Agile Enablers
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Oct 18, 2011

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Agenda

• Agile Overview
  • Why, What, Key Practices
• QA and Release Engineering
  • Role in Agile Adoption
• Agile QA
  • QAs Evolving Role

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Agile
Agile Manifesto

- **Individuals and interactions** over processes and tools
- **Working software** over comprehensive documentation
- **Customer collaboration** over contract negotiation
- **Responding to change** over following a plan

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Agile is...

(Frequent) Feedback
Traditional SW Dev

Testing at the End
Agile

- Feedback
- Tracking
- Enabling Infrastructure
- Enabling Processes

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Supporting Functions

- Build & Deploy
- DevOps
- SCM
- QA
- Retrospectives

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Agile Practices

- (Always) Working Software
- Generalizing Specialists
- Unit Testing
- Time Boxes
- Tracking (Burn Down)
- Sprint Reviews

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Agile Enablers

- End to End Features
- Measurable Goals
- Incremental Approach. (YAGNI)
- Feedback (working software)

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QA Roles

- Testing Code: Identify Impediments
- Testing Requirements: Validate Backlog
- Testing “Hard Stuff”:
  - Automate
  - Manual Exploratory Testing

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QA Removes Impediments
Verify that Code is Deployable
Discover gaps in developer testing

Measurable Goals

- Verify that Stories are Testable
- Definition of Done
- Reasonable Size
- Reasonable Scope
- Discover gaps in requirements

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QA Roles

Traditional
- Test
- Report
- Retroactive

Agile
- QA Developer Tests
- QA Requirements
- Test “hard stuff”

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Working Software

- Buildable
- Deployable
- Passes Automated Tests
- Does “something”

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Agile SCM

- Fewer Code lines
- Tests, not branches for stability
- Enables change

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Agile Build

- Continuous, not Nightly
- Build includes Test
- Automated Deploys

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Collaboration

- Dev Ops
- Cross Functional Teams
- Communication

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Summary

- Agile = Quality Everywhere, All the Time
- Define Done
- QA Early
- QA Often

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Questions