Date	10-11-22
Team ID	PNT2022TMID06701
Project Name	Project - Real time river water quality monitoring and control system
Maximum Marks	4 marks

Feature Type	Compone nt	Test Scenario	Pre-Requisite	Steps To Execute	Test Data
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
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
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
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
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
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
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
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=" "
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=" "
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=" "
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=" "

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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=" "
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=" "
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=" "
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=" "
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=" "
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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=" "
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=" "
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=" "
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=" "

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
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
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
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=" "
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=" "

Expected Result	Actual Result	Status	Commnets	TC for Automation(Y/N)	BUG ID	Executed By
Login/Signup popup should display	Working as expected	Pass				S. Logesh
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			S. Sanjai
User should navigate to user account homepage	Working as expected	Pass				S. Manigandan
Application should show 'Incorrect email or password ' validation message.	Working as expected	Pass				G. Bharathi
Application should show 'Incorrect email or password ' validation message.	Working as expected	Pass				S. Logesh
Application should show 'Incorrect email or password ' validation message.	Working as expected	Pass				S. Sanjai
The led must be able to operate with the program. The parameters must be obtained.	Not working as expected	Fail	Connection error			S. Manigandan
The Node Red must be able to get the real time values of temperature,pH and turbidity.	Working as expected	Pass				G. Bharathi
The Node Red must be able to get the real time values of temperature,pH and turbidity.	Working as expected	Pass				S. Logesh
The program must be executed without any error and the values must be obtained.	Working as expected	Pass		Y		S. Sanjai
The program must be executed without any error and the values must be obtained.	Working as expected	Pass		Y		S. Manigandan

The program must be executed without any error and the values must be obtained.	Working as expected	Pass		Y		G. Bharathi
The program must be executed without any error and the values must be obtained.	Working as expected	Pass		Y		S. Logesh
The Temperature,pH and Turbidity values must be obtained.	Not working as expected	Fail	Not authorised			S. Sanjai
The Temperature,pH and Turbidity values must be obtained.	Working as expected	Pass				S. Manigandan
The Temperature,pH and Turbidity values must be obtained.	Working as expected	Pass				G. Bharathi
The parameters values must be stored in the cloudant DB.	Not working as expected	Fail	Unable to access			S. Logesh
The parameters values must be stored in the cloudant DB.	Working as expected	Pass				S. Sanjai
The parameters values must be stored in the cloudant DB.	Working as expected	Pass				S. Manigandan
The parameters values must be stored in the cloudant DB.	Working as expected	Pass				G. Bharathi
The parameters values must be stored in the cloudant DB.	Working as expected	Pass				S. Logesh
The parameter values must be visible in the mobile application.	Not working as expected	Fail	Error 1101		Error 1101	S. Sanjai
The parameter values must be visible in the mobile application.	Working as expected	Pass				S. Manigandan
The alert messages must be sent to the authorities with the exact values.	Working as expected	Pass				G. Bharathi

The alert messages must be sent to the authorities with the exact values.	Not working as expected	Fail	Error			S. Logesh
The alert messages must be sent to the authorities with the exact values.	Not working as expected	Pass				S. Sanjai
The alert messages must be sent to the authorities with the exact values.	Working as expected	Pass				S. Manigandan
The entire system must work accordingly.	Working as expected	Pass				G. Bharathi
The entire system must work accordingly.	Working as expected	Pass				S. Logesh