Automate like a pro

Dealing with test automation hassles

with real project examples

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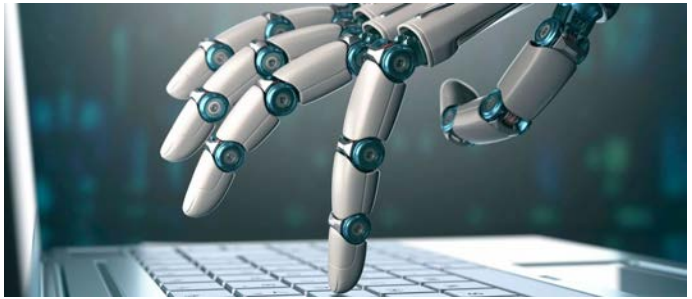
Automation is great..

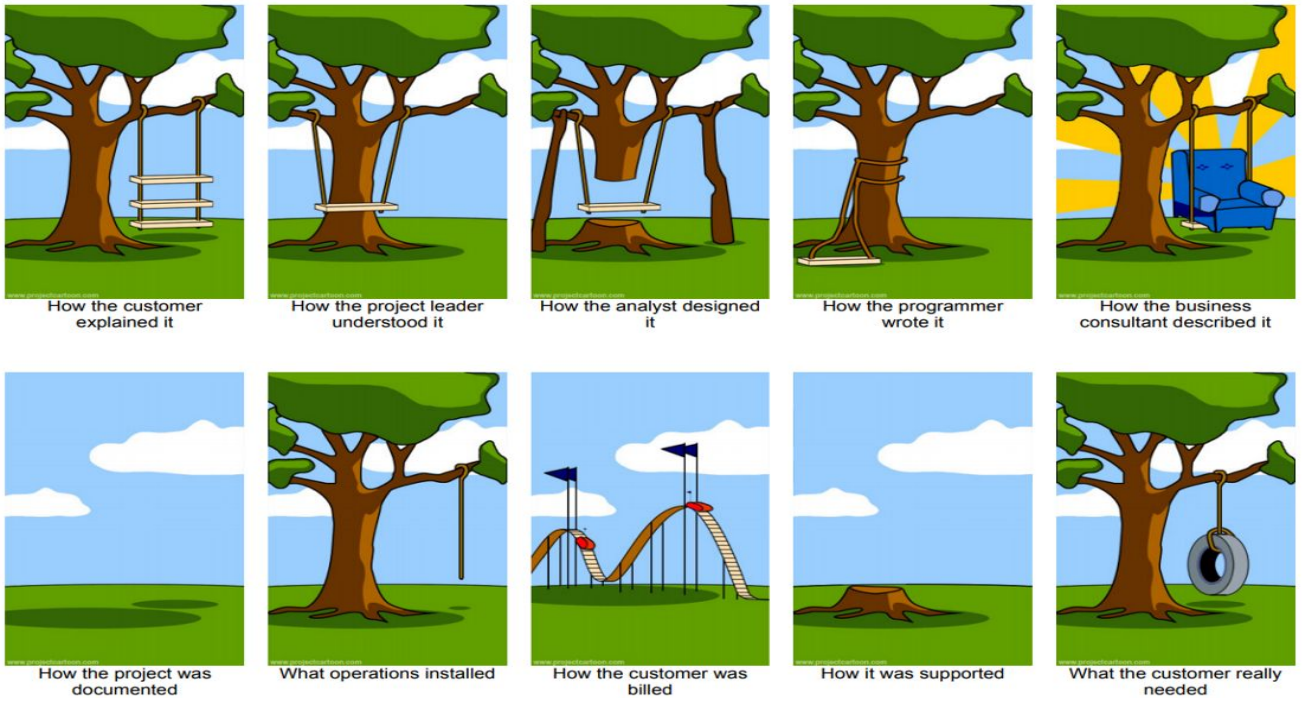
- Saves time
- Improves coverage
- Eliminate human effort
- Performs tasks that cannot be done by manual testers



BUT..

