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INTRODUCING AGILE INTO THE ENTERPRISE

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TELERIK

DELIVER MORE THAN EXPECTED

*One-stop provider for .NET tools
& UI components*



www.telerik.com

WHO AM I?

- Patterns & Practices Evangelist, Telerik, Inc.
- Microsoft MVP
- MCSD, MCDBA, CSM, CSP
- Developer().Speaker().Writer()
- Lead Director, Cincinnati .NET User's Group
- Founder, Agile Conferences, Inc

AGILE MANIFESTO

We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

Individuals and interactions over processes and tools

Working software over comprehensive documentation

Customer collaboration over contract negotiation

Responding to change over following a plan

That is, while there is value in the items on the right, we value the items on the left more.

<http://agilemanifesto.org>

KEY CONCEPTS

- Communication
 - Transparency
 - Rapid Feedback Loops
- Development
 - Requirements Refinement
 - Quality

TRANSPARENCY

- Daily Standup Meeting
- Bug Triage
- Burn Down Charts
- Swim Lanes

DAILY STANDUP

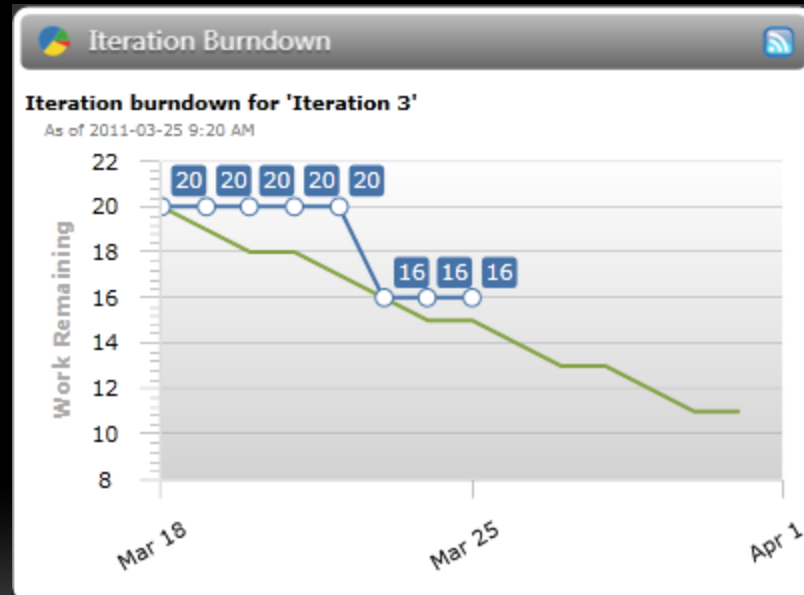
- Held every day. No EXCEPTIONS!
- Only PIGS can speak
- Three Questions
 - What did you do yesterday
 - What are you going to do today
 - What's holding you back
- If meeting is lasting longer than 15 minutes, you're talking too much!
 - Sidebars

BUG TRIAGE

- Bug triage meetings happen immediately after the Daily Standup
- Triage Team
 - Lead QA, Architect/Dev Lead, Product Owner
- Bugs are marked for either:
 - Sprint Backlog
 - Product Backlog
 - Bug
 - Change Request

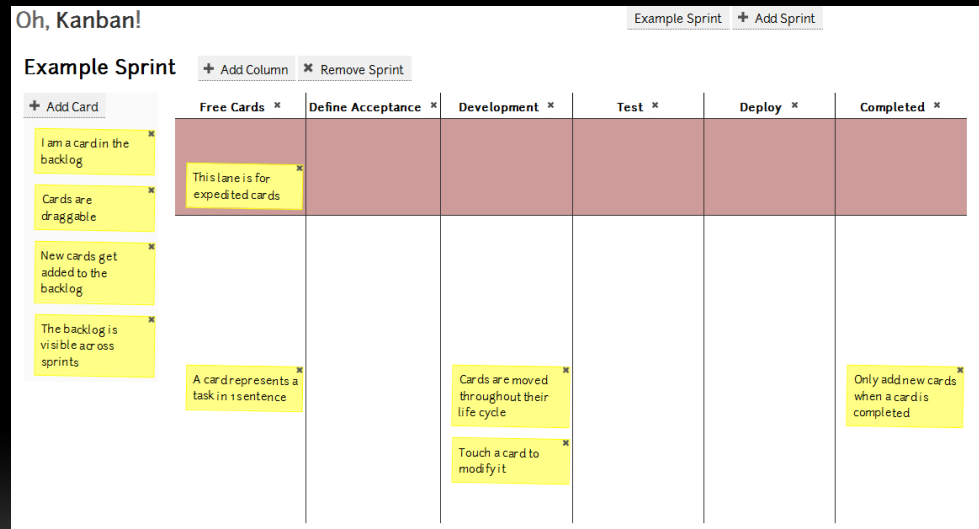
BURN DOWN CHARTS

- Display of:
 - What's been accomplished
 - What is remaining
- Updated daily
- Transparent to all
(Pigs AND Chickens)



