

Making Visual Studio Team System work in your Organisation

www..SSW.com.au

Streamline your bug handling and development management system

Visual Studio Team Edition for Database Professionals

- **New Visual Studio Database Project**
 - import your database schema and put under source control.
 - build update scripts or packages and provides a deploy tool to the specified database.
- **Rename Refactoring**
- **New T-SQL Editor**
- **SchemaCompare**
- **DataCompare**
- **Database Unit Testing**
 - using T-SQL or managed code.
- **DataGenerator**
 - data based upon your existing production databases
 - can be deployed to a database prior to running unit tests thus ensuring consistent test results

- Chief Architect for www.ssw.com.au doing:
 - internal corporate development and
 - generic off-the-shelf databases
 - Clients: Royal & SunAlliance, Westbus, Microsoft...
- SSW Develops custom solutions for businesses across a range of industries such as Government, banking, insurance and manufacturing since 1990
- President .Net User Group, Sydney
- Speaker for Microsoft TechEd and Roadshows, Dev Conn, VSLive....
- Microsoft Regional Director, Australia
- AdamCogan@ssw.com.au

1. History of Bug Systems

2. Exploring VSTS / TFS (a tour)

3. What's wrong with VSTS for me

4. The Education

- What you can customize

5. The Solution

- including 3rd Parties



- Everyone needs one – even Microsoft!
- Basic Requirements
 - Searchable
 - Reportable
 - Notifications when done
- Nice-To-Haves
 - Source Control Integration
 - IDE integration (optional)
- Many solutions available for tracking tasks and bugs
 - Different storage mechanisms - Spreadsheets/ Databases/ Emails
 - Different Interfaces - Thin Client/Rich Client

- Excel
- Project
- Project Server
- Outlook Tasks
- Sharepoint Lists

- Mercury's Test Director
- Gemini - web (10 developers free)
- Target Process
- Bugzilla
- Axosoft OnTime
- DevTrack – web/windows
- Star Team
- Test Director
- Test Track PRO – windows
- Bug Tracker

- Mantis Bug Tracking System
 - www.mantisbt.org a php/MySQL/web based bug tracking system (text emails)
- Eventum
 - a php/MySQL/web based bug tracking system (text emails)
- A Wiki
- Infra
- ClearQuest
- Mini Track
- Joel Spolsky's FogBugz
 - Handles HTML much better, web based

- The most common is
 - Build your own
 - Emails
 - ToDo.txt
- The best one is
 - Emails and Exchange Public Folders
 - www.ssw.com.au/SSW/ExtremeEmails

FogBugz (www.fogcreek.com.au)

FogBugz Buy FogBugz search ?

User: Ghulam Mustafa List New Case Send Email Options Filters Discuss Snippets Log Off

Administrative Tools: Users Projects Mailboxes Clients Departments Priority Site

After purchasing FogBugz, you can download your trial database in [SQL Server 2000 format](#) or [Access format](#) or [MySQL format](#).

Open cases by project	1	0	0
Inbox			
Open cases by release	1	0	0
Global:			
Undecided			
Open cases by priority	1	0	0
1-Must Fix			
Open cases by person	1	0	0
Ghulam Mustafa			

Welcome to FogBugz.
[Project Management](#), [Helpdesk](#), and [Discussion Groups](#)

The link to your private demo site is:
<http://try4.fogbugz.com/?id=62844PICKEI>

Use the following address to send email into FogBugz:
trial+62844PICKEI@fogcreek.com

After purchasing FogBugz, you can download your trial database in [SQL Server 2000 format](#) or [Access format](#) or [MySQL format](#).

TASKS

- [List](#)
- Enter a [New Case](#)
- Send [Email](#)
- Capture [Screenshots](#)
- [Search](#)
- [Discussion Groups](#)
- [Release Notes](#)
- Configure [Options](#) and [Snippets](#)
- [Demo](#) FogBugz source control integration

ADMINISTRATION


- Manage [Users](#)
- Set up [Projects, Areas, and Releases](#)
- Configure [Mailboxes](#)

You are logged on as
Ghulam Mustafa
([Log Off](#))

SHOW ME:

- [Inbox](#)
- [My Cases](#)
- [Manage Filters](#)

Picture of the day



- A year ago... Extreme Emails




And for Reporting...

