



A JOURNEY INTO TEST AUTOMATION

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Background

- ZAP Technology
- Data modelling software
- Quality team
- Myself



Overview

1

- Why automation

2

- What to automate

3

- Tool and environment

4

- Obstacles & solution

5

- Integration

6

- Demo & QnA

Why Automation



- More regression testing
- Shorter releasing cycle
- Repetitive simple tests
- Reliability
- Limited testing Resources
- Existing UI tests

What to automate (& what not)

- What to:
 - Repetitive tests runs often
 - Most basic tests
 - Application starts
 - Create model
 - Connect to data source
 - Model processes
 - Focus on finding critical P1 bugs
- What not to:
 - Scenario involves complicated user interaction
 - Complex data validation
 - UI elements that keep changing

Tools and testing environment

- Selenium web driver
- C#
- Nunit
- Git
- VMs

Obstacles & solution

- Selenium is FAST!
- Waiting game (explicit wait)
- Xpath vs Css selector
- Maintainable framework
- Logging and screenshot

Integration

- Team city (Continuous integration)
- Octopus (Continuous deployment)
- Branching for releases (Git)

Other random points

- Automation expose critical bug early
- Discover bug not easily noticed by manual test
- Get help from Dev
- Separation UI test project from product



DEMO



QUESTIONS?