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Visual Studio Team System

测试深入探讨

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平台及开发技术部

Visual Studio Team System技术专家

微软（中国）有限公司

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本次课程内容包括

- 1. 统观全局
- 2. 测试部分
- 3. 分析工具
- 4. 集成测试
- 5. 错误跟踪
- 6. 团队构建
- 7. 报表服务
- 8. 总结

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收听本次课程需具备的条件

- 项目经理
- IT技术决策者
- 开发和测试人员

Level 300

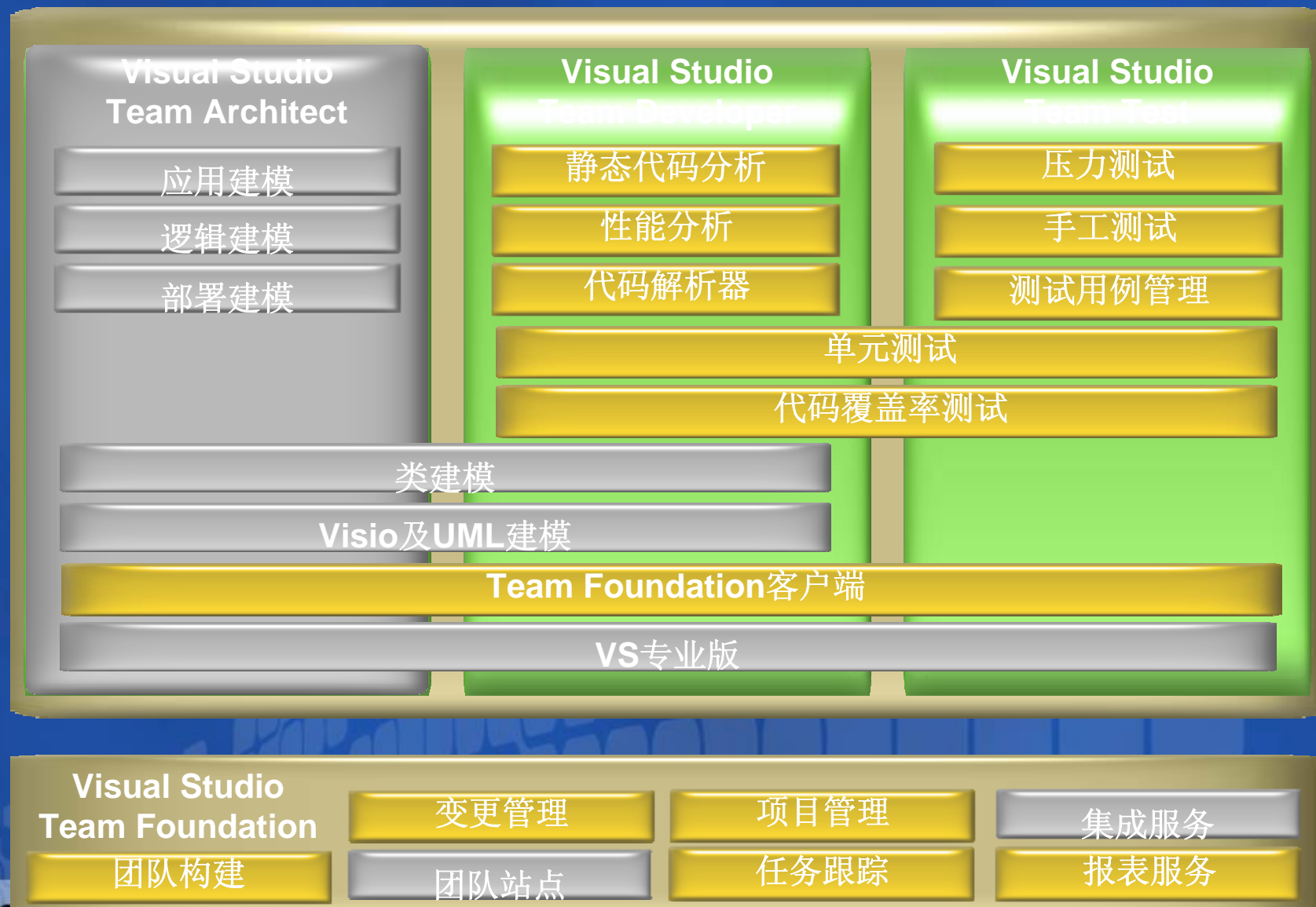
1. 统观全局

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开发流程及组织结构

VSIP合作伙伴



MSDN Webcasts

2.1 测试部分：单元测试

- 利用VSTS进行有效的单元测试
 - 粒度
 - 保存
 - 部署
 - 测试私有成员
 - 代码覆盖率
- 数据驱动的单元测试
- 对ASP.NET应用的支持
- 利用原有的NUnit单元测试

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DEMO

单元测试

2.2 测试部分：手工测试

Select Result

☐ Pass

☐ Fail

Comments:

To the Test Author

This template provides a structure you can use to create a manual test.

What is a manual test?

