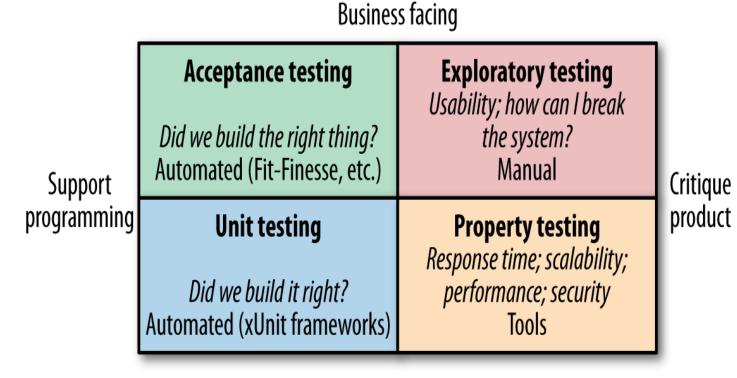
Test Automation Strategies and Frameworks in Agile Testing

Mahipal Singh Chouhan

Agenda

- > Agile Testing Quadrants
- > Test Automation Strategies
- > Test Automation Framework Design Pattern
- > Test Automation Governance

Agile Testing Quadrants

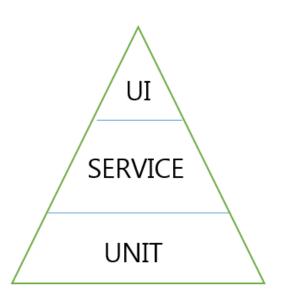


Technology facing

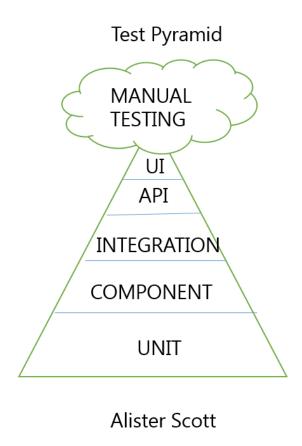
Brian Marick's Testing Quadrants

What to automate? When to automate?

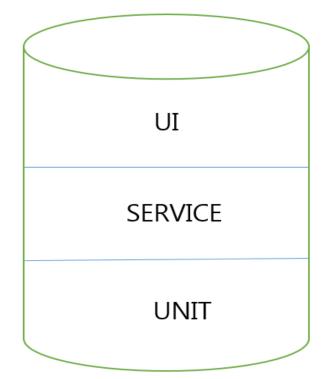
Test Automation Pyramid



Mike Cohn



Test Automation Cylinder



> Test Data Strategy

Unique Test Data

Create and Delete Test Data

Locator Strategy

Poor location Strategy

Target
Page object moves

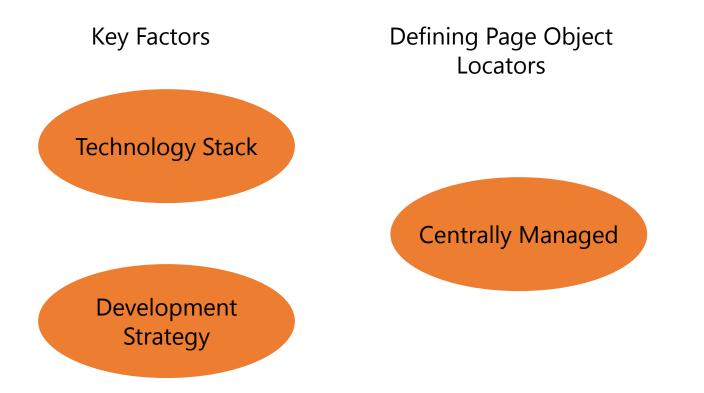
New page objects added/deleted

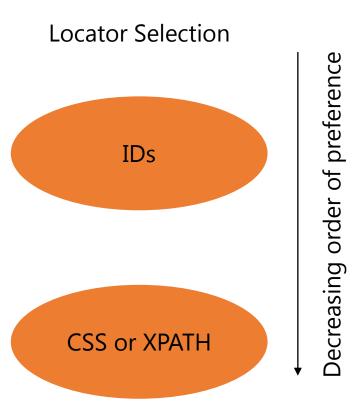
Changes in hardcoded locator data

Dynamically generated page objects

Changes in sort order due to addition/removal of test data

Locator Strategy





Wait Strategy



Implicit Waits



> Test Environment





Design for Scalability

Test Infrastructure

Modular and Independent Tests

> Test Execution

Integration with CD

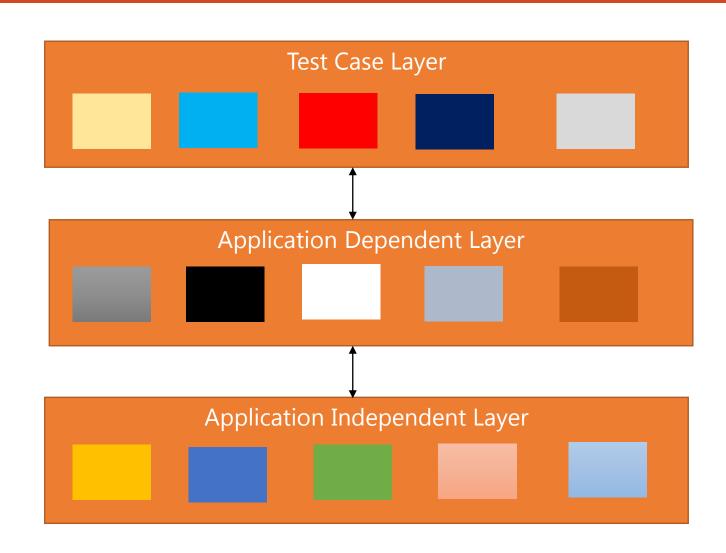
Faster Feedback

Important considerations for Test Automation Strategy

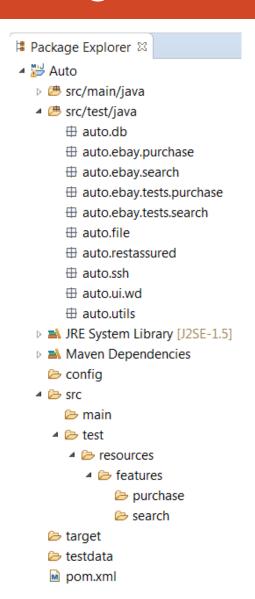


Test Automation Framework Design Pattern

Test Automation Framework



> Folder Structure



Test Automation Governance







Thank You