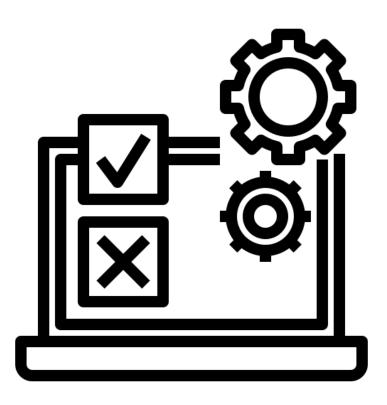
E2E and UAT Automation and lessons learned

Foreward



Outline

Types of testing

E2E / UAT

Legacy applications

Examples and Selenium demo

Strategies and getting started

About me

Mark Kalal

Software development / technology solutions

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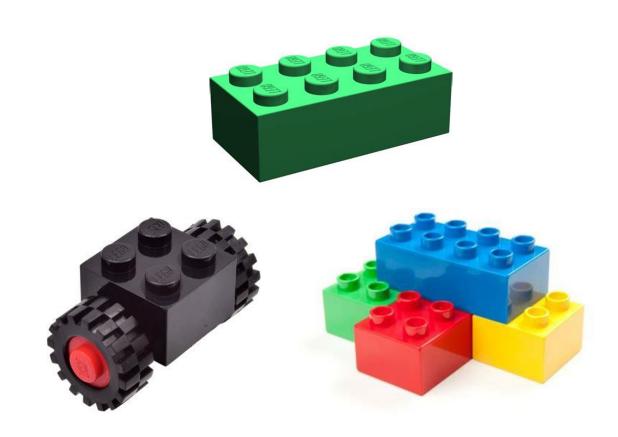
https://www.linkedin.com/in/markkalal/

