Agile + DevOps WEST

A TECHWELL EVENT

AD2

Agile Testing & Test Automation
10:30 AM

AD2 - What's That Smell? Tidying Up Our Test Code

Presented by:

Angie Jones

Applitools

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Angie Jones

Angie Jones is a Senior Developer Advocate who specializes in test automation strategies and techniques. She shares her wealth of knowledge by speaking and teaching at software conferences all over the world, as well as writing tutorials and blogs on angiejones.tech. As a Master Inventor, Angie is known for her innovative and out-of-the-box thinking style which has resulted in more than 25 patented inventions in the US and China. In her spare time, Angie volunteers with Black Girls Code to teach coding workshops to young girls in an effort to attract more women and minorities to tech.

What's That Smell?
Tidying Up Our Test Code

Angie Jones

http://angiejones.tech

http://TestAutomationU.com

@techgirl1908

Senior Developer Advocate

Director of Test Automation University

Applitools, San Francisco, CA, USA

@techgirl1908

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CODE SMELL

is an implementation that violates fundamental design principles in a way that may slow down development and increase the risk of future issues.

APPLICATION UNDER TEST

JAKE'S CODE BASE

LONG CLASS

📏

The purpose of the class is multifold.

To find anything, you must scroll and scroll.

ISSUES

1. No single responsibility

2. Hard to find things

3. Difficult to maintain

SEPARATE CONCERNS

LONG METHOD

📏

This guy does it all!
But it makes it hard to know when to call.

ISSUES

1. No single responsibility

2. Confusing for callers

3. Difficult to read and understand

SPLIT METHODS

DUPLICATE CODE

👯

When you find yourself
coding in haste,
it's very tempting
to copy and paste.

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ISSUES

1. Any change needed has to take place in multiple spots

2. Can lead to other smells

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REMOVE DUPLICATION

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FLAKY LOCATOR STRATEGY

At this moment,
your locators work fine.

But can they
stand the test of time?

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ISSUES

1. Fragility

2. Unreliability

STABILIZE LOCATORS

INDECENT EXPOSURE

🚿🛁

Too many see you.

Your scope is too wide.

All who should know you

ISSUES

1. Violates encapsulation

2. Allows tests to directly access and manipulate the DOM, which is not their responsibility

NARROW SCOPE

INEFFICIENT WAITS

⏲️

The speed of machine
is faster than man
so you slow it down
any way you can.

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ISSUES

1. Slows down runtime

2. Different environments may require different wait times

WAIT INTELLIGENTLY

MULTIPLE POINTS OF FAILURE

🎯

The framework's job
is to force state,
not to determine
a test's fate.

ISSUES

1. Violates single responsibility

2. Limits reusability

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INCREASE FLEXIBILITY

QUESTIONS?

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