



Dedicated to Software Quality Professionals

www.sqgne.org

WELCOME TO SEASON 23!

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casenet



Dec. 2016



WELCOME TO SEASON 23!

- All-volunteer **non-profit** with no membership dues!
- Supported entirely by our sponsors...
- Over **1,384** members on LinkedIn, **945** Constant Contact
- **196** members have joined our Meetup Group
- Monthly meetings - Sept to June on 2nd Wed of month
- **SQGNE Web site: www.sqgne.org**

LinkedIn



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Officers / Hosts / Mission

Current Officers:

- John Pustaver – Founder
- Stan Wrobel– President
- Robin Goldsmith – Vice President
- Barbara Wioncek – Treasurer
- David Sullivan– Clerk

At-large Directors:

- Candace Murphy
- Marge Shinkle
- Jim Turner

Our Gracious Hosts:

- Casenet, LLC
- Diane Kemsley

Mission

- To promote use of engineering and management techniques that lead to delivery of high quality software
- To disseminate concepts and techniques related to software quality engineering and software engineering process
- To provide a forum for discussion of concepts and techniques related to software quality engineering and the software engineering process
- To provide networking opportunities for software quality professionals

Dec. 2016



SQGENE 2016-17 Schedule

Speaker	Affiliation	Date	Topic
Bob Crews	Checkpoint Technologies	Sept 14	Shift Left Testing: What the heck does that mean?
Michael Durrant	Everquote	Oct 12	Web Automation Fundamentals
Derek Kozikowski	ZoomInfo	Nov 9	Using Selenium For Web Application Testing
Dave Todaro	Ascendle	Dec 14	Testers and Developers are Best Friends
Robin Goldsmith	Go Pro Management, Inc.	Jan 11 2017	YOU Don't Need No Stinking Test Cases
Alex Seriy	IBM	Feb 8	Data-Driven Function, Integration and End-to-End Testing in the API Economy
Joe Zec	Shire Pharmaceuticals	Mar 8	How to build quality into software in 6 easy steps
Nikhil Kaul	SmartBear	Apr 12	Mobile App Testing: What and How to Test?
Mark Holland	Applause	May 10	In Their Shoes: Understanding Your Mobile User's Point of View
SmartBear and Checkpoint Tech	SmartBear and Checkpoint Tech	June 14	Test Tool Bakeoff <i>Annual Election of Officers</i>

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Tonight's Topic

Testers and Developers are Best Friends

Speaker: Dave Todaro, Ascendle Technology

Meeting Abstract:

In successful software development organizations, QA engineers and software engineers work side-by-side in a collaborative fashion. For developers on a healthy team, QA engineers are trusted partners who make their jobs easier and makes the team's likelihood of success much higher. In this talk, software development expert and experienced developer Dave Todaro will provide perspective from "the other side of the fence", explaining how QA engineers are an indispensable part of top-tier agile teams.

You'll learn:

- Why it's critical that QA engineers and software engineers are integrated on the same team
- How QA engineers lead the way for successful development of new features by acting as the "right hand" for the product owner
- Techniques for QA engineers to speed development by writing behavior-driven development (BDD)-style test plans
- Technical tasks the QA team can perform to speed the development/testing cycle
- What information is important for developers to know when reporting bugs

Biography:

Dave has spent the last 30+ years designing and building mission-critical software applications in a variety of leadership roles. He is currently President and COO at Ascendle, a contract software engineering firm specializing in creating commercial-grade custom web and native applications and agile coaching.

Dave holds a bachelor's degree in electrical and computer engineering from the University of New Hampshire. He is former chairman of the Software Association of New Hampshire and currently volunteers his time as a member of the UNH Computer Science Industry Advisory Board and President of the Skyhaven Flying Club.