Types of Testing

Unit testing

Integration testing

End-to-end testing

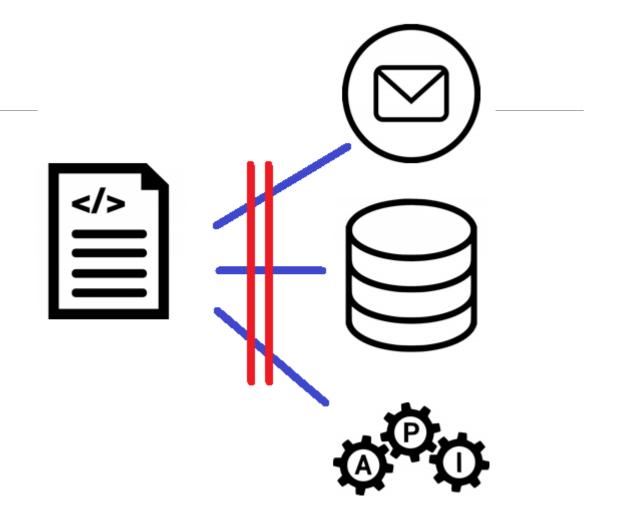


Unit Testing

Fast to run, repeatable

Efficient

Don't give complete view



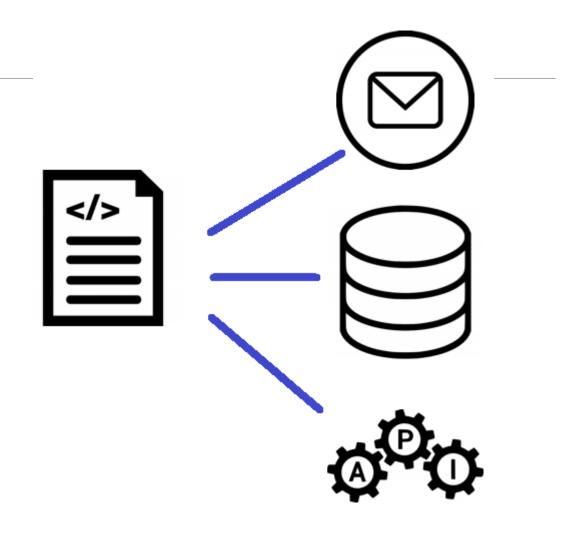


Integration Testing

Greater confidence

Impractical for rapid iterations

More prone to failure

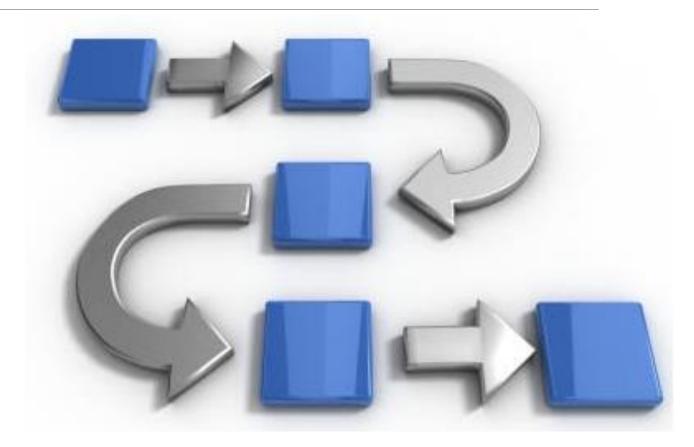


End To End Testing

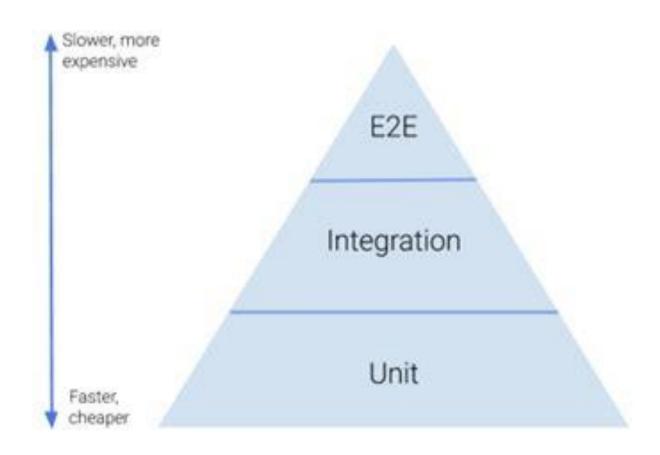
Greatest confidence

Longest, hardest

Can be challenging to automate



Test Pyramid

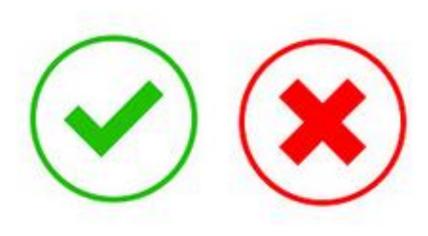


User Acceptance Testing

Verification vs Validation

Another "zen" topic

Scope?



When the code is an absolute mess but it works



The "Legacy" Application Challenge

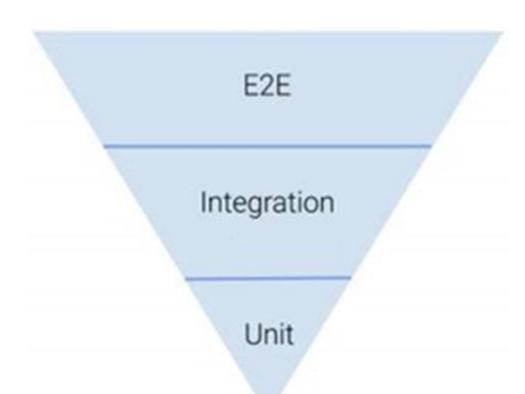
Unknown/unfamiliar

Few documents/tests

Hard to test



"Legacy" Pyramid?



Demo

Selenium IDE (browser extension)

Web Driver (C# test project)

Approach details

- Selectors
- Mechanics
- Org / flow

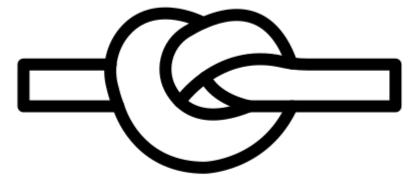


Tie it all together

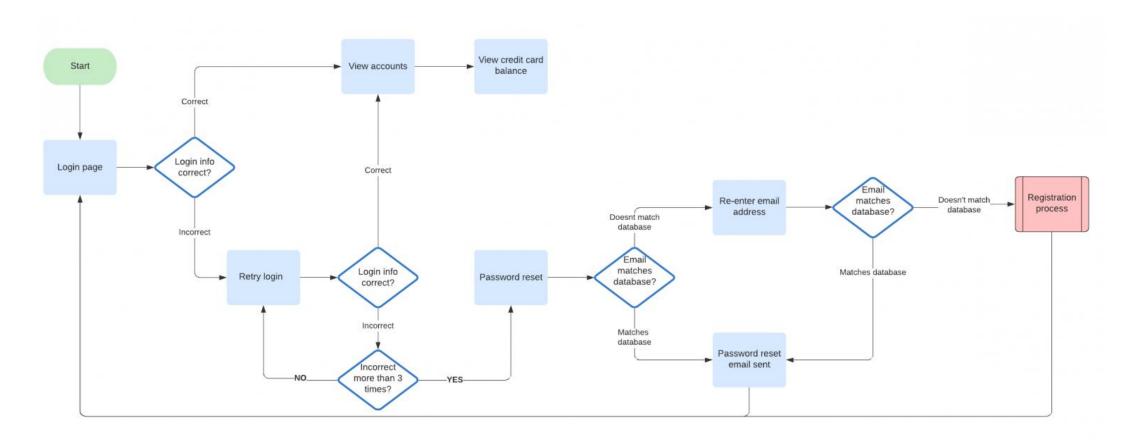
Get started

Benefits/problems

Strategies



User journey



Best Practices

Organization

Manual vs Pipeline

Data strategy?



"Legacy" Applications

Start with what you can

Refactor or not?

As code is added/refactored, include unit tests

Trouble spots are good candidates for tests



Summary

- ✓ Types of testing
- ✓E2E / UAT
- ✓ Legacy applications
- ✓ Examples and Selenium demo
- ✓ Strategies and getting started

For more information

E2E Testing - https://microsoft.github.io/code-with-engineering-playbook/automated-testing/e2e-testing/

Good Testing - https://codeanit.medium.com/developers-guide-write-good-test-5e3e3cdec78e

Selenium WebDriver - https://www.selenium.dev/selenium/docs/api/dotnet/

Selenium test pages - https://www.selenium.dev/selenium/web/index.html

This slide deck and code project – https://github.com/mdkalal/E2E

URList - https://www.theurlist.com/kalal-e2e



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Thank you!

Feedback welcome

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