A manual test is a description of test steps that a tester performs. Typically, manual tests are used when the test steps are difficult or time-consuming to automate, or cannot be automated—for example, to determine a component's behavior when network connectivity is lost. Visual Studio Team Test treats manual tests the same as automated tests. For example, it displays manual tests in the Team Test windows. It also tracks manual test results the same way it tracks automated test results, and displays them in the Test Results window.

Using this template

Modify the "Test Title" text to provide a two- to three-word description of your test. Under the "Test Details" heading, describe what this

Test Results

DEV@VSTSB2 2005-09-01 22:06:59

Group By [None]

[All Columns]

Test Run In Progress, 0/1 passed; Item(s) checked: 0

Result	Test Name	Project	Error Message
Pending	CompanyDirectoryWeb: ManualTests		

Error ListOutputPending CheckinTest ResultsSettings and ConstraintsFind Results 1

2.3 测试部分: Web测试

The screenshot displays the Microsoft Test Manager interface. At the top, the title bar shows the test name 'CompanyDirect...est [10:12 PM]' and several tabs: 'CompanyDirect...eTest.webtest', 'UnitTest1.vb', 'Test Manager', and 'Employee1Test.cs'. Below the title bar, a green checkmark icon indicates 'Test completed'. A status bar provides details: 'Browser: Internet Explorer 6.0', 'Network: LAN', and a link 'Click here to run again'.

A table lists the test requests and their results:

Request	Http Status	Response Time	Size
✓ http://localhost:3374/CompanyDirectoryWebSite/	OK	0.79 sec	731 Bytes
✓ http://localhost:3374/CompanyDirectoryWebSite/default.aspx	OK	0.48 sec	745 Bytes

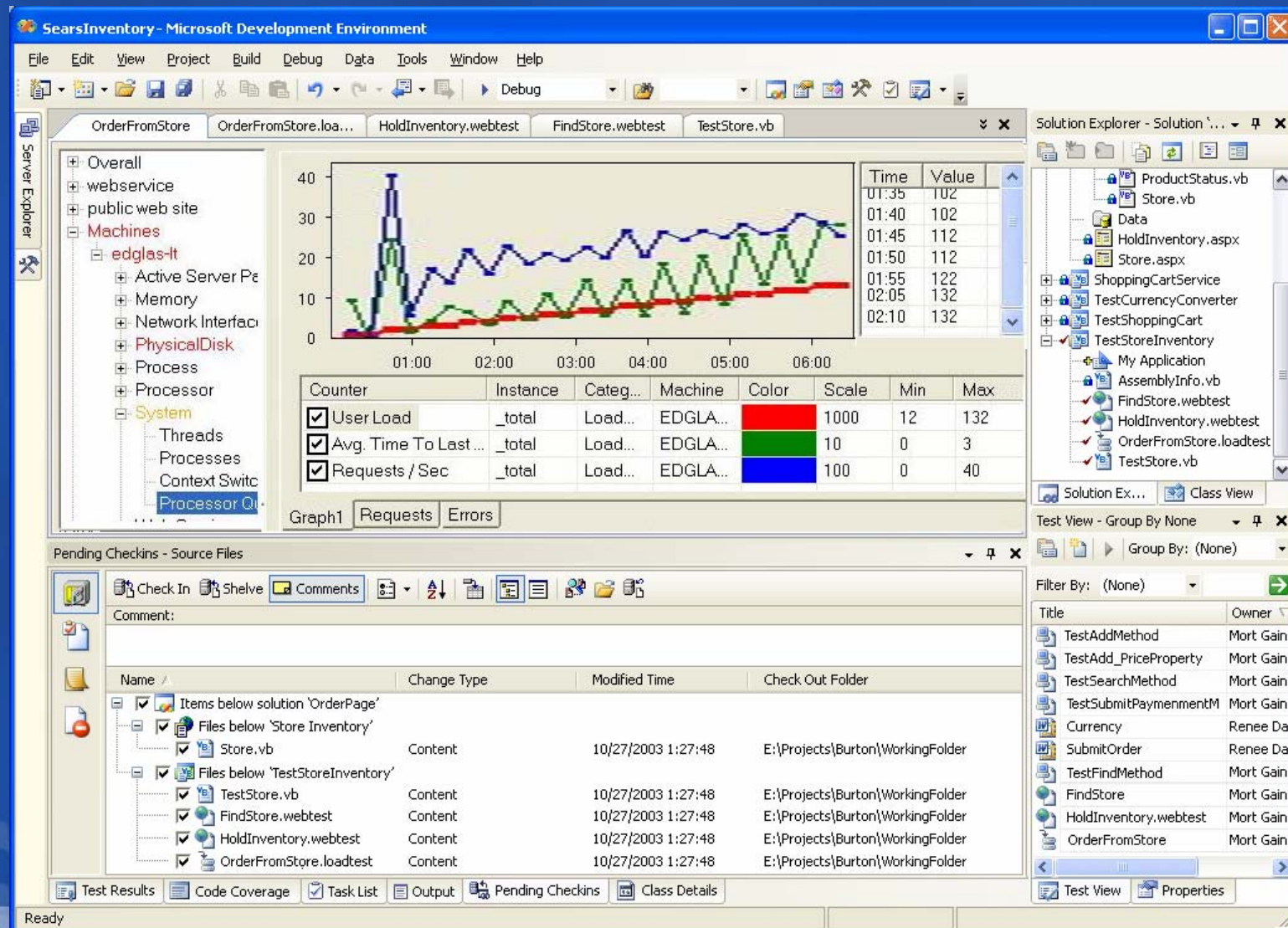
Below the table, there are tabs for 'Web Browser', 'Request', 'Response', and 'Details'. The 'Web Browser' tab is active, showing a web form with the text 'Enter Last Name' followed by an input field containing 'smith' and a 'Find' button.

