



# APPLICATION LIFECYCLE MANAGEMENT

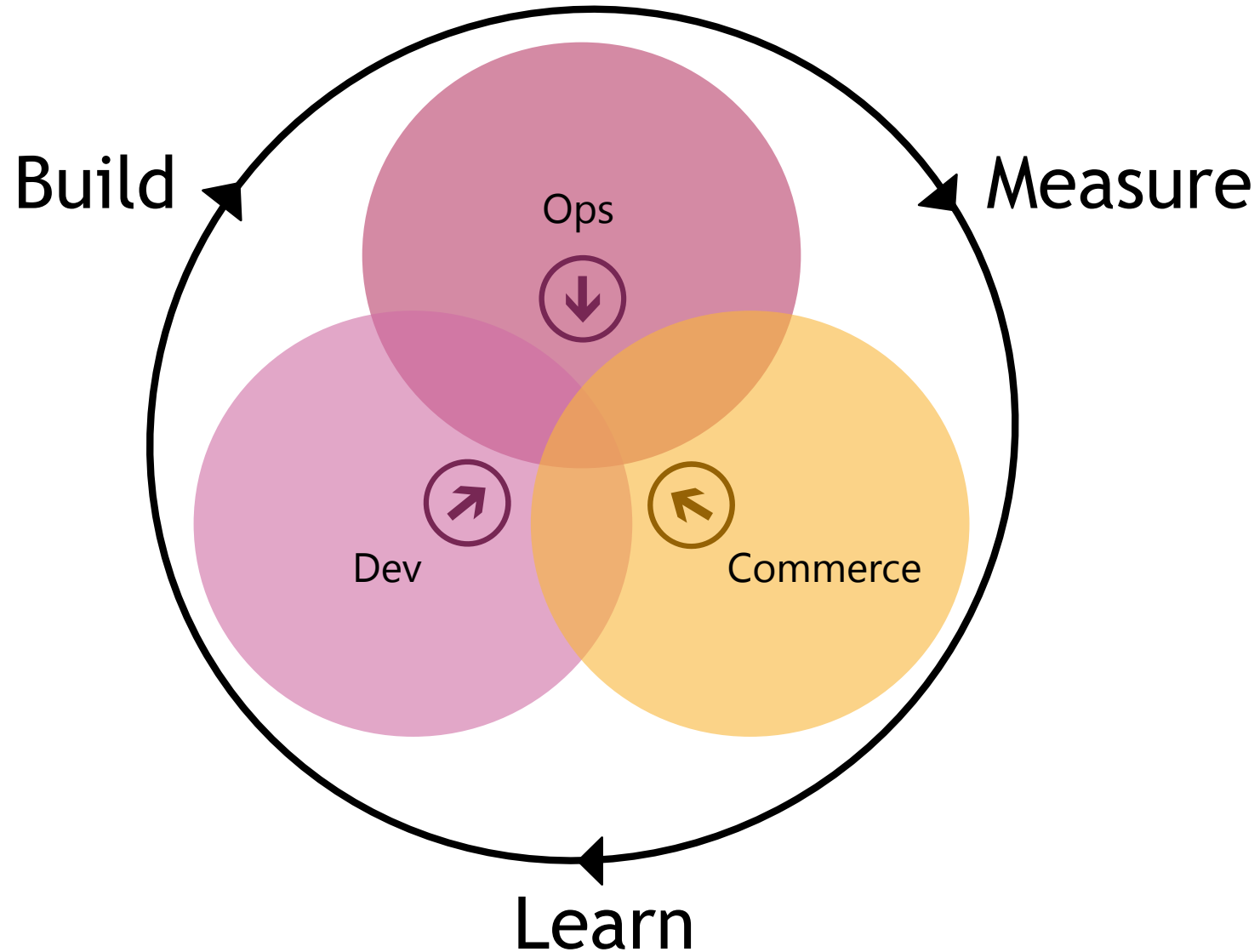
Brian Harry



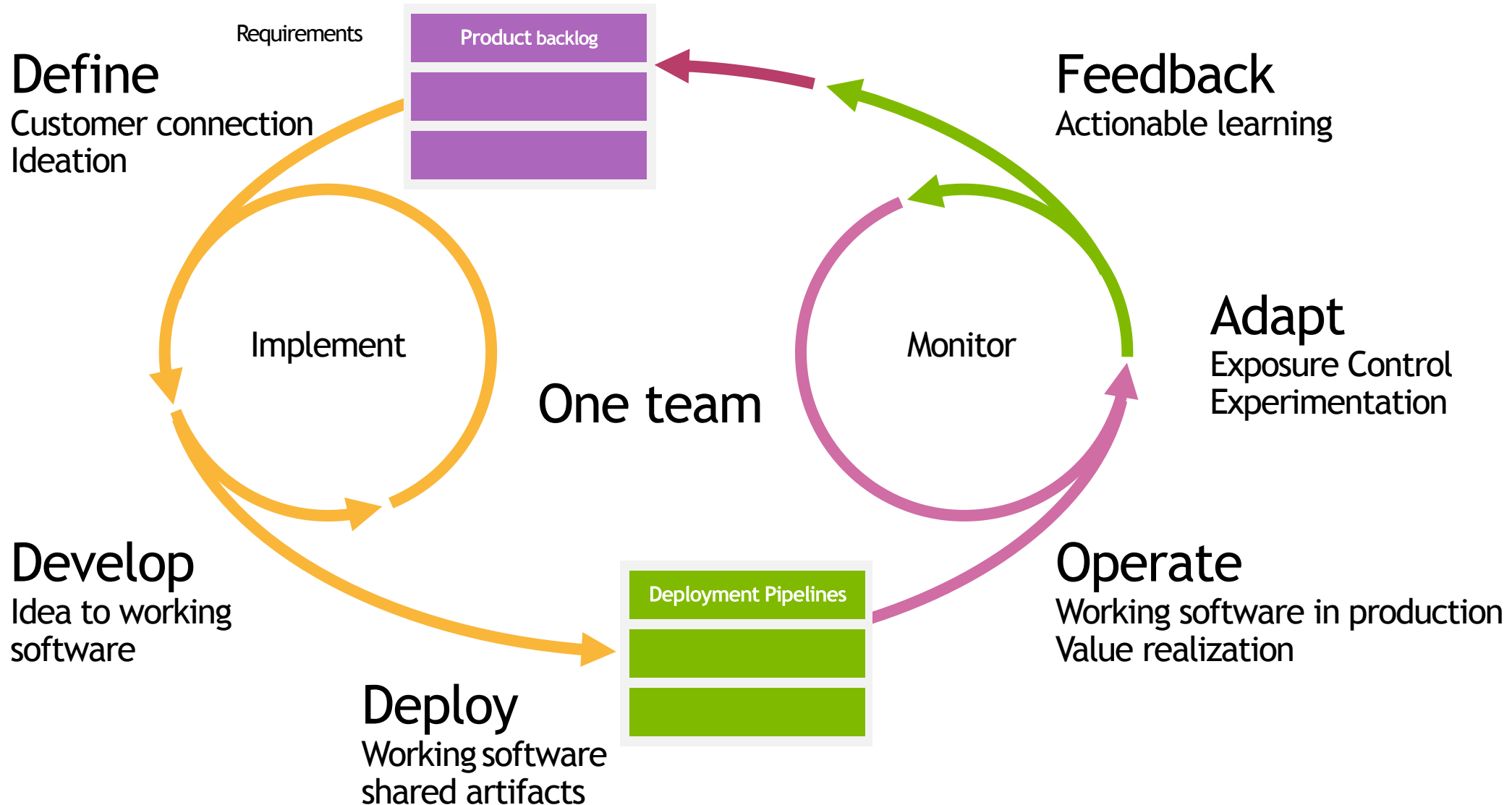
# APPLICATION LIFECYCLE TRENDS

- ◉ Change is accelerating
- ◉ Must develop/test incrementally
- ◉ Cloud deployment enables quick response
- ◉ Customer connection enables feedback
- ◉ Disciplines are converging
- ◉ Teams are distributed

