

# A Tester and Developer Story

(Real Agile Quality)

by

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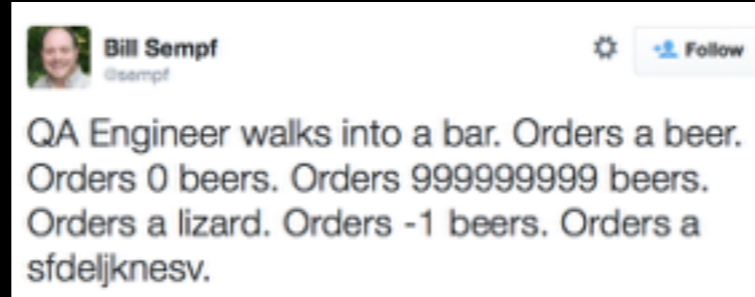
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Intro: Team in large corporate environment, aligned to business unit

# What do testers do?

- Catch bugs / problems.
- Validate requirements.
- Ensure quality software.



# Inspection

“In engineering activities inspection involves the measurements, tests, and gauges applied to certain characteristics in regard to an object or activity.”

-Wikipedia

- Testers taking requirements / specifications, then comparing to software.
- Looking for defects.

# What is Quality?

Internal vs External

- Steve McConnell - Code Complete.

# Internal Quality

(How well it's built)

- Have we built it right?
- Architecture and Design.
- Enable us to move quicker - agile. Embrace and respond to change.
- Internal Quality: Maintainability, Flexibility, Portability, Re-usability, Readability, Testability, and Understandability

# External Quality

(How well it solves the problem)

- External Quality: Correctness, Usability, Efficiency, Reliability, Integrity, Adaptability, Accuracy, and Robustness.
- Trust is built around these attributes.
- Meets the user's needs.
- External quality is that which changes the world for the better - Tom DeMarco.

Can inspection add to  
quality?

# Can inspection add to quality?

“Inspection does not improve the quality, nor guarantee quality. Inspection is too late. The quality, good or bad, is already in the product.”

- W. Edwards Deming

“You can not inspect quality into a product.”

- Harold F. Dodge



Can testers contribute  
to quality?

# The Tester's Mindset

- Testers good at testing all things: problems, ideas, assumptions, solutions.
- Constantly questioning and analysing.
- Assessing and evaluating risk.
- Combine a detailed focus with a broad big picture view.
- Continuously exploring and learning.
- Leverage off these - a real effect on quality.

How can we leverage the  
tester's mindset to  
improve quality?

# Principles

- Deliver value end-to-end
- Embrace cross-functionality & diversity
- Quality is everyone's responsibility
- Start with testing, and don't stop (especially process)
- Amplify communication
- Collaboration, not competition
- Measure value, not individuals

We're all problem solvers  
with different skills

This is how we see ourselves!

What can we do  
starting now?

# What can we do starting now?

- Let testers and developers move in together
- TDD with a tester
- Pair test with a tester
- Involve testers in conversations and meetings

- TDD - shared contexts forces to think risk and testability.
- Pair test - Fosters trust and respect for one another + very quick feedback
- Meetings - Only way to test upfront is with testers present.

How we do it



Work flows

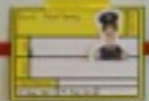
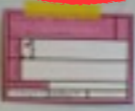
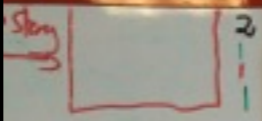


Work flows

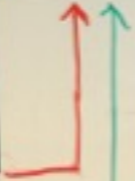
WIP (2)