At the bottom, the 'Test Results' section shows the test execution details: 'DEV@VST5B2 2005-09-01 22:12:09'. It also includes a 'Group By' dropdown set to '[None]' and a '[All Columns]' button.

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2.4 测试部分：压力测试



msdn

start

Microsoft Developme...

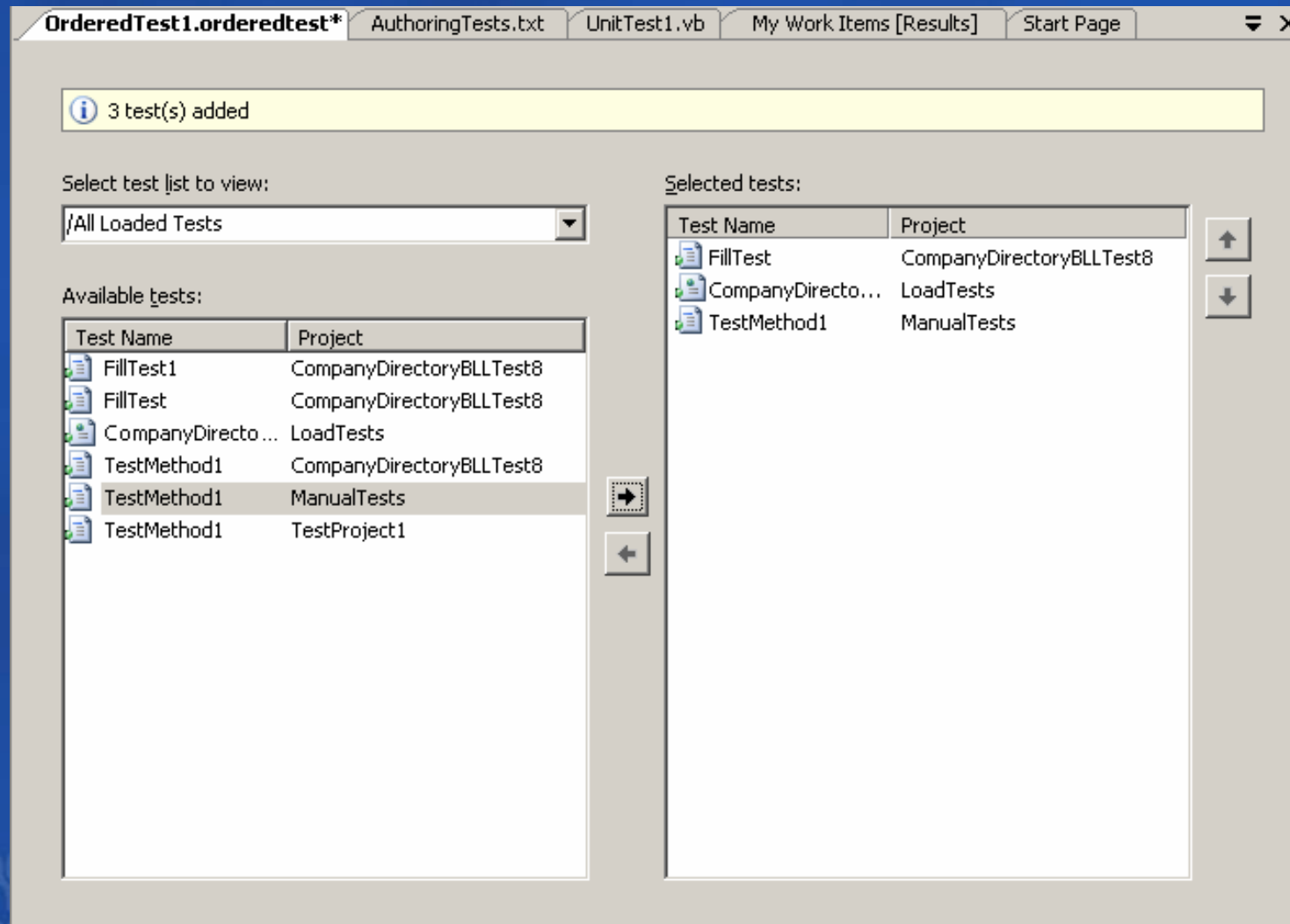
2:54 PM

bcasts

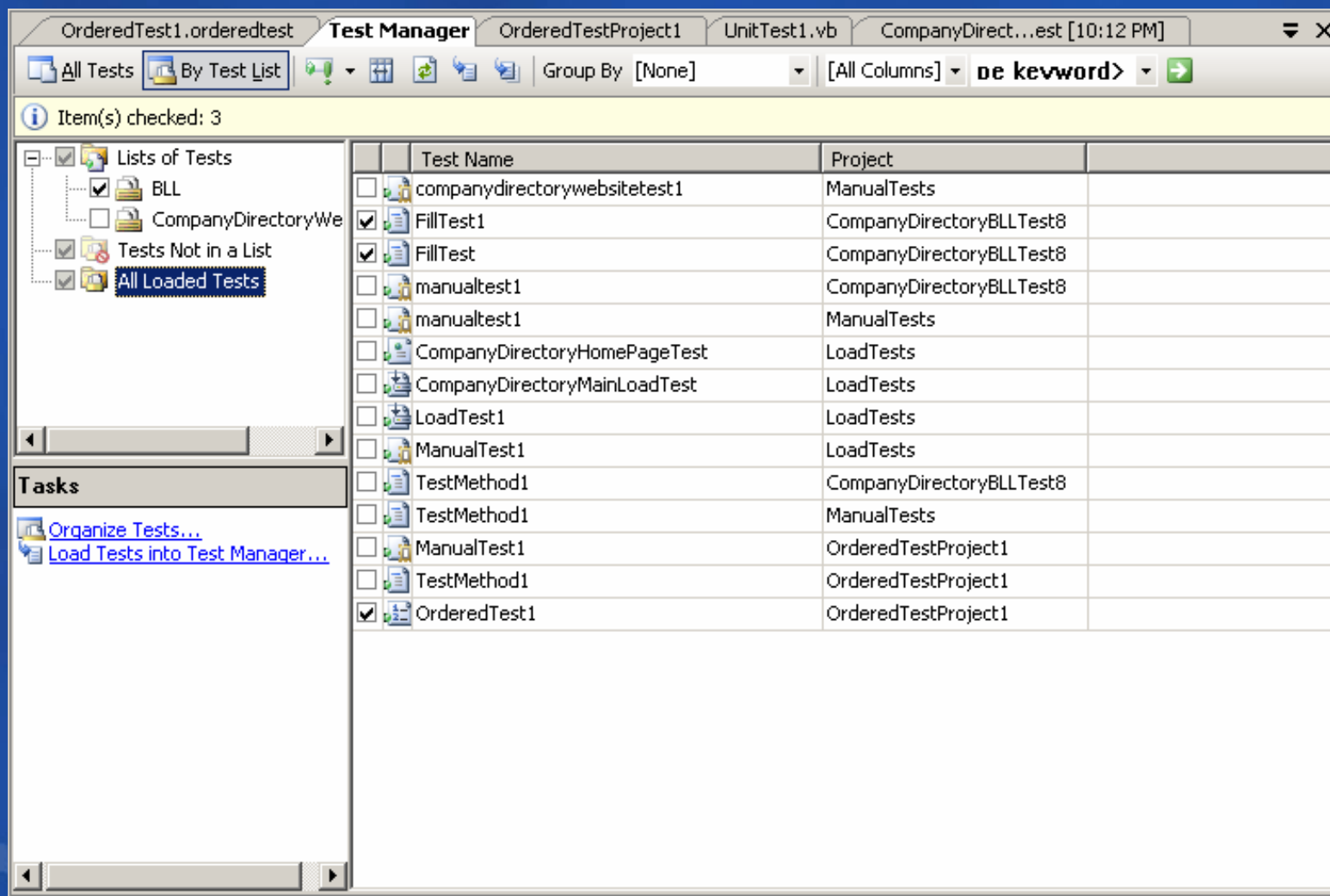
2.5 测试部分: Generic测试

- 可扩展性
 - 第三方测试工具
 - 自定义的测试工具
- 返回值
 - 返回码, 错误级别
 - 返回XML文件

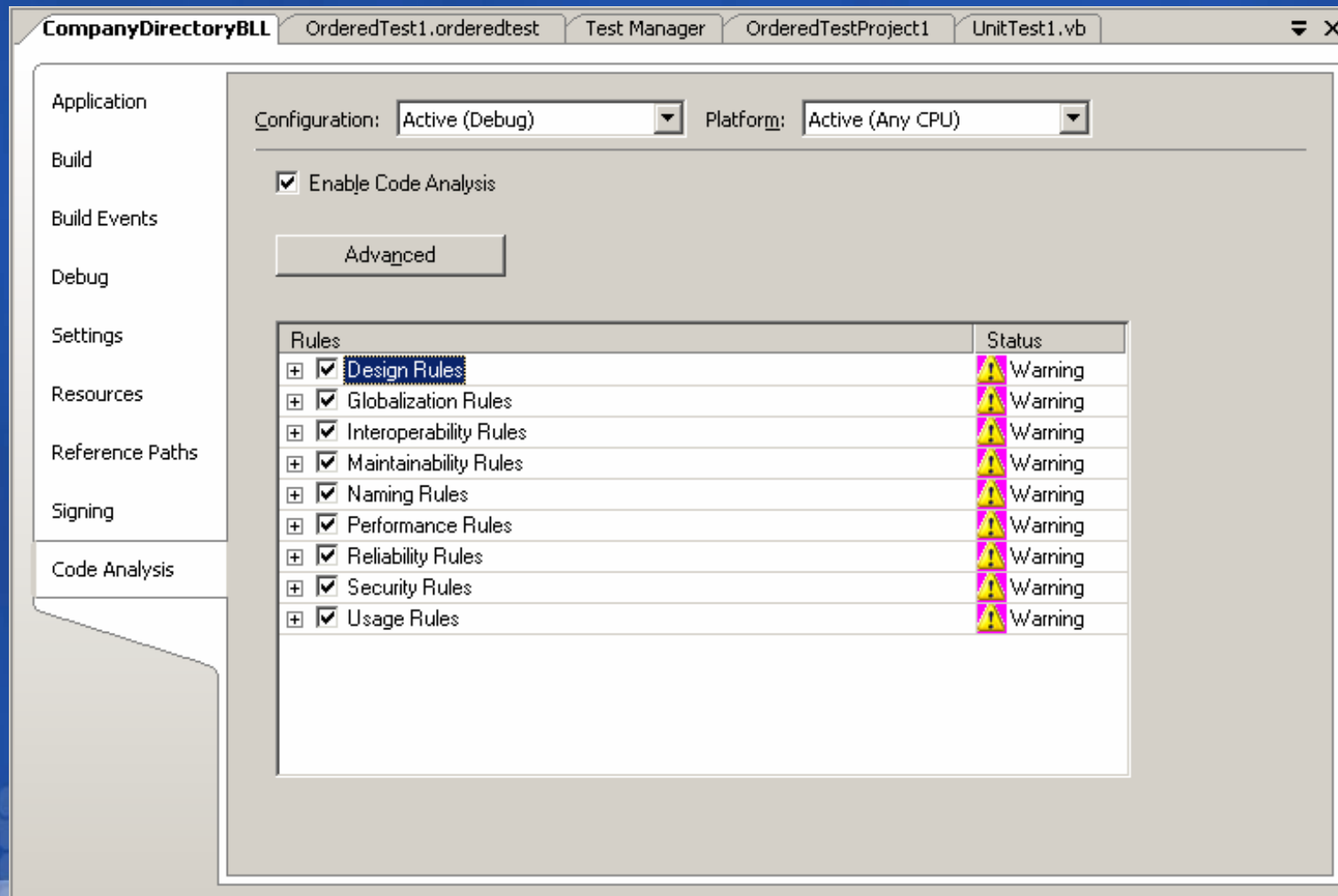
2.6 测试部分: Ordered测试



2.7 测试部分：测试用例管理



3.1 分析工具：静态代码分析



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3.2 分析工具：性能分析