# PRACTICING BUILD/MEASURE/LEARN



# THE MODERN APP LIFECYCLE



# MY FAVORITE VS/TFS 2012 ALM FEATURES

- ◉ PowerPoint Storyboarding
- ◉ Agile project management
- ◉ My Work
- ◉ Code review
- ◉ Test Explorer
- ◉ Local workspaces
- ◉ Code clone detection
- ◉ Stakeholder feedback
- ◉ Exploratory testing

# MY FAVORITE VS/TFS 2012 ALM FEATURES

## CONTINUED

- ◉ System Center integration
- ◉ Preemptive analytics integration
- ◉ Team Foundation Service

# VS 2012 UPDATE 1

## AREAS OF IMPROVEMENT

- ◉ Testing
- ◉ Agile
- ◉ Sharepoint development
- ◉ App building

# VS 2012 UPDATE 1

## TESTING IMPROVEMENTS

- ◉ Cross browser coded UI tests



# VS 2012 UPDATE 1

## TESTING IMPROVEMENTS

- ◎ Cross browser coded UI tests
- ◎ Image action log for exploratory tests

## Example of a bug with an Image Log

Iteration CTP4

### STATUS

Assigned To

State New

Reason New defect reported

### STEPS TO REPRODUCE

SYSTEM

TEST CASES

TASKS

Segoe UI

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The 9 steps you performed are listed below. To change which steps to include in the bug, click [Change steps](#)

1. Go to web page 'http://go.microsoft.com/fwlink/p/?LinkId=255141' using new browser instance
2. Perform Refresh on Browser Window
3. Click 'Volume Panel' client in the window 'Volume Panel'



4. Move 'Volume Panel' client



# VS 2012 UPDATE 1

## TESTING IMPROVEMENTS

- ◎ Cross browser coded UI tests
- ◎ Image action log for exploratory tests
- ◎ Update test cases while running them

## Test FIFA site

## STATUS

Assigned To Terje  
State Ready  
Priority 2  
Automation status Not Automated

## CLASSIFICATION

Area Metrics  
Iteration Metrics\Iteration 1

**STEPS** SUMMARY TESTED USER STORIES ALL LINKS ATTACHMENTS ASSOCIATED AUTOMATION

Insert step

Insert shared steps

Insert parameter

B

/

U

A

<div></div>		Action	Expected Result
<div></div>	1.	Open Browser	
<div></div>	2.	Go to <a href="http://www.fifa.com/">http://www.fifa.com/</a>	Open home page for FIFA
<div></div>	3.	Goto World Ranking	See list of nations ranked by points
<div></div>	4.	Select a nation	Verify that details for the nations is shown to the right of the ranking list
<div></div>	<a href="#">Click here to add a step</a>		

# VS 2012 UPDATE 1

## TESTING IMPROVEMENTS

- ◉ Cross browser coded UI tests
- ◉ Image action log for exploratory tests
- ◉ Update test cases while running them
- ◉ Pause and resume manual testing

Save and Close

Test 1 of 1

0

Pass

Ctrl+Shift+P

198\* Customer can remove items from shopping

Test suite: 7: As a customer I should be able to remove items from my shopping car cart. (Suite ID: 3)

Run

Resume

View results

Open test case

Or...

ID

Title

Tester

Paused (1)

1	40	Customer can remove items from shopping cart by clicking "X" icon.	Adam Barr
---	----	--	-----------

Expected:  
Verify link goes to Contoso cloud explorer details

- Click add to cart
- Click Remove icon (the 'X')
- Close browser

End test

# VS 2012 UPDATE 1

## TESTING IMPROVEMENTS

- ◉ Cross browser coded UI tests
- ◉ Image action log for exploratory tests
- ◉ Update test cases while running them
- ◉ Pause and resume manual testing
- ◉ VS Update support for Test Manager

