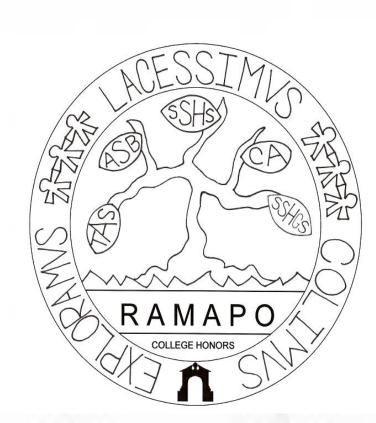


Automated Testing in Software Development

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Overview

Ouality Assurance and Testing has become more important than ever in the Software Development Life Cycle (SDLC). Manual testing can be a feasible option for smaller applications, but it isn't viable, reliable or adequate for large applications that are equipped with complex functionalities, operate with sensitive information, and serve a huge user base. That's where Test Automation comes into play speeding up the process while also maintaining a high degree of results accuracy.

What is Test Automation?

As the name suggests, Test Automation refers to the use of special software that operates under some testing framework to control the execution of tests automated through a proper implementation of scripts and datasets.

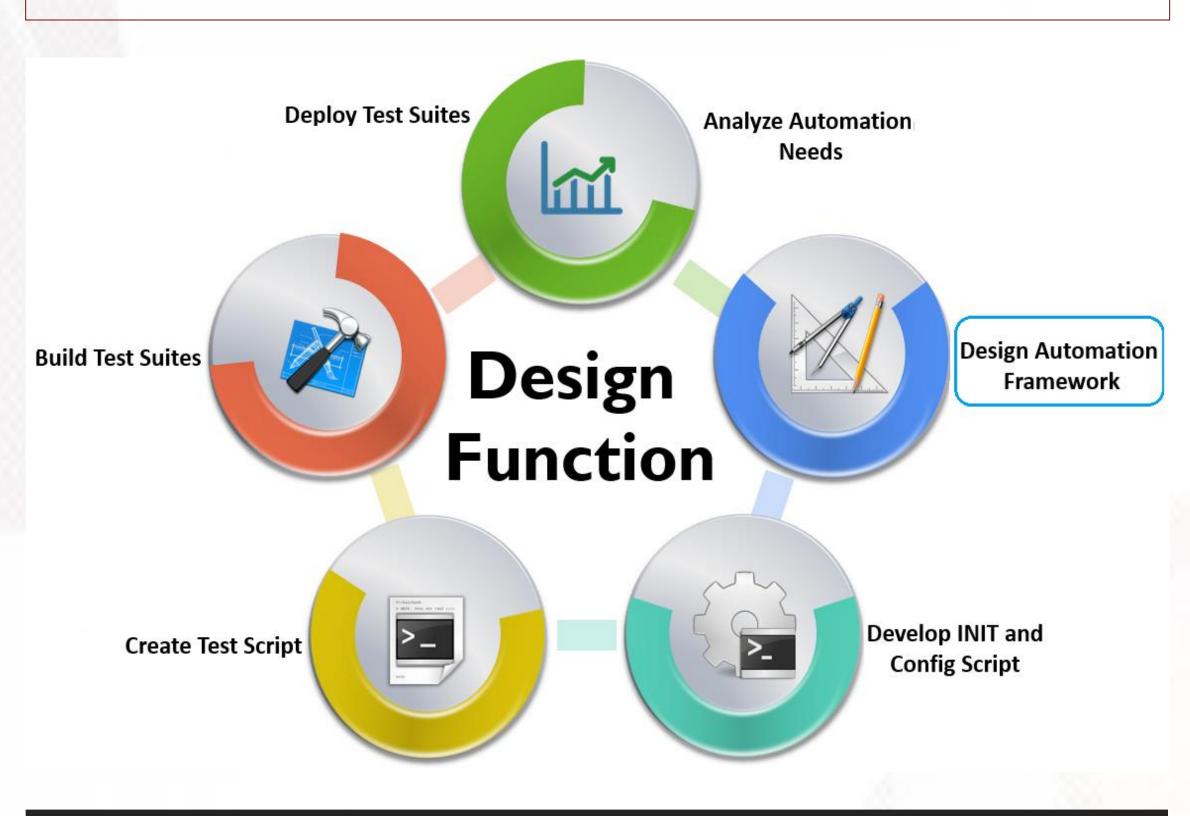
Why Automation?