TEST ASSUMPTIONS

- What's
- Anything to close?
- What's not
- What do we



Next

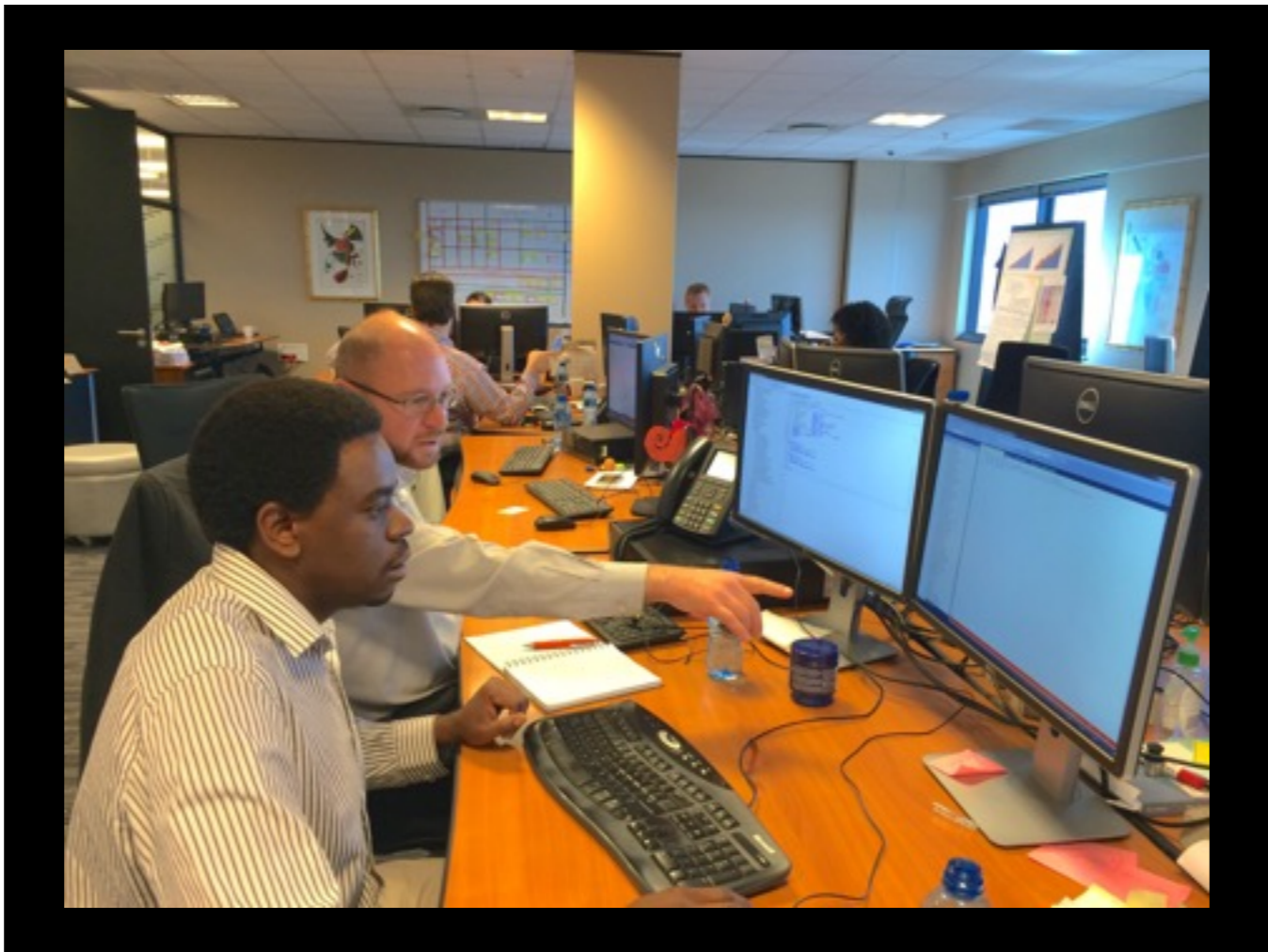


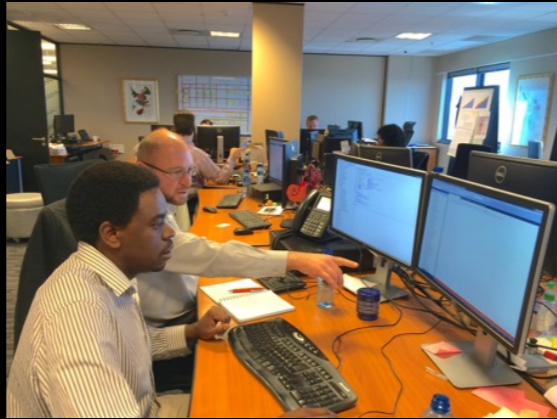
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Questions?