

Automating Everyday Tasks for Better Productivity

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Agenda

- Goal of Software Testing
- Effort vs Result Driven Testing
- What (not) to Automate?
- Exercises
- Conclusion

Goal of Software Testing

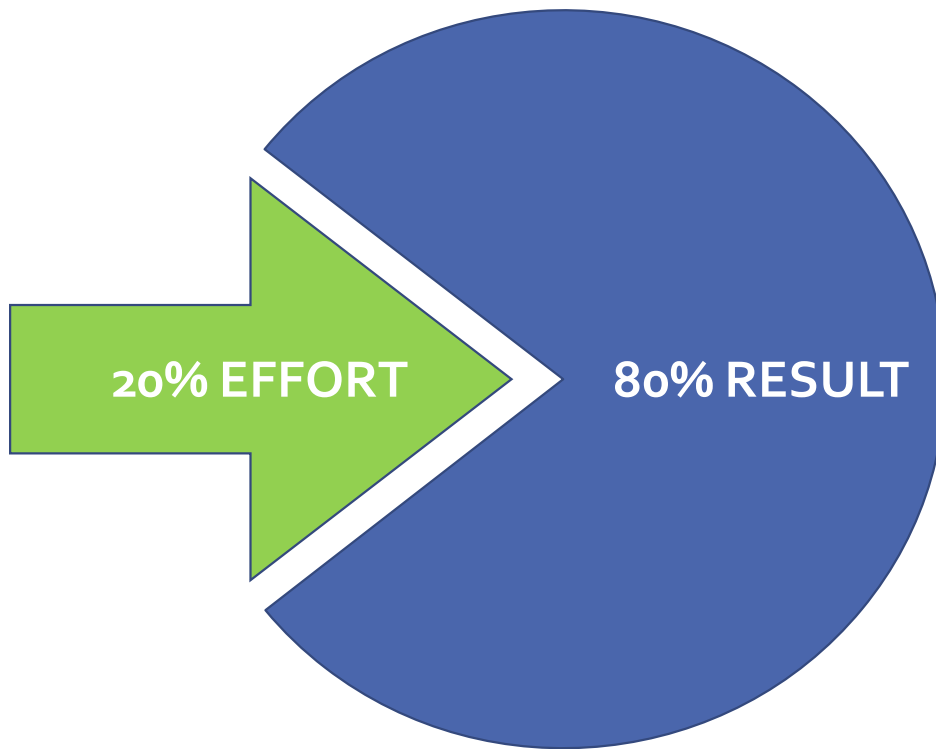


Effort vs Result Driven Testing



“For many events, roughly 80% of the effects come from 20% of the causes” – Vilfredo Pareto

Effort vs Result Driven Testing



What (not) to Automate

Initiation & Strategy

Initial knowledge transfer

Team buildup and kickoff

Setting up test environment

Identifying a test approach

Test planning and strategy

Test Design

Product understanding

Documentation of test cases and scenarios

Creation of test data

Test Execution & Reporting

Test case execution

Test automation

Test reporting

Wrap up

Test Analysis

Test result analysis

Metrics reporting

Retrospectives

Identification of improvement areas

Let's Do Some
Exercises!



Test phase: Reporting

Testing of AUT is finished. We are writing test report.

We have couple of minutes remaining to send final test report and then we realize that we forgot to fill in content of the test environment section.

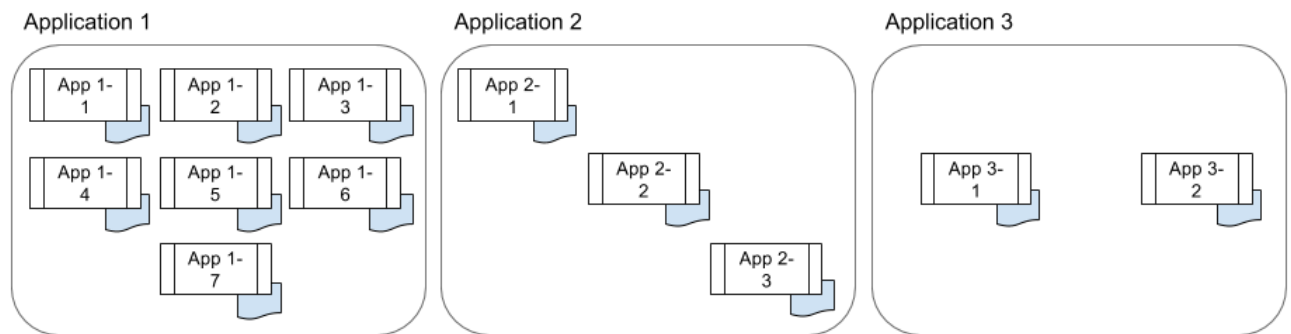
What shall we do?