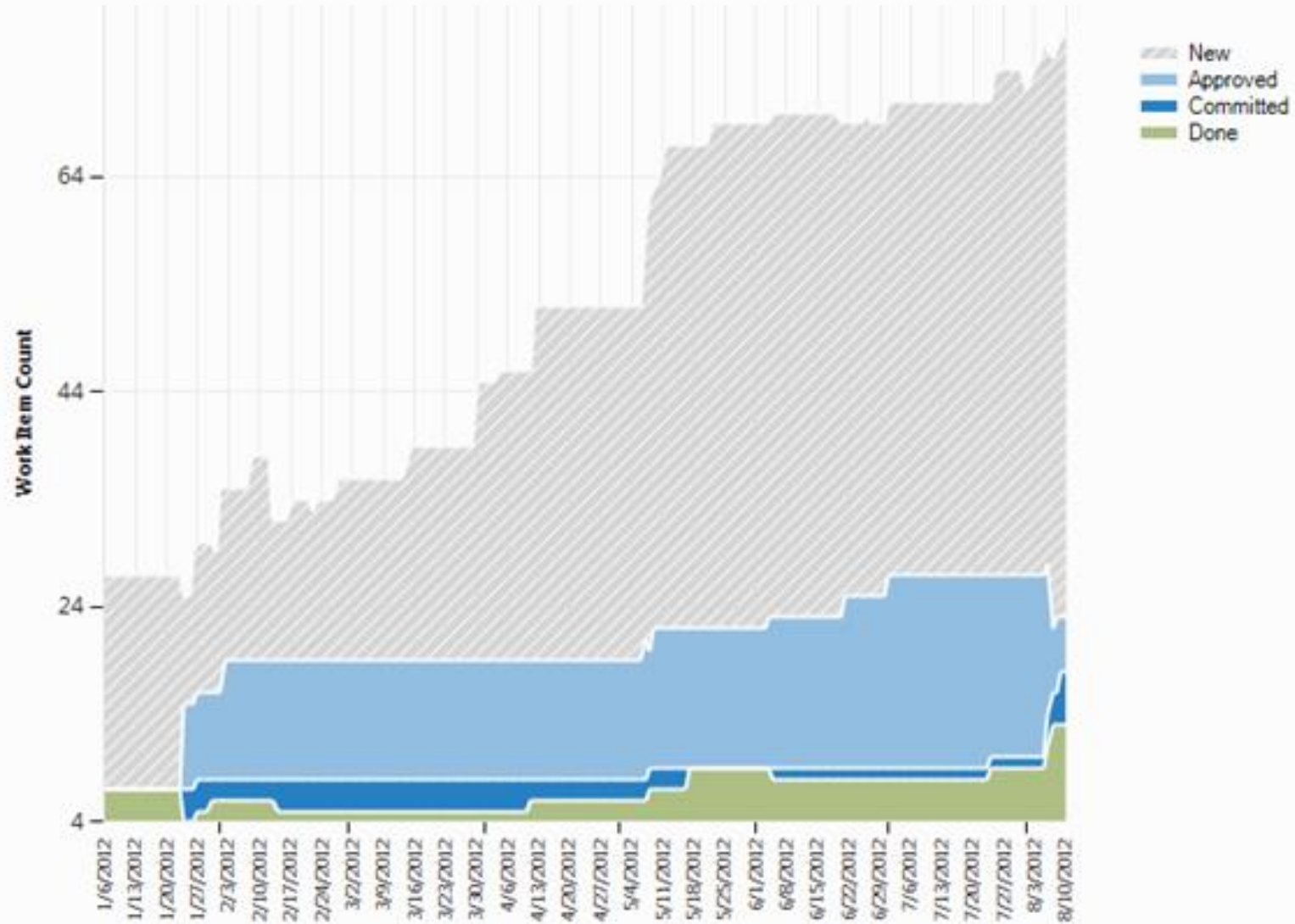
# VS 2012 UPDATE 1

## AGILE IMPROVEMENTS

- ◉ Kanban support



# CUMULATIVE FLOW



A bug

Brian Harry

# VS 2012 UPDATE 1

## AGILE IMPROVEMENTS

- ◉ Kanban support
- ◉ Drag & Drop assignment on taskboard

## Sprint 1

September 11 - September 14

4 work days remaining

contents capacity

work details on

Create Backlog Query Column Options

	Eff...	Title	State	Assigned To	Rema...
+	5	<b>Finding course rounds</b>	<b>Committed</b>		<b>12</b>
		Design the find screen	To Do	aaronbjork@h...	3
▼		Build the find logic	To Do		5
		Test the find scenario end to end	To Do		4
		Update the header to include the find functionality	To Do		
+	8	<b>Tournament setup and tracking</b>	<b>Committed</b>		<b>13</b>
		Design the tournament tables in SQL	To Do		5
		Implement the OM for the tournament tables	To Do		3
		Update the header to include the tournament selector	To Do		5

