

| | | | | Date | 16 November 2022 | | | | | | | |
|--------------------------------|----------------|-------------------|---|--------------------|--|---|--|---------------------|--------|-------------------------|--------|--|
| | | | | Team ID | PNT2022TMD26030 | | | | | | | |
| | | | | Project Name | Project - IoT Based Safety Gadget for Child Safety Monitoring & Notification | | | | | | | |
| | | | | Maximum Marks | 4 marks | | | | | | | |
| Test case ID | Feature Type | Component | Test Scenario | Pre-Requisite | Steps To Execute | Test Data | Expected Result | Actual Result | Status | TC for Automation (Y/N) | BUG ID | Executed By |
| IBM CLOUD_TC_001 | Functional | IBM Cloud Service | Verify the login cloud services | Software | 1. Login in using cloud.ibm.com 2. Obtain promocode in ICT 3. Then apply code the and Login 4. The page will be directed to the IBM cloud account | email: abc@gmail.com Password : 86768989 | Successfully created the IBM account | Working as expected | Pass | YES | NIL | 1. Mithra shree.K.R 2. Ann Maria Fredy 3. Swethapriyaa.S 4. Tejaswini.G |
| IBM Watson IoT Platform_TC_OO2 | Functional | IBM Cloud Service | Verify create a device in the IBM Watson IoT platform and get the device credentials. | IBM Cloud Service | 1. In IBM Cloud Service go to catalog 2. Create and launch the IBM Watson IoT Platform 3.Login to the Platform by clicking organization ID 4.Create a device & configure the device type and ID 5.Generate the API Key | Create a device & integrate with code | {'name': 'Smartbridge', 'lat': 17.4219272, 'lon': 78.5488783} | Working as expected | Pass | YES | NIL | 1. Mithra shree.K.R 2. Ann Maria Fredy 3. Swethapriyaa.S 4. Tejaswini.G |
| PythonCode_TC_OO3 | Code | Python 3.9 | Verify wheather the python code is without error by running it | Software | 1. Download the python version3.9 2. Type the program and save it with the extention .py 3.Verify it by compiling the code | import json import wiotp.sdk.device import time import random myConfig = { "identity": { "orgId": "4o1qxb", | 022-11-18 12:25:57,235 wiotp.sdk.device.client. DeviceClient INFO Connected successfully: d4o1qxb: TestDeviceType:12345 | Working as expected | Pass | YES | NIL | 1. Mithra shree.K.R 2. Ann Maria Fredy 3. Swethapriyaa.S 4. Tejaswini.G |
| Node_Red_TC_004 | Non-Functional | IBM Cloud Service | Verify to create a node-red services | IBM cloud services | 1. In IBM cloud go to catalog 2. To create a Node-Red app 3. Click onto Deploy App 4. Visit the app URL 5. We need to connect the Node-Red with the IBM watson | We use a geofence node to form a circle shaped range whether the child is present in the circle or not. | Successfully created the node-red | Working as expected | Pass | NO | NIL | 1. Mithra shree.K.R 2. Ann Maria Fredy 3. Swethapriyaa.S 4. Tejaswini.G |
| CloudbantDB_TC_OO5 | Dataset | IBM Cloud Service | Verify the events is stored in the database | IBM Cloud Service | 1. Go to IBM Cloud Services 2. In resources list, click onto cloudbant 3. Click onto the launch dashbord to redirect to the cloud DB 4.Click onto create DB. | Document: tracker | Successfully created the Database | Working as expected | Pass | NO | NIL | 1. Mithra shree.K.R 2. Ann Maria Fredy 3. Swethapriyaa.S 4. Tejaswini.G |
| Web UI_TC_006 | Functional | Node-Red Service | To create a web UI to interact with user | Node-Red Service | 1. Go to Node-Red Dashboard 2. Make the necessary connection and deploy it. 3. Copy the URL and paste it in the new tab with ".ui" extention . 4. Display the child and geofence location. | Shows the locaion of parent and child | And as expected it displays the Position of the child and parent | Working as expected | Pass | NO | NIL | 1. Mithra shree.K.R 2. Ann Maria Fredy 3. Swethapriyaa.S 4. Tejaswini.G |
| FastSMS Service_TC_OO7 | Functional | Fast2SMS Service | To send SMS to the particular child's guardian | Software | 1. Login to Fast2SMS Service 2. GO to Dev API and select quick API 3. SMS will be sent using Flash SMS option to the registered number | Show the pop up SMS | Alert: The person is not in the particular geofence area | Working as expected | Pass | NO | NIL | 1. Mithra shree.K.R 2. Ann Maria Fredy 3. Swethapriyaa.S 4. Tejaswini.G |

Test Scenarios

- 1.) Verify the login cloud services
- 2.) Verify create a device in the IBM Watson IoT platform and get the device credentials.
- 3.) Verify wheather the python code is without error by running it
- 4.) Verify to create a node-red services
- 5.) Verify the events is stored in the database
- 6.) To create a web UI to interact with user
- 7.) To send SMS to the particular child's guardian