Add System
Environment
Details to
Report

Test phase: Reporting

While executing three SUT, a number of log files is created. Although folder structure that keeps log files is complex it is necessary to preserve log files as evidence for future analysis.

How to avoid boring and error prone task of evidence gathering?



Preserve Log Files as Evidence

Test phase: Preparation

We are working in a complex environment in which initial database configuration defines context of the system, by enabling (or disabling) parts and functions of the SUT.

How to quickly switch test environment contexts?

Database Switch

Test phase: Preparation

We want to evaluate AUT behavior on the page that shows all users available in the system.

How to quickly import details of 1000+ users (full name, username, email address) into the system?

Evaluate All Users Page

All test phases

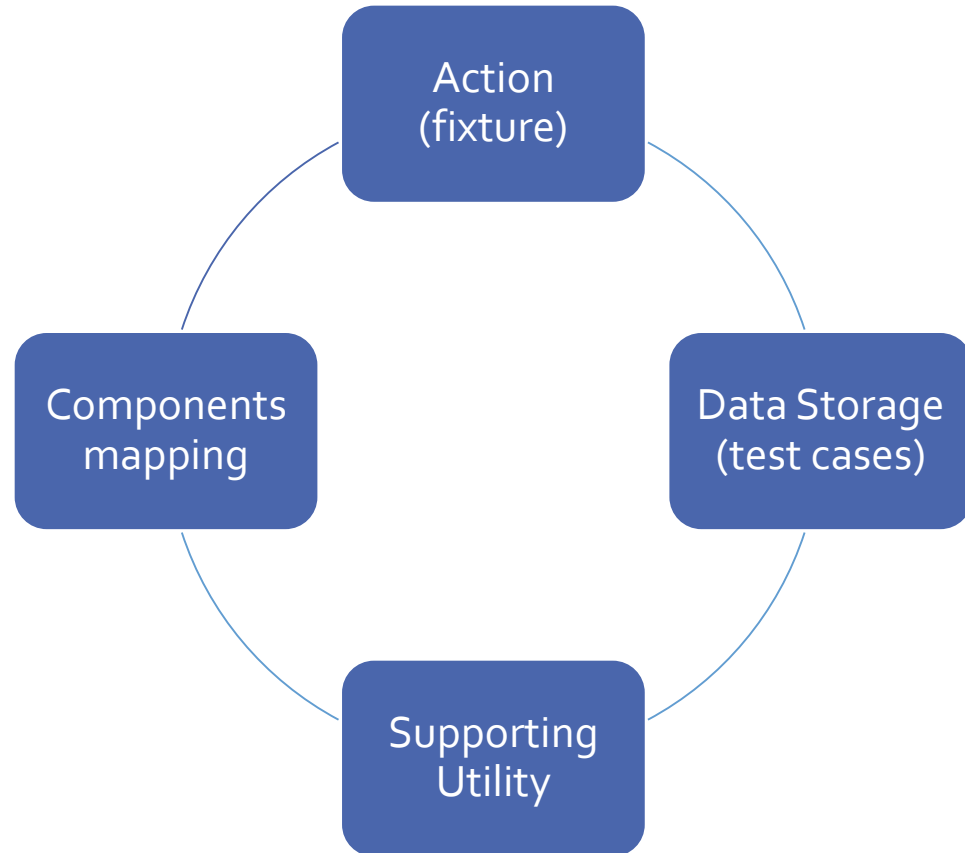
Execute test cases against the AUT, located here:

<http://localhost/LoginRegistrationForm/>

- Test scenario 1: Login
- Test scenario 2: Sign up

Data Driven Testing

Data Driven Testing



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✓ TEST'RS CLUB

Literature

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[J. Bach & M. Bolton - A Context-Driven Approach to Automation in Testing](#)

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