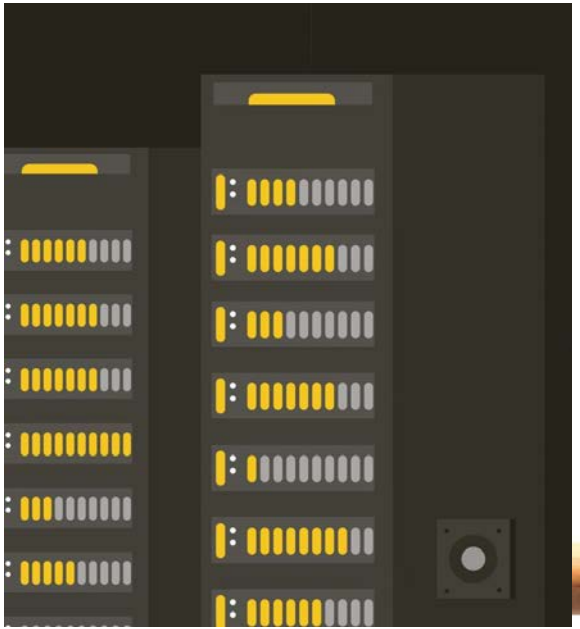
Workflows

Frequent Updates / Changes



Testing Environment

Instabilities



Product

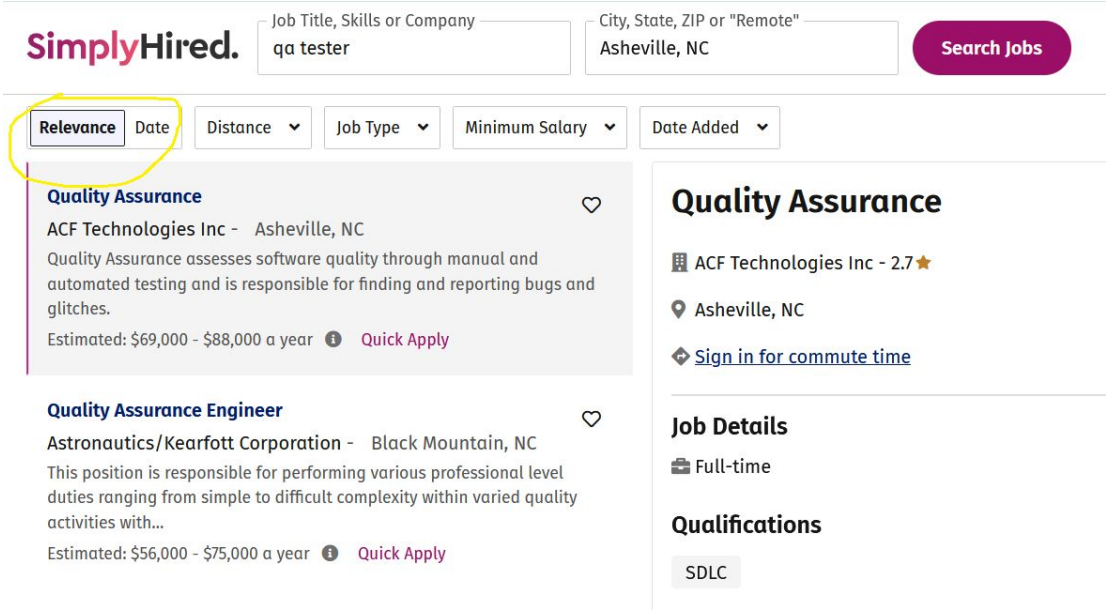
Testability

Product

Hardware

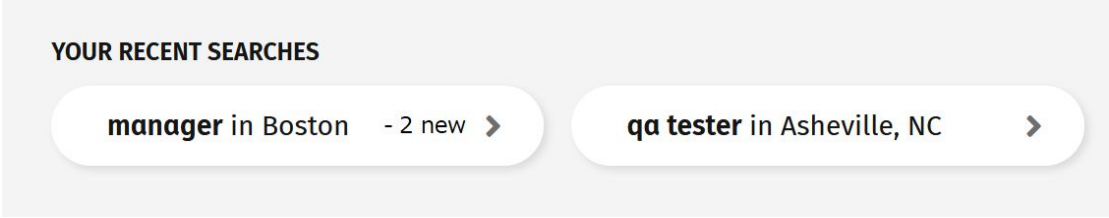
Product

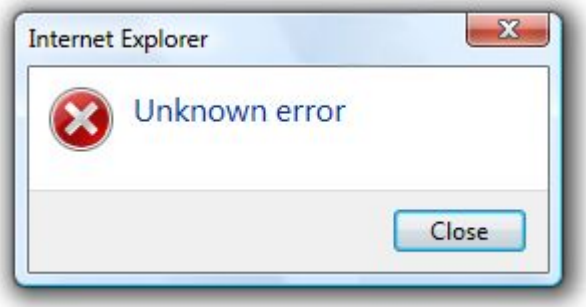
Testing AI



Non-functional aspects

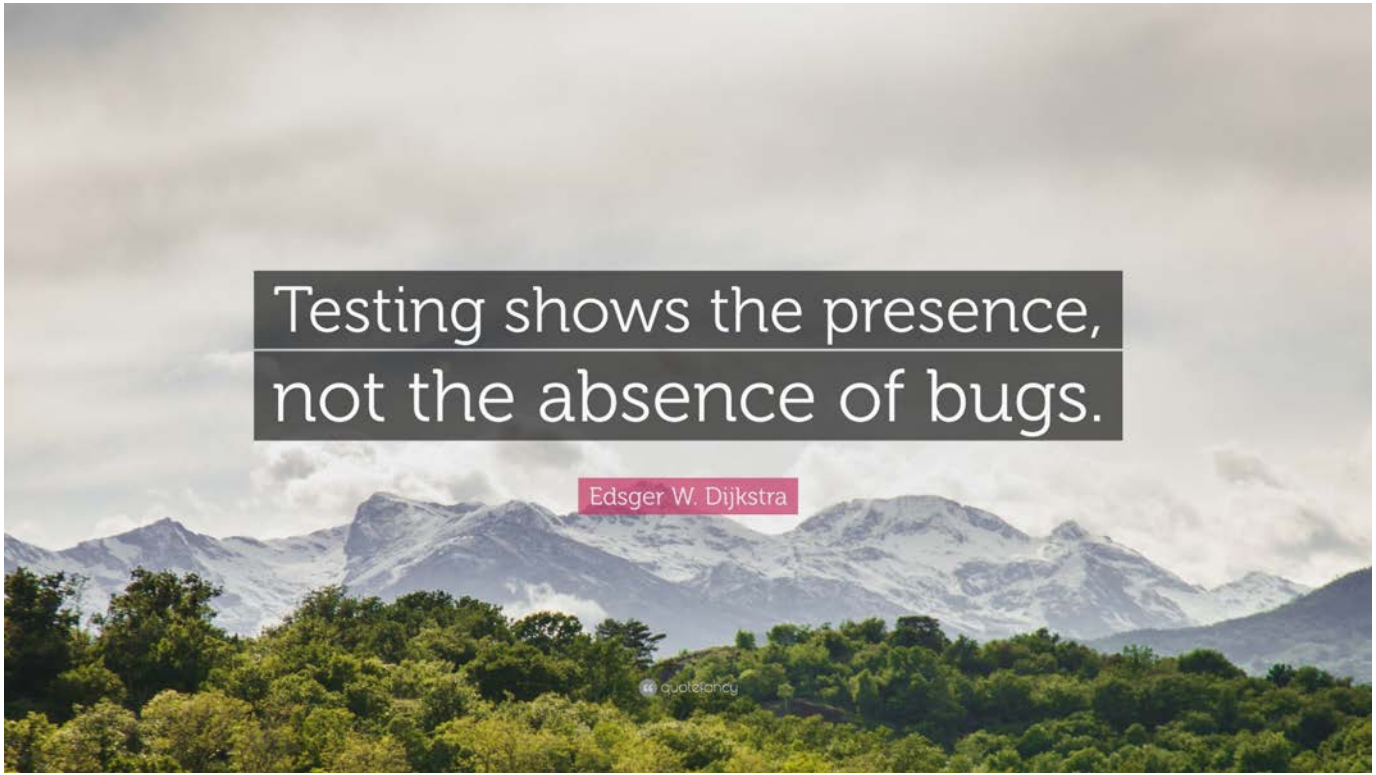
Usability





