



Agile Testing

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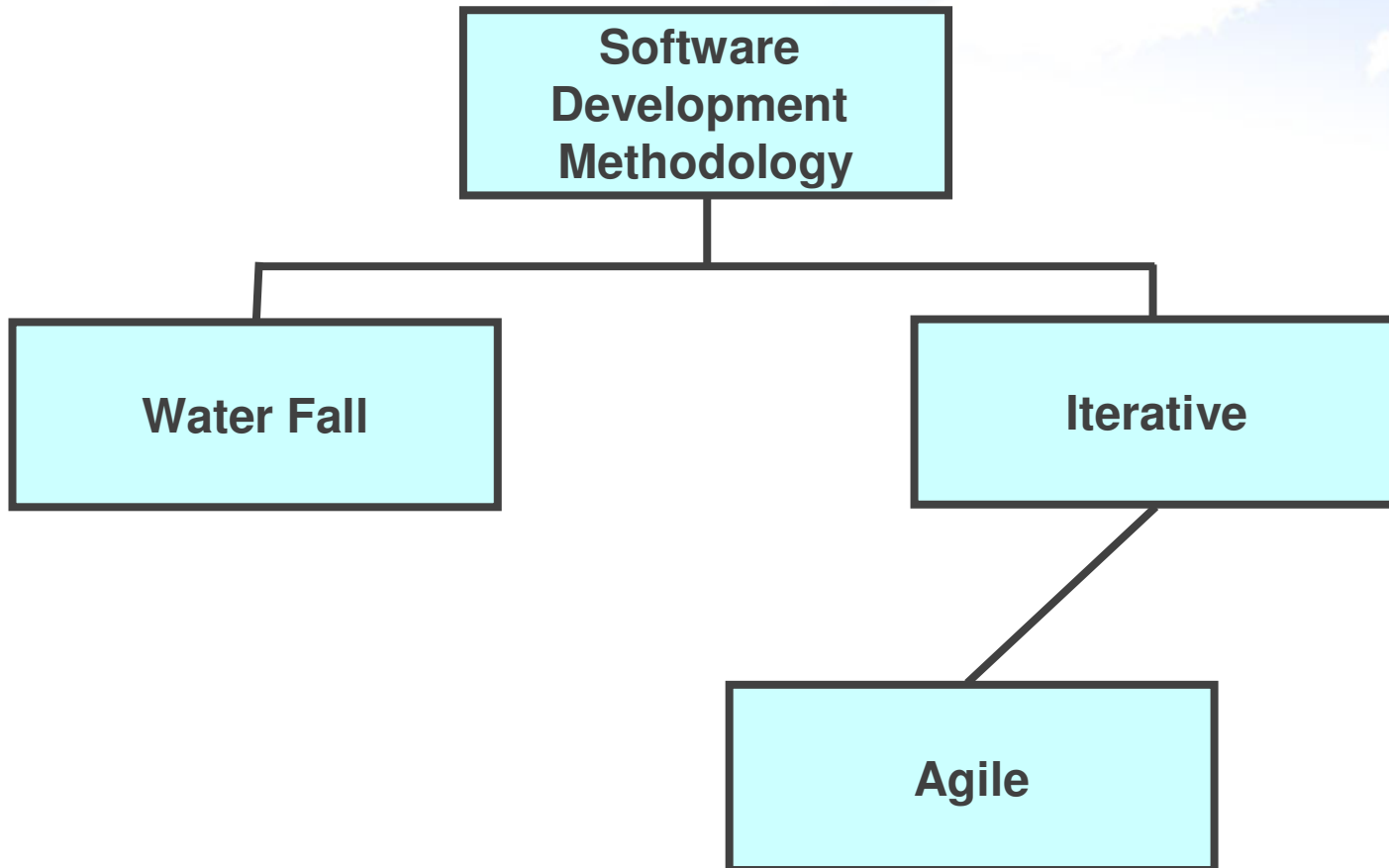


