Sign in with messaging platforms like Fast SMS. 2.Connect the values and provide the thereashold values. 3.Provide contact numbers or mail id . 4. Check for the alert messages	Alert!!! The water is not fit to use	The alert messages must be sent to the authorities with the exact values.	Not working as expected	Fail	Error			C.Nandhini
Alerts has to be sent to the authorities _TC_02	UI	Display	Making the alert messages reach the authorities with the parameter values.	Messaging Tool	1. Install MIT Ai2 companion app in mobile phone. 2. Scan QR code with mobile device. 3. Check whether the values can be obtained in the mobile.	Alert!!! The water is not fit to use	The alert messages must be sent to the authorities with the exact values.	Not working as expected	Pass				M.Rithika
Alerts has to be sent to the authorities _TC_03	UI	Display	Making the alert messages reach the authorities with the parameter values.	Messaging Tool	1. Install MIT Ai2 companion app in mobile phone. 2. Scan QR code with mobile device. 3. Check whether the values can be obtained in the mobile.	Alert!!! The water is not fit to use	The alert messages must be sent to the authorities with the exact values.	Working as expected	Pass				A.sabna begam
Final Report Output_TC_01	UI	Output	The entire project is simulated and the outputs are recorded.	Project doc	1. The entire output can be obtained. 2. Final report is prepared wi th the suggested format	Alert!! The water is not fit to use. Temperature=" " Turbidity=" " ph=" "	The entire system must work accordingly.	Working as expected	Pass				K.Annapooraneshwari
Final Report Output_TC_02	UI	Output	The entire project is simulated and the outputs are recorded.	Project doc	1. The entire output can be obtained. 2. Final report is prepared wi th the suggested format	Alert!! The water is not fit to use. Temperature=" " Turbidity=" " ph=" "	The entire system must work accordingly.	Working as expected	Pass				C.Nandhini

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	Test Scenarios
1	Verify user is able to see login page
2	Verify user is able to get gauge values
3	Verify user is able to get the parameter values
4	Verify user is able to get the alert messages
5	Verify the project works in real time