## Work

Team

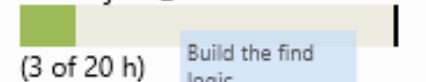


## Work By: Activity

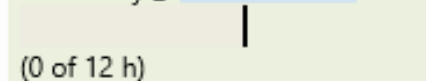
## Work By: Assigned To

Unassigned  
(22 h)

aaronbjork@hotmail.com



brianharry@hotmail.com



jamiecool@hotmail.com



# VS 2012 UPDATE 1

## AGILE IMPROVEMENTS

- ◉ Kanban support
- ◉ Drag & Drop assignment on taskboard
- ◉ Link & attachment counts on tabs

## User Story 2: Story X



### Story X

DETAILS STORYBOARDS (1) IMPLEMENTATION (3) TEST CASES **ALL LINKS (4)** ATTACHMENTS (1) HISTORY



ID Work Item... Title

Assigned

#### Child (2)

3 Task Task of Story X

4 User Story Jusitn's Story

#### Parent (1)

5 User Story Demoing Tab Content Labels

#### Storyboard (1)

Storyboard: file:\\ck

# VS 2012 UPDATE 1

## AGILE IMPROVEMENTS

- ◉ Kanban support
- ◉ Drag & Drop assignment on taskboard
- ◉ Link & attachment counts on tabs
- ◉ Lots of small usability improvements

# VS 2012 UPDATE 1

## SHAREPOINT DEVELOPMENT IMPROVEMENTS

- ◉ Unit testing emulator

# VS 2012 UPDATE 1

## SHAREPOINT DEVELOPMENT IMPROVEMENTS

- ◉ Unit testing emulator
- ◉ Functional testing with coded UI



# VS 2012 UPDATE 1

## SHAREPOINT DEVELOPMENT IMPROVEMENTS

- ◉ Unit testing emulator
- ◉ Functional testing with coded UI
- ◉ Load testing

# VS 2012 UPDATE 1

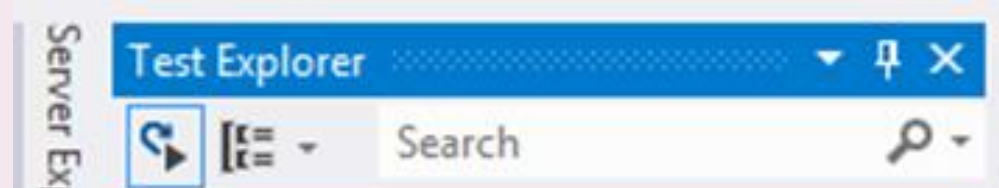
## SHAREPOINT DEVELOPMENT IMPROVEMENTS

- ◉ Unit testing emulator
- ◉ Functional testing with coded UI
- ◉ Load testing
- ◉ Intellitrace collection for Sharepoint

# VS 2012 UPDATE 1

## APP BUILDING IMPROVEMENTS

- ◉ Unit Test grouping and filtering



```
[TestClass]
public class UnitTest1
{
    [TestMethod]
    [TestCategory("CI")]
    public void TestMethod1()
    {
        var sut = new SomeClasses.VerySimpleMath();
        int result = sut.Add(2, 3);
        Assert.AreEqual(result, 5);
    }

    [TestMethod]
    [TestCategory("Developer")]
    public void TestMethod2()
    {
        var sut = new SomeClasses.VerySimpleMath();
        for (int i = -100; i < 100; i++)
        {
            // ...
        }
    }
}
```

# VS 2012 UPDATE 1

## APP BUILDING IMPROVEMENTS

- ◉ Unit Test grouping and filtering
- ◉ C++ Windows store app unit testing

# VS 2012 UPDATE 1

## APP BUILDING IMPROVEMENTS

- ⦿ Unit Test grouping and filtering
- ⦿ C++ Windows store app unit testing
- ⦿ C++ support for targeting Windows XP