Agenda



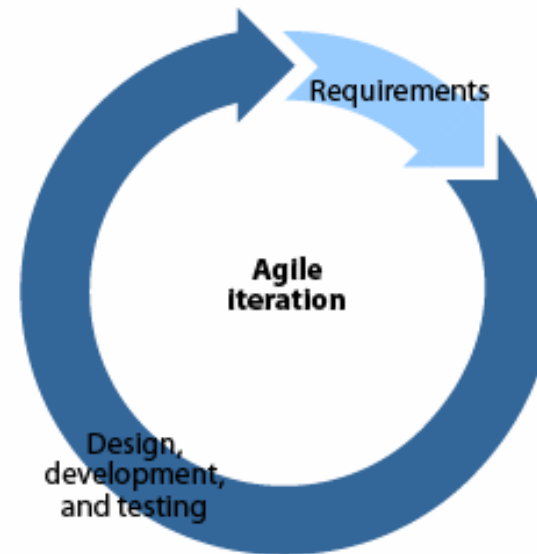
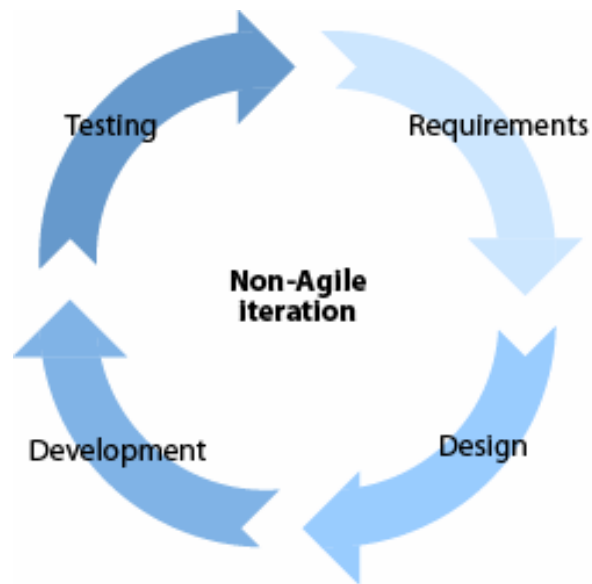
- Agile methodologies - Overview
- Agile from testing perspective
- What does it mean to be in Agile team as tester?
- Benefits of Agile tester
- Metrics
- Q & A

Development Methodology Classification



Iterations Vs Agile Iterations

- In Agile Iterations design, development and testing activities are mostly concurrent, NOT water fall
- “Just enough upfront design,” “real-time specification,” and “continuous testing.”



The Agile manifesto



Individuals and Interactions over process and tools

Work as one team, everyone responsible for quality, face to face communication

Working Software over comprehensive documentation

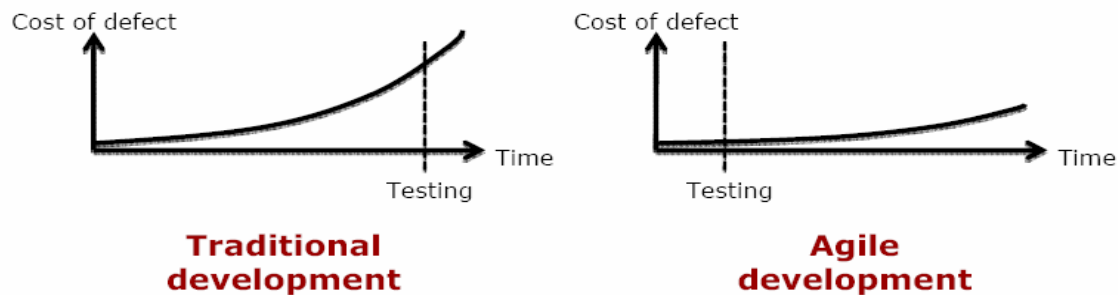
Light weight test documents, more automation

Customer Collaboration over contract negotiation

Responding to Change over following a plan

Agile – from testing perspective

- Moving testing to the beginning of the process



- Test Driven Development
- Automate as much as possible
- Continuous Integration

What does it mean to be in Agile team as tester?



- **Self Managed teams**
 - Empowered to take decisions
 - “It is not my job”

- **Team work**
 - Need to have common goals
 - Team has to have say in defining and agreeing to goals
 - Involve everyone earlier
 - Anyone can pick up testing

- **QA Vs Programmer – barrier**
 - QA and Programming are not treated as separate entity
 - Testing and Programming are part of the same team
 - Work together to achieve the team goal

What does it mean to be in Agile team as tester?