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Developers and Testers

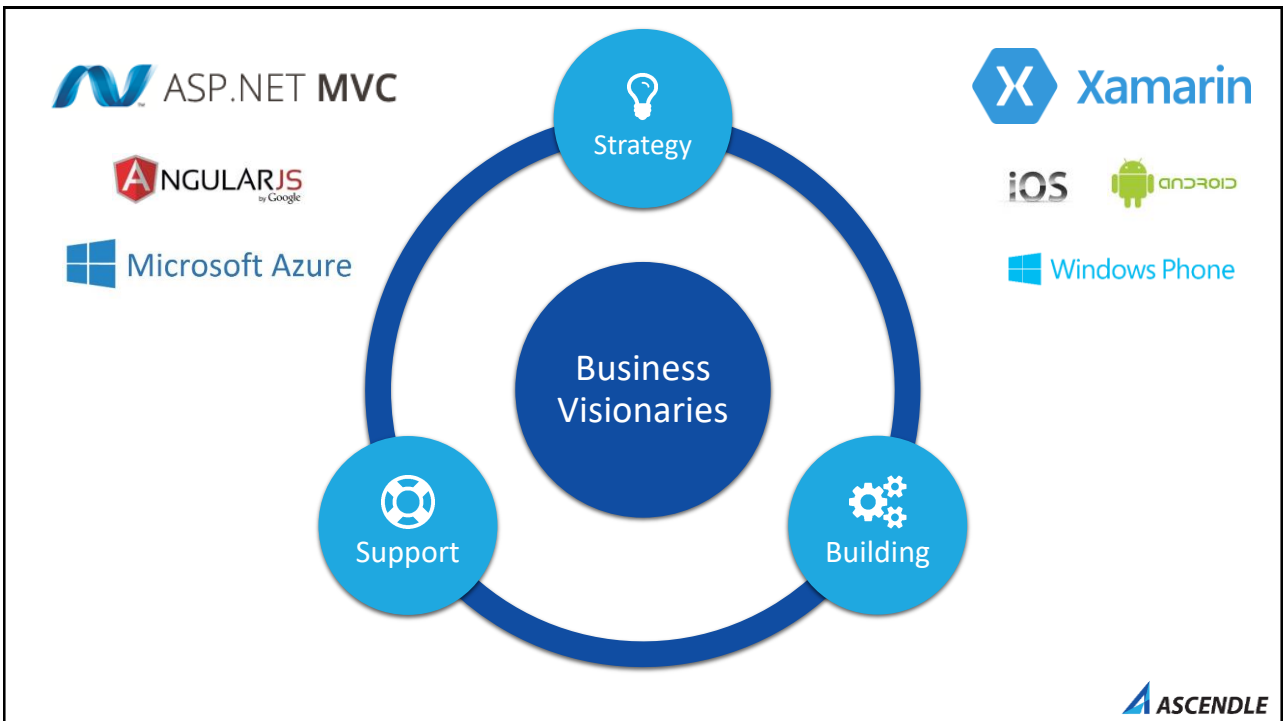
Are Best Friends!



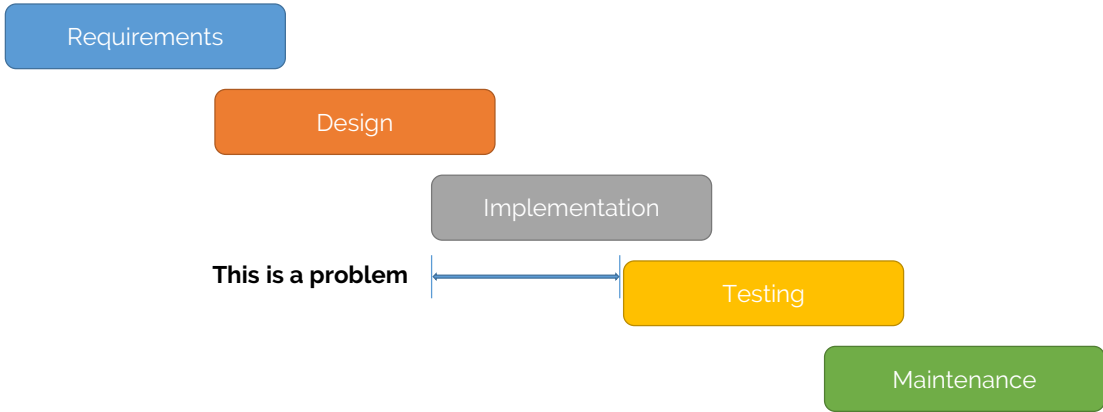
Dave Todaro

@dave_todaro 

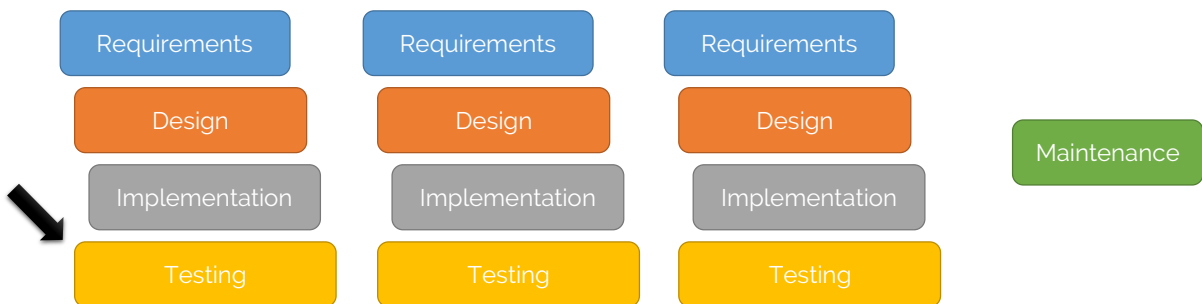
President & COO
Ascendle



The Traditional Approach



The Agile Approach



Iterative and Incremental

We're Losing the Relay Race

"The... 'relay race' approach to product development... may conflict with the goals of maximum speed and flexibility. Instead a holistic or 'rugby' approach—where a team tries to go the distance as a unit, passing the ball back and forth—may better serve today's competitive requirements."



