Project Title - IOT Product

Overview:

The client has so many advertising boards and lighting devices placed in the US. The project was related to advertising, video surveillance, and lighting devices. Clients want to check the temperature every hour, and if the temperature of any device is high compared to any fixed limit, then that device will be turned off and then will be turned on after some fixed time. The automation script should be run continuously and check the temperature regularly for all the devices located. If any device does not respond or if any failure occurs, a report of that device should be instantly sent to the support team.

Automation: -

- Developed test cases based on new requirement.
- Add test-data into script if the new device is added or removed.
- Worked on Looker (Business Intelligence Tool) Software to make Data Visualization Report Based on Generated Different type of Real time Data

Technology & Tools:

- Python, Py test
- HTML (For making a good-looking result report)
- Looker

Challenges we faced: (In Automation)

Problem 1: The script should not be stopped, or if the new devices are added, the script should automatically be considered, and that device should be checked.

Solution: We refresh the test-data file after every device is checked so it can consider a new added device as a priority.

Problem 2: If the device doesn't respond, a report should be automatically sent to the support team. Sometimes, due to a script issue, the script was failing, and a failed report was sent to any support team, and then, without surety, they had to start working on that.

Solution: If communication fails for any device, we track that device and create a parallel script to check that device after 3 tries, and if it fails after 3 tries, we send a report to the support team.