Perils & Pitfalls of the New "Agile" Tester

SQDG - March 2008

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Agenda

- Introduction
- Expectations of an Agile Tester
- The 5 Perils
 - How to identify them
 - The Risk of falling
 - Techniques to avoid them
- Wrap-Up
- References
- Q&A





Introduction – Agile Vocabulary

- Incremental and Iterative
- Stories
 - Build on one another
- Iterations
- Storyboard
 - Shows progress
- Feedback
 - Drives development
- Continuous Integration



Expectations of an Agile Tester

- Test without formal requirements documents
- Test in real time
- Test on changing code
- Test on changing requirements
- Automate "all" tests
- Be part of a close knit team





1-a. Waiting for Tuesday's Build

- Stories are stacking up in "To Test"
- Stories are not tested in the same iteration
- Deploys aren't tested regularly





1-b. Waiting for Tuesday's Build

- Stories don't get tested
- Testers lose credibility
- Velocity is affected
- Feedback is not fast enough to be useful
- Bugs aren't discovered until developers are on to the next story
- Testing runs late into the 'end game'





1-c. Waiting for Tuesday's Build

- Be proactive if you wait, you will be too slow
- Work with Build Master to get regular builds
- Plan for your test infrastructure
- Test immediately as soon as story is ready
- Test on developer's machine if necessary pair test
- Immediate feedback is key get them used to it
- Anyone can sign up for testing tasks
- Include testing tasks in velocity
- Plan so that testing is balanced with coding
- Hint:



2-a. You're Not "Really" Part of the Team

- Testers not included in iteration planning sessions
- Discussions held between developers & business users with no testers involved
- Testers not talking during iteration planning meetings
- Business Users define stories by themselves
- Testers don't understand the stories





2-b. You're Not "Really" Part of the Team

- Assumptions are not uncovered early
- Impacts to the system are found late
- Not the best use of everybody's skills
- You don't know what is going on!!!
- The team becomes divided





3-c. You're Not "Really" Part of the Team

- Push the whole team attitude
- Logistics sit with the developers
- Become a necessity; invite yourself
- Power of 3: make it mandatory
- Ask to "just try new ideas" for an iteration or two
- Be useful Constantly be testing and giving feedback
- Help customers develop stories
- Understand your role as tester





3-a. Maintaining a "Quality Police" Mindset

- All bugs are put into defect tracking system
- A separate test team
- The test team sits apart
- Test team can stop production





3-b. Maintaining a "Quality Police" Mindset

- The team does not buy into build "quality" in concept
- Developers start using the testers as a safety net
- Communication is through bug tracking system
- The team never 'jells'



3-c. Maintaining a "Quality Police" Mindset

- Get the whole team to own the "quality" of the product
- Show how each role adds value & quality
- Develop a relationship with the developers
- Use a 'consulting' mindset lend your expertise
- Ensure testing happens during the iteration
- Define "Done" up front with the whole team
- Try cards on the wall for bugs found on stories



4-a. Trying to Test Everything Manually

- Spending all your time retesting features already tested
- Not getting to new features
- Need more and more testers
- Not contributing to implementation / design discussions
- Regression suite not run regularly
- Making excuses to miss meetings





4-b. Trying to Test Everything Manually

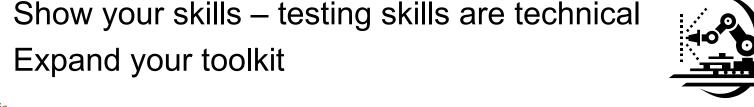
- Bugs already fixed, creep back in
- Testing cannot keep up with new stories
- Features that used to work and are broken aren't noticed
- The testers don't learn and progress using new technology
- Testers get stuck in a rut boredom
- Developers don't get as involved in the 'customer' testing





4-c. Trying to Test Everything Manually

- Use automation to build your regression suite
 - Automated suites become your change detector
 - Include your automation time in estimates
- Design for testability
- Automate as you go get developers involved
- Help developers to write good unit tests
- Find an automation tool that works for the entire team
- Understand the the power & risks of automation





5-a. Forgetting the Big Picture

- Testing only individual stories
- Finding story integration bugs late in the release
- Reports aren't getting developed until the end
- All testing is based on what the developer tells you
- Only exploratory testing being done after the code is done
- Testing finds 'requirements' type bugs
- Developers have to add extra code after they are done



5-b. Forgetting the Big Picture

- The right thing isn't built
- Stories don't connect; there are gaps
- Pieces of the puzzle don't fit
- Workflow is not smooth
- Decisions made during coding aren't aligned with the end goal





5-c. Forgetting the Big Picture

- Think about impacts to other parts of the system
- Find way to build test data that reflects 'real world'
- Use business-facing tests to help drive development
- Use whiteboards to draw pictures
- Understand the story before coding starts
- Think about workflows
- Use exploratory testing
- Use examples
- Build your acceptance tests first
- Have the developers refuse to code without tests



The Five Perils

- 1. Waiting for Tuesday's build
 - Not keeping up with developers
- 2. Not really part of the team
 - No input into requirements
- 3. Quality Police mindset
- 4. Trying to test everything manually
 - Thinking you are not technical enough
- 5. Forgetting the big picture
 - Testing only what the developer's build





Wrap-Up

Agile Testing is full of perils

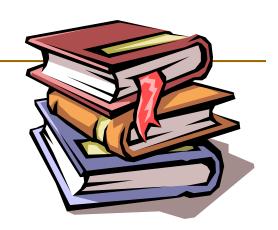
- Be aware, and watch for them
 - but don't let them scare you
- Problems happen faster so impact is felt faster
- Use an agile coach to help make changes
- Participate in the yahoo agile testing group
- Read articles and ask questions

Mostly, have fun and enjoy the challenge!



Resources

- agile-testing@yahoogroups.com
- lisa.crispin.home.att.net
- www.testing.com

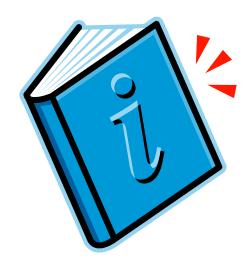


- Testing Extreme Programming, By Lisa Crispin and Tip House
- Fearless Change: Patterns for introducing new ideas, Linda Rising and Mary Lynn Manns
- Implementing Lean Software Development: From Concept to Cash,
 Mary and Tom Poppendieck



Coming in 2009!

Agile Testing By Lisa Crispin and Janet Gregory www.agiletester.ca





Question & Answer Time