*Hirotaka Takeuchi and Ikujiro Nonaka
"The New Product Development Game"
Harvard Business Review, January 1986*

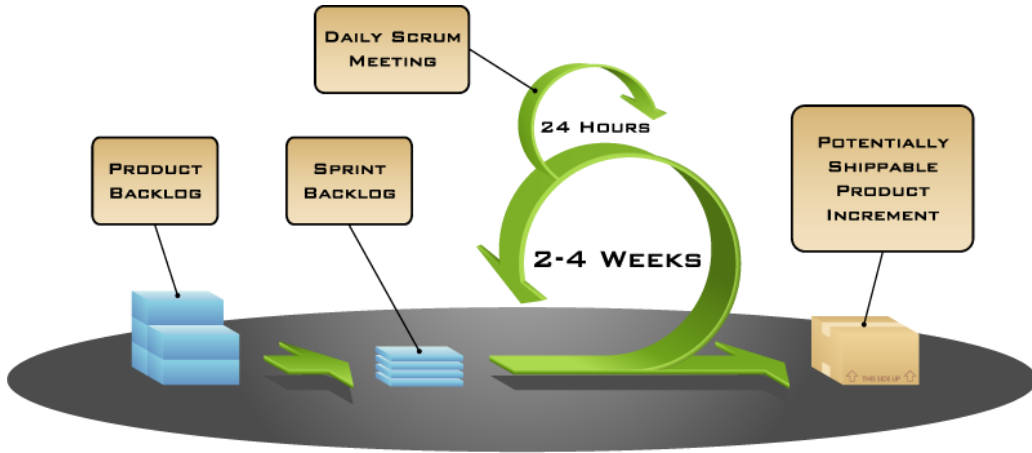


Scrum in 100 Words

- Scrum is an agile process that allows us to focus on delivering the **highest business value** in the **shortest time**.
- It allows us to rapidly and repeatedly inspect **actual working software** (every two weeks to one month).
- The **business sets the priorities**. Teams **self-organize** to determine the best way to deliver the highest priority features.
- Every two weeks to a month anyone can see real working software and **decide to release it as is** or continue to enhance it for another sprint.



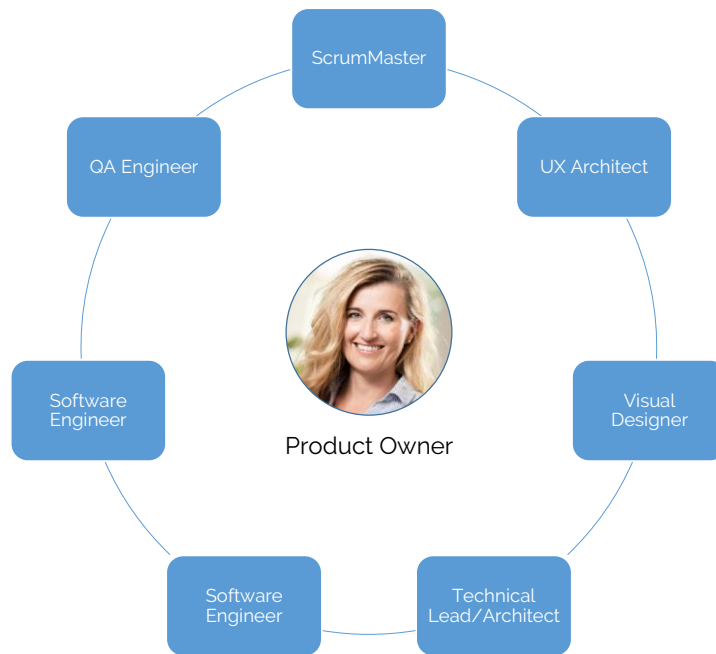
Scrum in a Nutshell



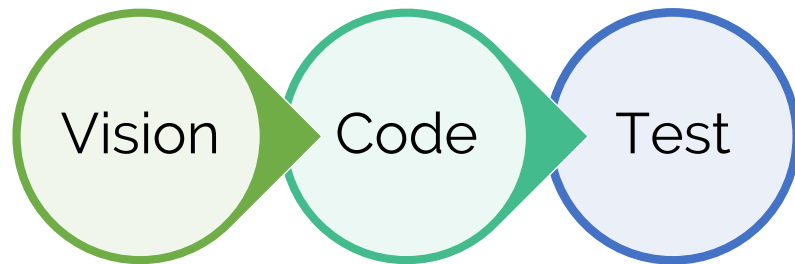
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Scrum Team