The screenshot displays the Microsoft Development Environment (MDE) interface for performance analysis. The main window, titled 'StoreInventory.vsp', shows a table of performance data. The table has four columns: 'Function Name', 'Samples (function)', and 'Samples (function + children)'. The data is organized into a tree structure on the left, showing various DLLs and their methods. The 'Performance Explorer' pane on the right shows the 'Performance Session' tree, with 'StoreInventory.vsp' selected. The 'Test View' pane at the bottom right shows a list of test methods and their owners.

Function Name	Samples (function)	Samples (function + children)
StoreInventory.exe		
StoreInventoryLib.DLL		
Description()	6334	32391
MethodName()	6500	17421
Enabled()	9169	14771
AddZipPlus4()	220193	201231
PerUser()	1478	19264
StoreInventoryEvents.DLL		
RemoveS()	6962	2082
SubscriptionID()	4464	26777
SubscriptionName()	5705	13966
PublisherID()	9145	27624
EventClassID()	3281	19669
StoreInventoryEventsText.DLL		
MethodName()	9961	24648
SubscriberCLSID()	491	15281
SubscriberInterface()	2995	21881
PerUser()	1942	2634
OwnerSID()	4827	2154
StoreInventoryNet.DLL		
Enabled()	2391	28692
Description()	4604	16282
MachineName()	3902	16279
GetPublisherProperty()	153	12044
PutPublisherProperty()	292	9314
StoreInventoryPubSub.DLL		
System.DLL		
System.Web.DLL		
System.Web.Services.DLL		
Microsoft.DLL		

Performance Explorer

Sampling

Performance Session

Binaries

Reports

StoreInventory.vsp

Test View - Group By None

Group By: (None)