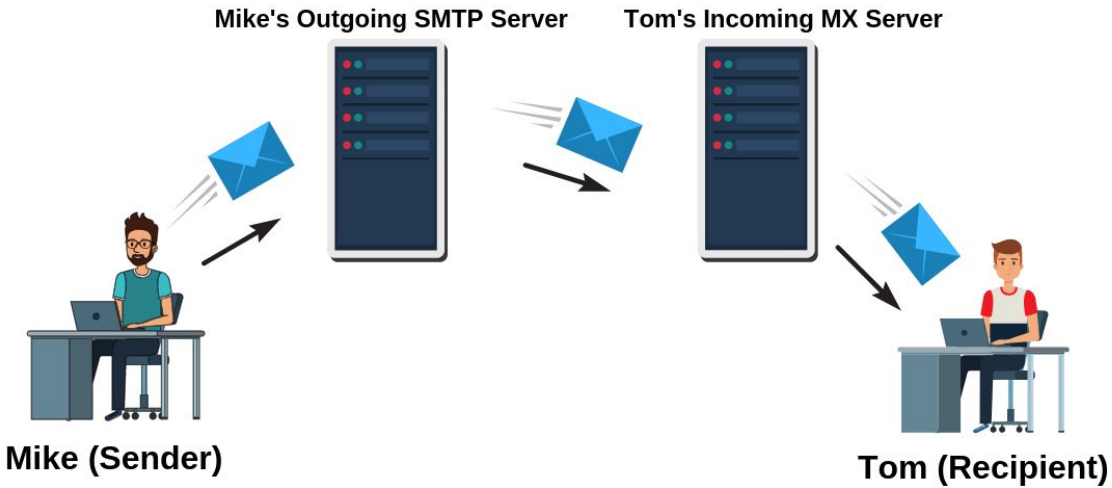
Non-functional aspects

Recoverability



Implementation

Not always easy to build / set up



Implementation

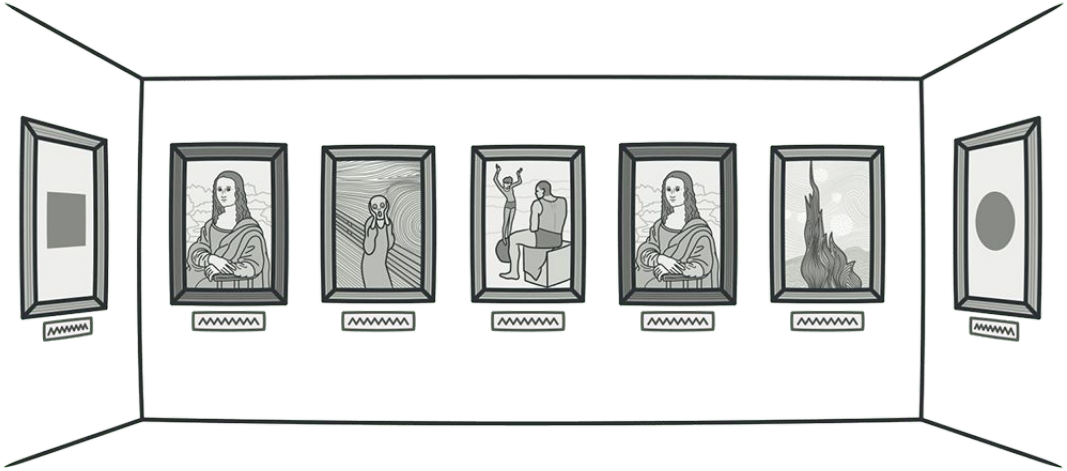
Not always easy to figure out

Execution

Long Running Tests

Maintenance

Code Quality



Maintenance

Reproduction of Bugs

Summary

• Frequent updates • Instabilities	• Early QA involvement • Test Robustness
• Testability • Hardware dependency • AI	• Dev team collaboration • Simulation • Experiments
• Usability - Recoverability	• User Surveys, Chaos Tests
• Setup - Implementation • Execution Durations • Code Quality • Reproducibility	• Coding Practices • Parallel Runs • Static / Dynamic Code Analysis • Evidence Collection

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