



Safety Brand Company

Company needed an Automation platform supporting most of its product lines in IoT .

Project Period: Ongoing

Team Size: 7 members

Protocols Used : WiFi, BLE, HTTPS

Tools Used : Robot framework, Python, Selenium, Appium, TestRail, Jira

Challenge

- Automation Framework for Multiple products managed using single Mobile Application.
- Manual interaction was required to initiate pairing mode in DUT (5 times button press).
- Effort and Schedule for Reliability testing(Long duration) with multiple configuration cycles

Outcome

- GadgEon designed Automation Framework that supports test case convergence spanning different product types with Mob App
- USB Controlled multichannel relay control for simulating button press events.
- Reduced effort and schedule by automating 90% of regression, reliability and performance test cases.

WHAT DID GADGEON DO?

PLATFORMS/TOOLS/TECHNOLOGIES USED

1) Defined Test Strategy for the complete system including CO/Smoke Detection System , Cloud Service and Mobile App.	Requirements Gathering & Analysis, defined functional test cases and uses case based on end to end scenarios
2) Simulated large network operations for performance bench marking and scalability testing .	Jmeter
3) Designed Automation framework which can validate MobApp, Device UI/CLI, Cloud API's and End node(USB/RS232 Interface)	Python based automation framework , Selenium Webdriver , Appium (for iOS & Android) Achieved 85 % of test coverage for functional test cases Achieved 100 % test coverage on regression test cases
4) Custom global methods are defined for test script reusability across different product variants.	Python, Appium , Selenium webdriver and Robot Framework
5) Automation framework supporting test evidence and detailed logs including screen shots for ease of debugging.	TestRail , Python, Appium , Selenium webdriver and Robot Framework
4) Security testing on Mobile and cloud application to identify the security risks.	Owasp
5) Implemented Continuous Integration process as part of development and testing phases	Jenkins, Git, Robot Framework



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