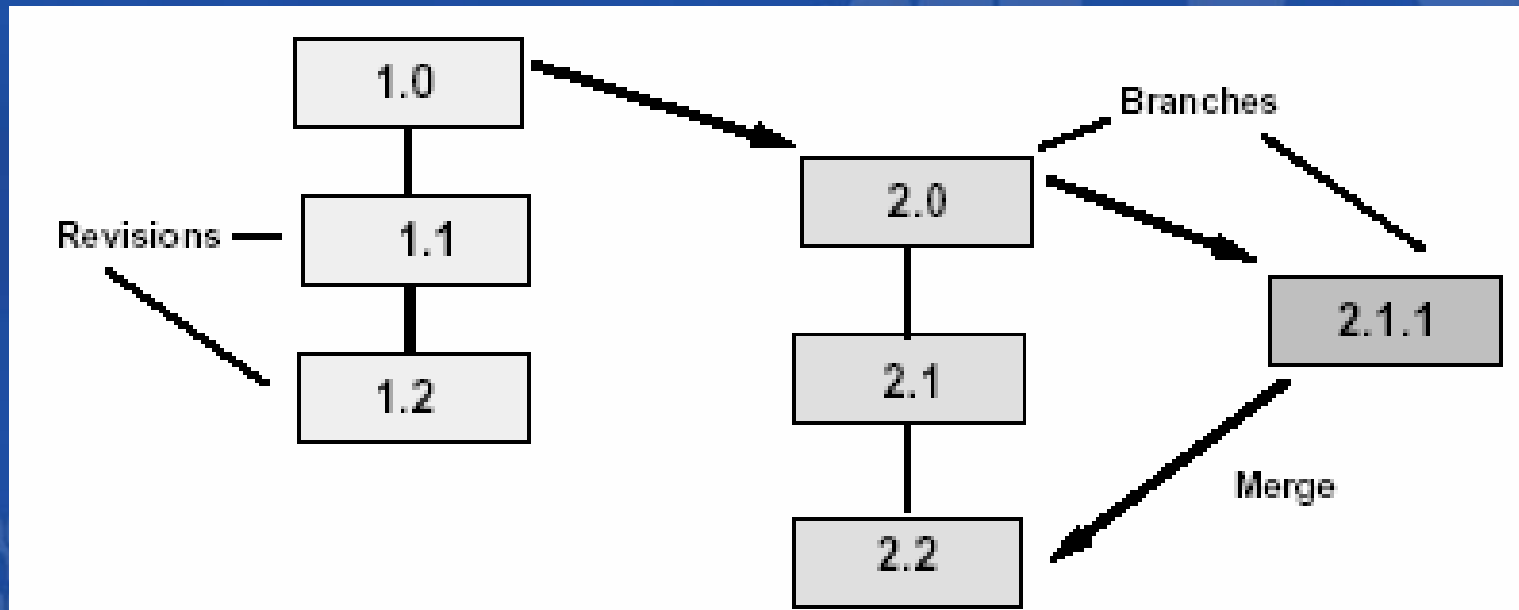
Filter By: (None)

Title	Owner
TestAddMethod	Mort Gain
TestAdd_PriceProperty	Mort Gain
TestSearchMethod	Mort Gain
TestSubmitPaymentmentM	Mort Gain
Currency	Renee Da
SubmitOrder	Renee Da
TestFindMethod	Mort Gain
FindStore	Mort Gain
HoldInventory	Mort Gain
OrderFromStore	Mort Gain