SWIM LANES

- Instead of Burn Down Charts
- “Stolen” from Kanban
- Tasks/Features move from
 - In Queue
 - In Process
 - Ready for QA
 - Ready for UAT
 - Ready for Release



RAPID FEEDBACK LOOPS

- Software Reviews
- Users
 - Training
 - Testing

SOFTWARE REVIEW

- Demonstrate the Application
- Explain:
 - What works
 - What doesn't work

USERS

- Most users/customers don't understand software development
- Used to waiting months/years to see projects delivered
- Coaching is required
 - Give them a single Point Of Contact
 - True User Testing is a new concept

USER TESTING

- User Testing is used to validate the state of the software after every sprint.
- Users should be allowed to enter *potential* defects into the bug tracking system

DEVELOPMENT

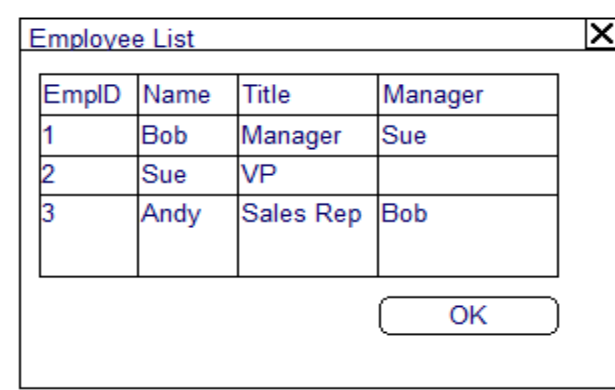
- Refining Requirements
 - Wireframes
 - User Stories
 - Context Specification
- Quality
 - Test/Behavior Driven Development
 - Pair Programming
 - Defining “Done”

REFINING REQUIREMENTS

- A good requirement is one that you can wrap a test around
 - Developer can understand and code the intent
 - QA Resource/Tester can validate the code
- Incomplete items are refined

WIREFRAMES

- Used to visually layout the User Interface
- All proposed screens
- Important to not look “finished”
- Tools:
 - <http://www.mockupscreens.com>
 - <http://www.balsamiq.com>
 - <http://tinyurl.com/mssketchflow>



EmpID	Name	Title	Manager
1	Bob	Manager	Sue
2	Sue	VP	
3	Andy	Sales Rep	Bob

OK

USER STORIES

- User Stories
 - As an [X] I Want [Y] So That [Z]¹
 - X is a role
 - Y is a feature
 - Z is the benefit

¹<http://dannorth.net/introducing-bdd>

- As an Account Manager, I want to be able to Edit a Customer's Address so that we can Effectively Communicate with them
- Includes success criteria

SUCCESS CRITERIA

- Must be testable
- Use Given/When/Then syntax
 - Given 2000 customers
 - When selecting one
 - Then the form should open in < 1 second

CONTEXT SPECIFICATION¹

- For the benefit of communicating with a customer,
When Editing a Customers Address
 - It Should Load in < 1 sec with 2000 customer records
 - It Should allow an Account Manager to edit the address

¹Behavior Driven Development (Code Magazine) - Scott Bellware

TEST/BEHAVIOR DRIVEN DEVELOPMENT

- Development needs to be Test Driven
 - QA personnel need to understand what that means
- Successful T/BDD development teams build confidence in themselves and with others
 - QA shouldn't have to test that
 - `Math.Add(2,3)` returns 5
 - QA can focus on the bigger picture
 - Making sure the requirements are met
 - Integration Testing

PAIR PROGRAMMING

- Slightly reduces productivity
- Increases code quality
- Should be polygamous
- Don't do it full-time

DEFINING “DONE”

- All (Dev, Users, QA, etc) must agree on definition of Done
 - Developer
 - Unit Tests, Documentation, Code Reviews, etc
 - QA
 - Integration Testing, Black Box Testing, etc
 - Users
 - UAT
- Will be different based on the product
 - NASA vs XBOX

CONTACT ME

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