# VS 2012 UPDATE 1

## APP BUILDING IMPROVEMENTS

- ◉ Unit Test grouping and filtering
- ◉ C++ Windows store app unit testing
- ◉ C++ support for targeting Windows XP
- ◉ Native ARM Dump debugging

# VS 2012 UPDATE 1

## APP BUILDING IMPROVEMENTS

- ◉ Unit Test grouping and filtering
- ◉ C++ Windows store app unit testing
- ◉ C++ support for targeting Windows XP
- ◉ Native ARM Dump debugging
- ◉ Mixed managed/native Windows store app debugging



# VS 2012 UPDATE 1

## APP BUILDING IMPROVEMENTS

- ◉ Unit Test grouping and filtering
- ◉ C++ Windows store app unit testing
- ◉ C++ support for targeting Windows XP
- ◉ Native ARM Dump debugging
- ◉ Mixed managed/native Windows store app debugging
- ◉ JavaScript memory profiling

# VS 2012 UPDATE 1

## APP BUILDING IMPROVEMENTS

- ◉ Unit Test grouping and filtering
- ◉ C++ Windows store app unit testing
- ◉ C++ support for targeting Windows XP
- ◉ Native ARM Dump debugging
- ◉ Mixed managed/native Windows store app debugging
- ◉ JavaScript memory profiling
- ◉ CodeMap

```
//
// GET: /Account/Login

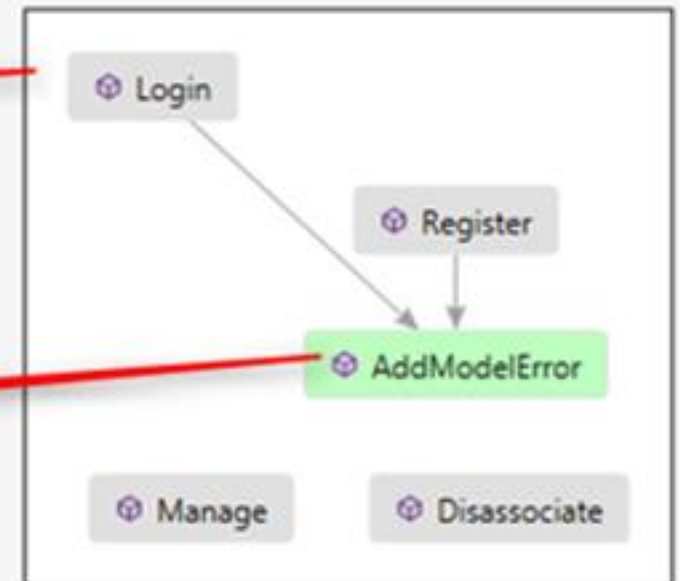
[AllowAnonymous]
public ActionResult Login(string returnUrl)
{
    ViewBag.ReturnUrl = returnUrl;
    return View();
}

//
// POST: /Account/Login

[HttpPost]
[AllowAnonymous]
[ValidateAntiForgeryToken]
public ActionResult Login(LoginModel model, string returnUrl)
{
    if (ModelState.IsValid && WebSecurity.Login(model.UserName,
    {
        return RedirectToLocal(returnUrl);
    }

    // If we got this far, something failed, redisplay form
    ModelState.AddModelError("", "The user name or password provided is incorrect.");
    return View(model);
}

//
```



# VS UPDATE 2 IMPROVEMENTS

- ◉ Web based manual testing
- ◉ Create unit test project automatically
- ◉ Code coverage for manual testing of desktop apps
- ◉ Test plan cloning
- ◉ Simple test process customization
- ◉ Unit testing for Windows phone apps

# VS UPDATE 2 IMPROVEMENTS CONTINUED

- ◉ Kanban state customization
- ◉ Lighter weight work item tracking
- ◉ Send work items in email from web access
- ◉ Server build drops
- ◉ Additional Git integration

# FUTURE DIRECTIONS

- ◉ Release Management
- ◉ Analytics
- ◉ A/B Testing
- ◉ Lightweight \*

GET STARTED TODAY

## Visual Studio 2012

[www.visualstudio.com](http://www.visualstudio.com)

## Continuous Value

Team Foundation Server Power Tools, Productivity Power Tools,  
Visual Studio 2012 Update 1

## Team Foundation Service

<http://tfs.visualstudio.com>