4. 集成测试

- 支持企业级应用的Source Control

- 打标签
- 分支 与 合并
- 挂起

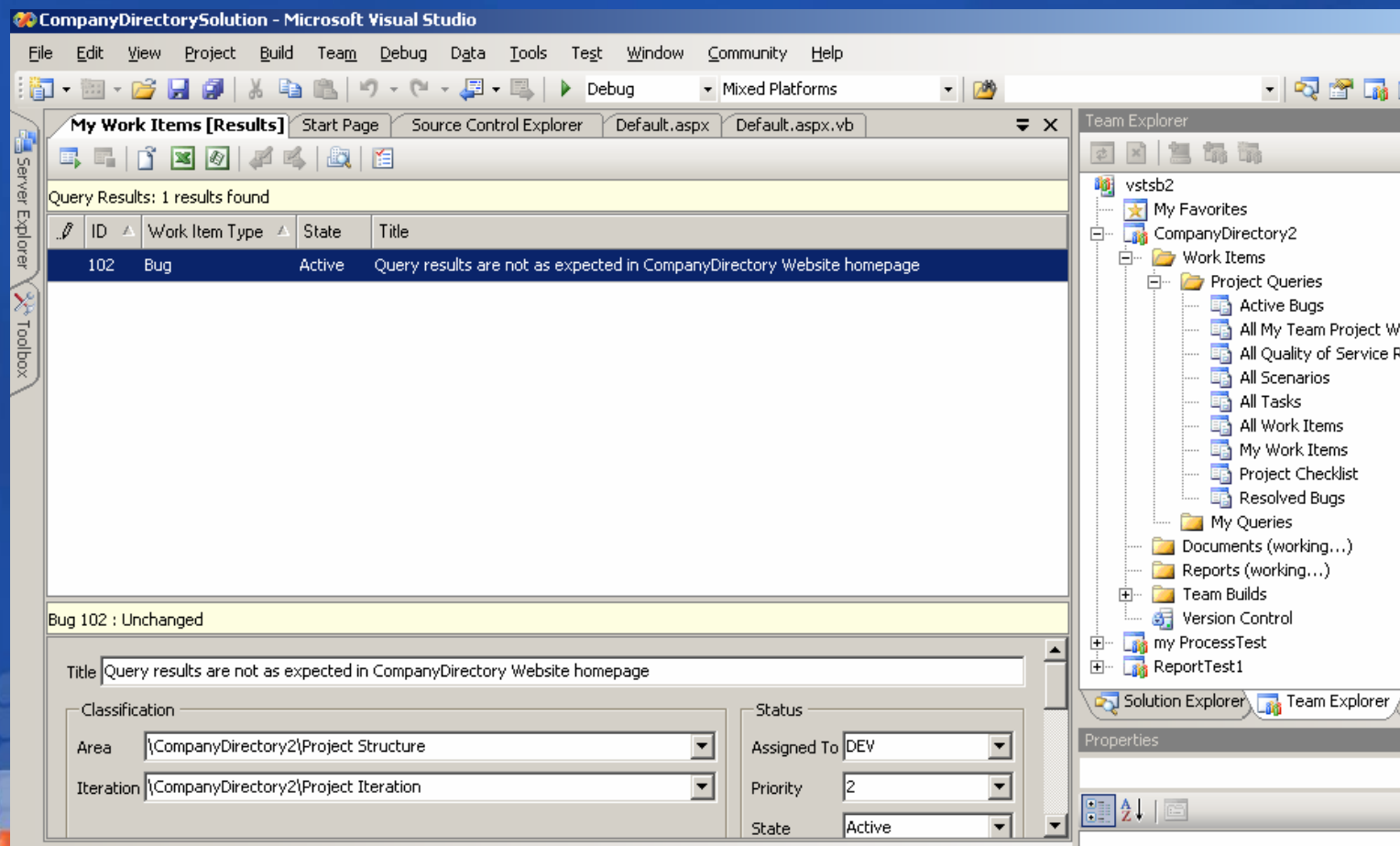


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5. Bug跟踪

- 报告Bug
- 查找Bug



6. 团队构建

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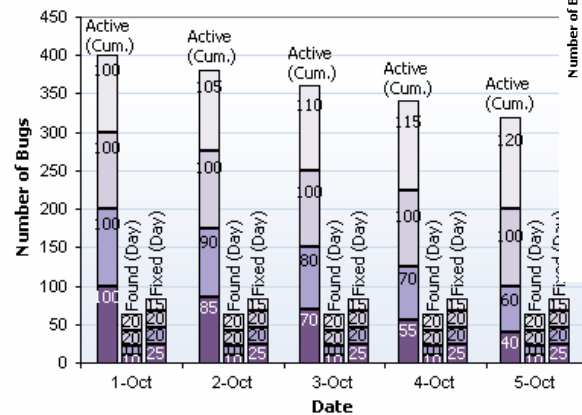
The screenshot displays the Microsoft Development Environment (MDE) interface. On the left, the Portfolio Explorer shows a tree structure with folders like Adventure Works, Cross Projects, My Favorites, Tour Package Services v2.0, and Tour Package Services v2.1. Under Tour Package Services v2.1, there are sub-folders for Work Item Queries, Public Queries, Private Queries, Documents, Reports, and Source Code. The Public Builds folder is selected. The main window, titled 'Public Builds Summary', shows a table of build data. The table has columns for Build ID, Build Definition, Started, Completed, Build Status, and Drop Locations (Production, Debug, Test). The table lists several builds, including TP5v2.1.0.7, which is 'Ready for Test'.

Build ID	Build Definition	Started	Completed	Build Status	Drop Locations		
					Production	Debug	Test
TP5v2.1.0.7	Nightly	10/9/03 11:10 PM	10/9/03 11:21 PM	Ready for Test	ProdLab01	Dbg01	Test01
TP5v2.1.0.6	Nightly	10/8/03 11:10 PM	10/8/03 11:21 PM	Completed	ProdLab01	Dbg01	Test02
TP5v2.1.0.5	Nightly	10/7/03 11:10 PM	10/7/03 11:27 PM	Completed	ProdLab01	Dbg01	Test02
TP5v2.1.0.4	Nightly	10/6/03 11:10 PM	10/6/03 11:24 PM	Completed	ProdLab01	Dbg01	Test02
TP5v2.1.0.3	Nightly	10/5/03 11:10 PM	10/5/03 11:24 PM	Completed	ProdLab01	Dbg01	Test02
TP5v2.1.0.2	Weekly	10/4/03 10:00 AM	10/4/03 10:27 AM	Completed	ProdLab02	Dbg04	TestW01
TP5v2.1.0.1	Nightly	10/3/03 11:10 PM	10/3/03 11:28 PM	Completed	ProdLab01	Dbg01	Test02