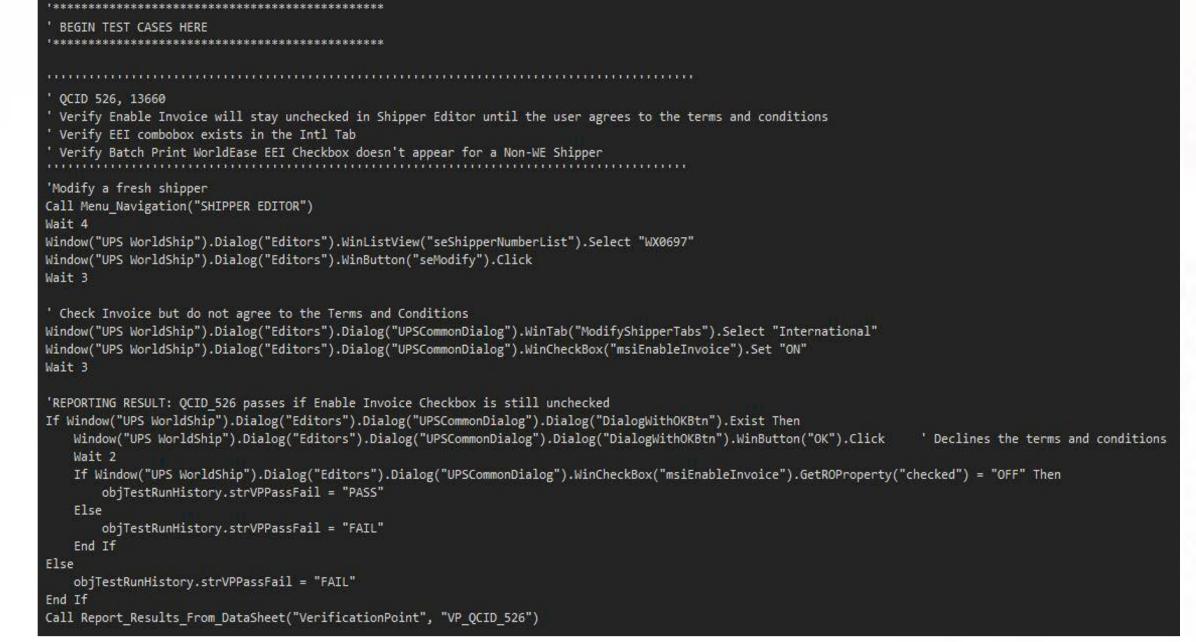
Automated testing is mainly geared towards:

- Higher accuracy, saving manual effort hours
- Increased coverage of testing areas
- Simulating real world environment with numerous users and high traffic to inspect software behavior
- Regression test suites to help preserve the quality of existing software behaviors despite new additions
- Libraries, data, and code reusability for testing new functionalities

Shift from Waterfall to Agile

As Agile Development has been taking the industry by storm, it has also reformed the testing process. The shift towards Agile methodology has vitalized the idea of unit testing resulting in more defects to be found and fixed before it starts a chain of other defects. Though new companies have been choosing agile over waterfall without a doubt, numerous teams in old software giants are still working on making the switch and are struggling with the migration.





Which Testing Framework is for you?

Curious about all the testing frameworks that are out there?

Looking for a proper framework to test that app you've developed?

Keyword
Driven
Framework

QTP
Framework
Types

Hybrid
Framework

BPT
Framework

Linear

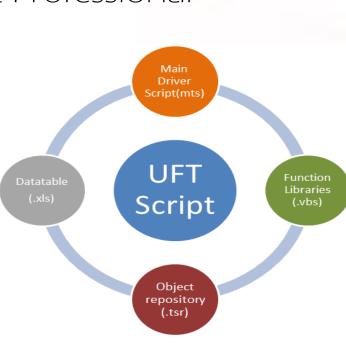
Stop by so we can have a chat about it. Maybe, I could share some

of my own experiences as an Automation Engineer developing and working with various testing technologies for the past two years at a leading fortune 50 company.

Technologies

Standard Industry Tools

- Development and Execution Platforms
 - > HP Unified Functional Testing, Visual Studio Test Professional
- Quality Management Software Solutions
 - Quality Center, Team Foundation Server
- Testing Environment
 - VMWare, Virtual Box



Examples of in-house industry tools for increased efficiency

- Integrated testing status notifications via text/email
- Trigger-based automated background processes for:
 - ➤ Environment configurations
 - > File transfers
 - Build Installations
 - > Result Verifications