The Developer – Tester Partnership



Acceptance Tests

Questions/Discussion

Manual Testing

+

Automated Unit Tests

+

Automated UI Testing

User Story

As a shopper I want a gift registry so I can share what I want with friends and family

Acceptance Criteria

- I can create one or more gift registries
- I can add a product to a registry
- I can specify a quantity desired
- I can view my registry
- I can share my registry with friends and family
- I can remove products from my registry
- I can rename my registry



Acceptance Test

- Written **before** coding begins
- Developer can visualize outcome

Scenario 1: Create First Gift Registry

Given I'm logged in

And I haven't created any registries yet

When I click the Gift Registry option in the header

Then I see the New Gift Registry page

When I enter "John and Shelly's Wedding Registry" into the name field

And I click Save

Then I see the new registry

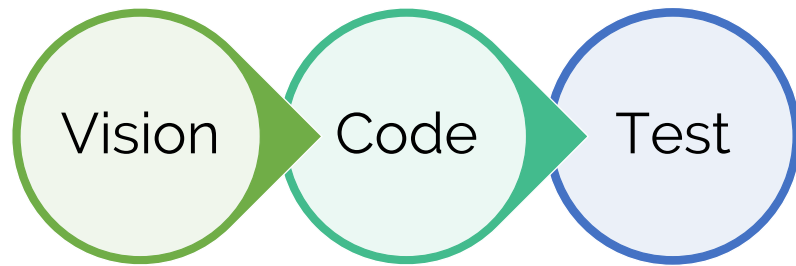
And I see the name John and Shelly's Wedding Registry

And I see a message that there are no items

And I see a message that I can add items when I'm shopping



The Developer – Tester Partnership



Acceptance Tests

Questions/Discussion

Manual Testing

+
Automated Unit Tests

+
Automated UI Testing



Bug Reports

- Use a standard format
- Include enough information for developers
- Avoid "Works on my machine!" due to miscommunication
- Make it easy to re-test



Bug Report Template

<result> when/on <action/scenario> if <condition>

Steps to Reproduce:

1. <action>
2. <action>
3. <action>

Result:

<what happened>

Expected Result:

<what you expected to happen>



Example

User is not automatically logged out when idle timeout expires if they're viewing the Settings page using Firefox

Steps to Reproduce:

1. Log into the application as Bill Smith using Firefox
2. Navigate to the Settings page
3. Wait 10 minutes for the timeout warning popup to appear
4. Allow the warning to complete its 15 second countdown

Result:

The popup is still visible, and I'm still on the Settings page.

Expected Result:

The popup goes away and I'm navigated to the Login page.

Notes:

Tested in IE, Chrome and Safari and it works fine in all of those browsers



Additional Optional Information

- **Notes** - Any notes that will help the reader understand the bug and/or find a fix.
 - "Also happens if I press ESC on the keyboard" or "Also happens on the Send Feedback page."
- **Work-around** - Description of how a user can work-around the problem.
- **Technical Notes** - Notes made by the developers when the bug is discussed
 - "Check to make sure we're awaiting the async call to the web service"
 - "We may have forgotten to add a data annotation"
- **Environment Details** - Details about the OS/device and browser
 - Include this information if the bug appears to only happen on a specific operating system, mobile device, or web browser



What Else Can Testers Do to Help?

- Create additional details to support testing
 - Flowcharts
 - Diagrams
 - Spreadsheets
- Create and maintain QA test environments
- Deploy code feature branches for testing
- Create mobile app builds
- Automate manual tests
- Clearly report bugs

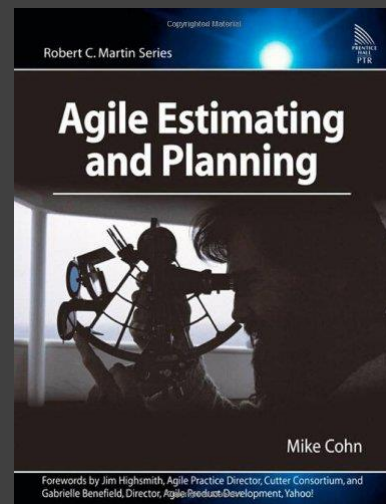


Summary

- Utilize Scrum for iterative and incremental development
- Get testers involved before, during and after coding
- Keep communication levels high
 - Acceptance tests
 - Discussions during coding
 - Standard bug format
- Leverage testers as full team members



Mike Cohn



THANK YOU!

Dave Todaro

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ascendle.com

ascendle.com/blog