7. 报表服务

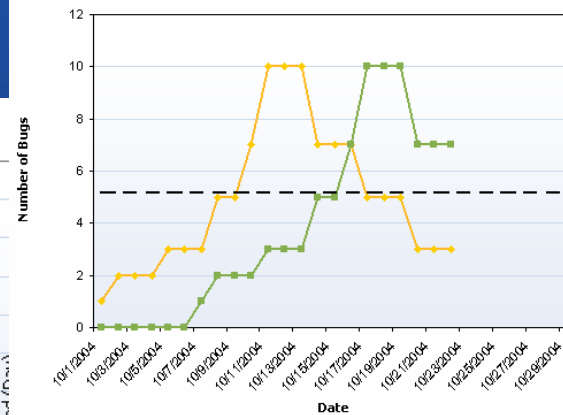
1

Are we finding and triaging the right bugs?
[View report documentation](#)



2

How productive is the team?
[View report documentation](#)

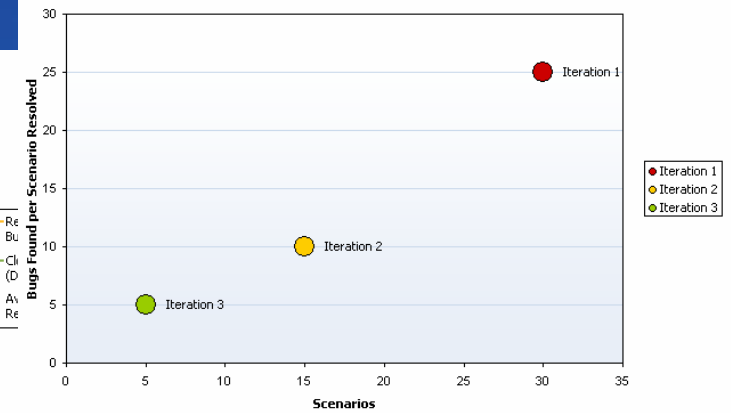


3

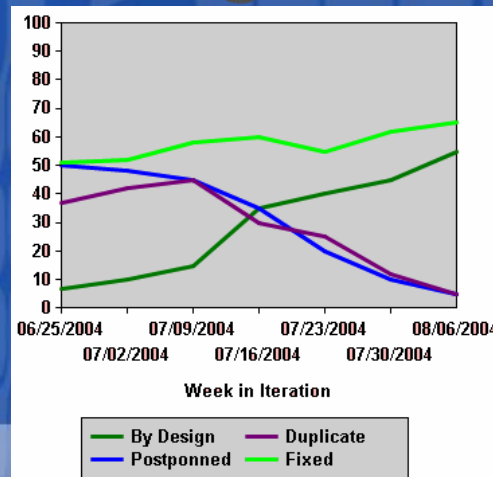
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How fast can we go before the quality suffers?
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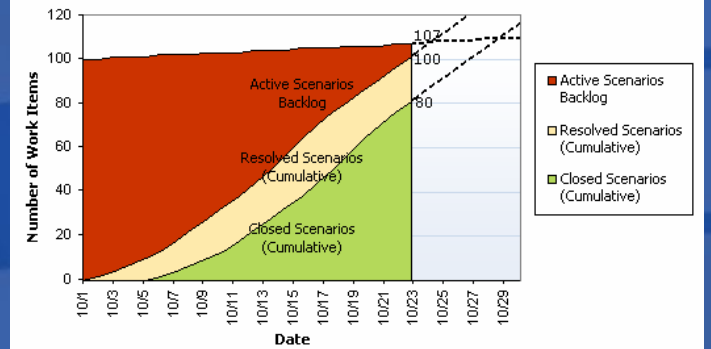


5



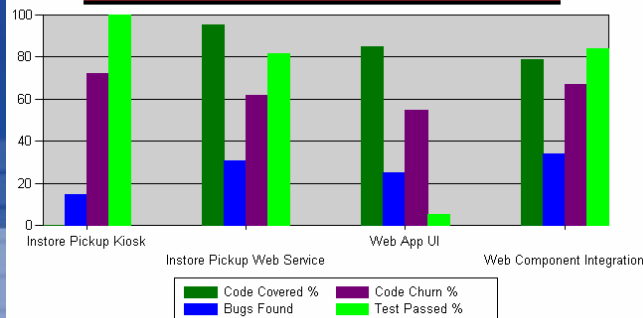
6

How much work is left and when will it be done?
[View report documentation](#)



4

Test Effectiveness



MSDN Webcasts

8. 总结

● Visual Studio Team System 是什么？

- 指导软件开发生命周期的工具
- 集成的开发工具
- 具有MSF及其他方法论指导的工具
- 丰富的微软内部工具支持
- 可扩展的平台

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早期采用VSTS的技术支持

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 - <http://blogs.msdn.com/AskBurton>
- 中文
 - <http://www.microsoft.com/china/msdn>
 - <http://www.microsoft.com/china/msdn/library/langtool/vsts/0504TeamSystem.mspix>
 - <http://bbs.mscommunity.com/forums>
- 我的邮箱
 - yulinjin@microsoft.com

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- **MSDN开发中心**
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Question & Answer

如需提出问题，请单击“提问”按钮并在随后显示的浮动面板中输入问题内容。一旦完成问题输入后，请单击“提问”按钮。

 **问题和解答 (无问题)** ▲ ×

在此会议中尚未解答任何问题。

要向演示者提问，请在此处键入问

提问(A)

删除(D)

问题管理器(Q)

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