- **What does DONE mean?**
 - Not just working software with acceptable defect level
 - Automation to be in place (Unit test, Behind UI, Thru UI) is mandatory
- **Where is the specs? Is it in the specs? How do I write test cases without specs?**
 - Based on light weight spec in Sprint 0, User Story and exploratory testing ie test cases evolve during the iteration
 - Collaboration with Customers, Business analysts

Benefits of being Agile tester

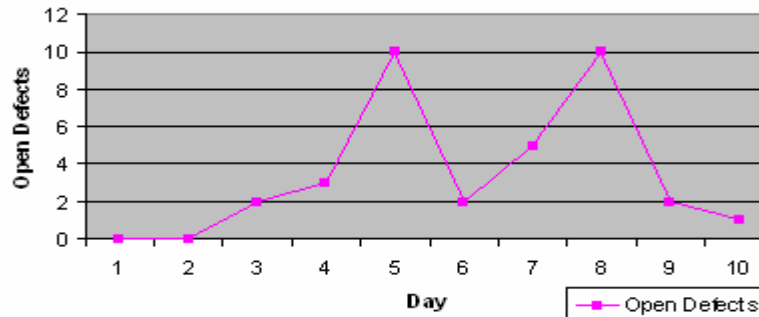
- Work together as one team towards common goal
- Less Risk of squeezed time period
- Test all the time, not just at the end

Metrics

Lean metrics which must be easy to track and meaningful

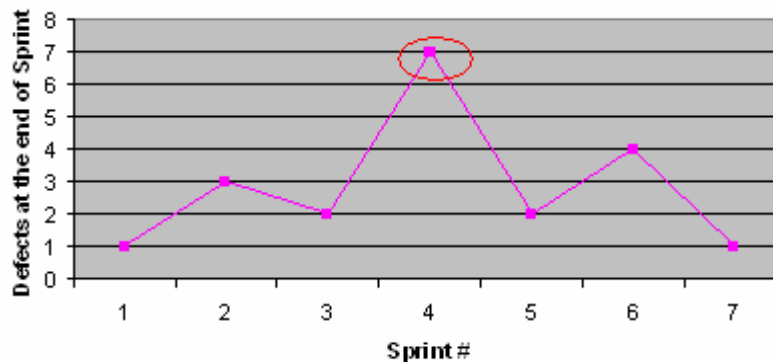
- Upper Control Limit of Open defects

Open Defects - UCL



- Sprint Acceptance Criterion

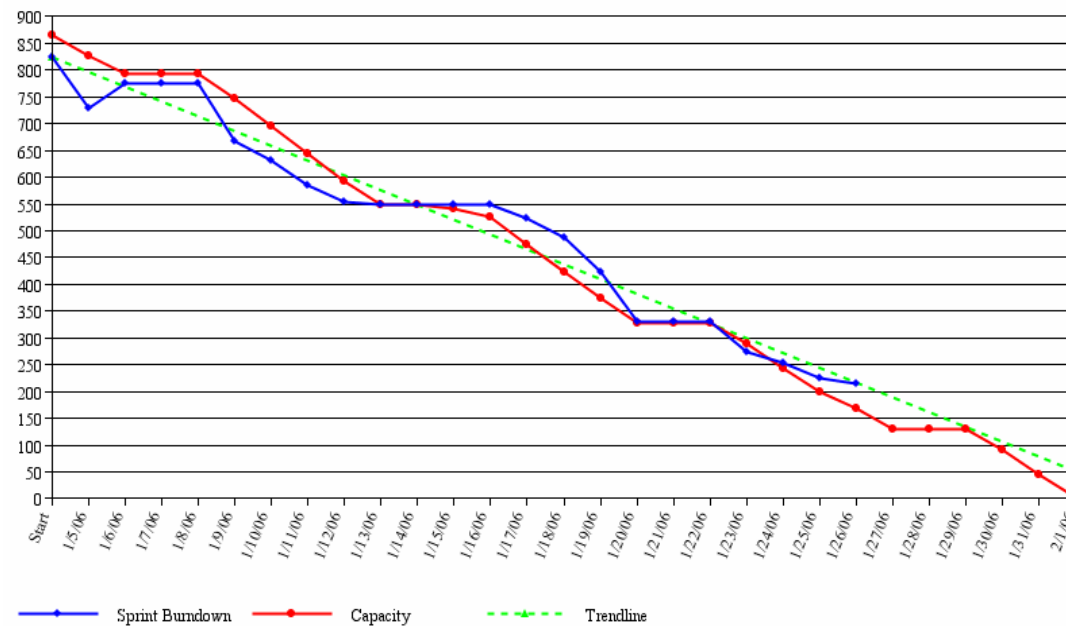
Sprint Acceptance Criterion



Metrics



- Root Cause Analysis
- Escape Analysis
- Automation coverage
- Burn down Chart



Question & Answer