

# CQAA Automation Meet-Up: Successes, Challenges and Lessons Learned

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Test automation is essential to keep up with the velocity of Agile sprints and is key to reducing the cycle time and effort of a large and growing manual regression suite. Furthermore, without test automation DevOps will deploy new software builds quicker that may lack quality. There are various degrees of success with automation with some testing organizations achieving 70% automated tests while other testing groups try and abandon automation due to a lack of ROI or a huge maintenance headache.

During this Automation Meet-Up, participants had the opportunity to 'meet-and-greet' fellow test automation professionals, share their experiences, discuss the aspects of automation that work well, and ask others for advice.

## Test Automation Challenges Identified by Participants:

1. Too much testing overlap (redundancy)
2. Maintenance of existing scripts
3. UI change can cause changes to hundreds of test cases
4. Maintaining automated tests when requirements change
5. Too many test cases that are automated (~2500), a maintenance nightmare
6. Having system interdependencies where a small change can cause massive downstream issues
7. Priority of new scripts vs old scripts updates
8. Availability of developers to fix issues with testing tool
9. Time allocation to create automated tests
10. Integration of performance testing into Agile
11. How to bring DevOps to a waterfall-agile company
12. Dynamic workflow testing within cross platform application
13. (Game) Unity Platform automation
14. How to capture response and match it to pre-determined results
15. Linking test cases – the response of one test case is the input to the next test case
16. Testing the complete application
17. Inconsistent test execution reports and metrics
18. Building automation skills
19. Tools to automate on mobile devices (iPad, iOS, etc.)
20. Instability of Browserstack
21. Using home-grown automation tool that has its own bugs

## Test Automation Tools Used by Participants:

1. UFT
2. Charles Proxy
3. VeriFix
4. Tosca
5. Google Test
6. MSTest
7. Swagger
8. ITAS
9. LoadRunner
10. JMeter
11. JUnit
12. SoapUI
13. RedwoodHQ
14. VS Coded UI
15. Selenium
16. SonarQube
17. Postman

18. Browserstack
19. Jenkins
20. TestRunner
21. Ranorex
22. Appium
23. REST Assured
24. TestComplete
25. Hybrid
26. In-house Tool

**Types of Test Automation Conducted by Attendees:**

1. UI
2. API
3. Web Services
4. Micro Services
5. Integration
6. End-to-End
7. Database
8. Unit Tests
9. Regression