www.ssw.com.au/ssw/ExchangeReporter

Mail Folder Statistics

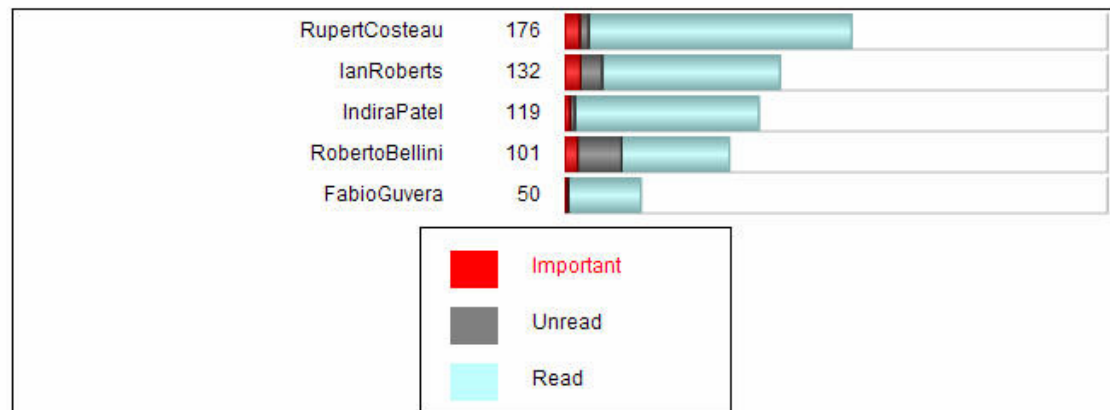


 Shows folder statistics over all folders.
Tip: Be on the lookout for especially large mailboxes.

Last Updated: Sat 21/08/2004 1:00 PM

Extraction Time: 00:12:00

Owner	Messages	Unread	Important	Size
RupertCosteau	176	3	9	10.8 MB
IanRoberts	132	13	9	10.0 MB
IndiraPatel	119	2	3	4.5 MB
RobertoBellini	101	28	8	4.0 MB
FabioGuvera	50	0	1	10.2 MB
	8,620	754	453	618.9 MB



What is something grand?

- Enormous
- Millions of men involved

Easter Island Statues



Titantic

www.**SSW**com.au



Visual Studio Team System (VSTS)

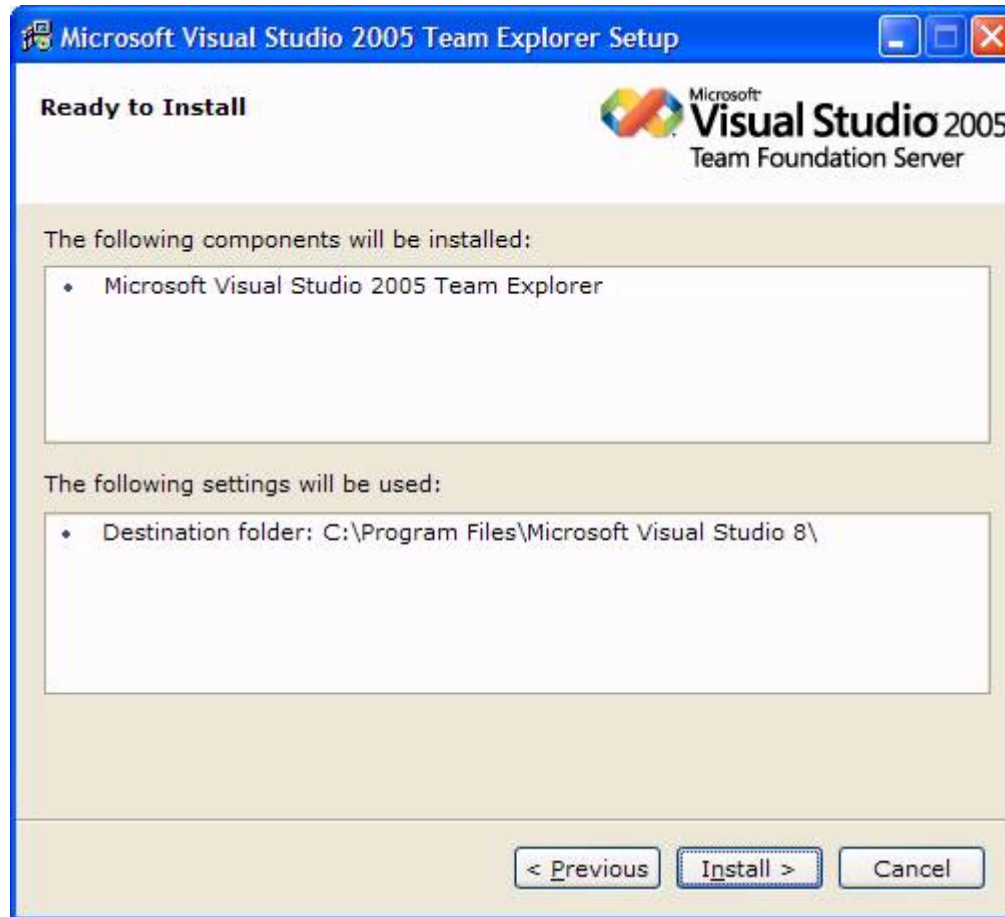
www.ssw.com.au



1. History of Bug Systems
2. Exploring VSTS / TFS (a tour)
3. What's wrong with VSTS for me
4. The Education
 - What you can customize
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Installing TFS



- VS 2005 Integrated IDE
- SQL Server 2005 Databases
- Reports in SharePoint
- Notifications via email

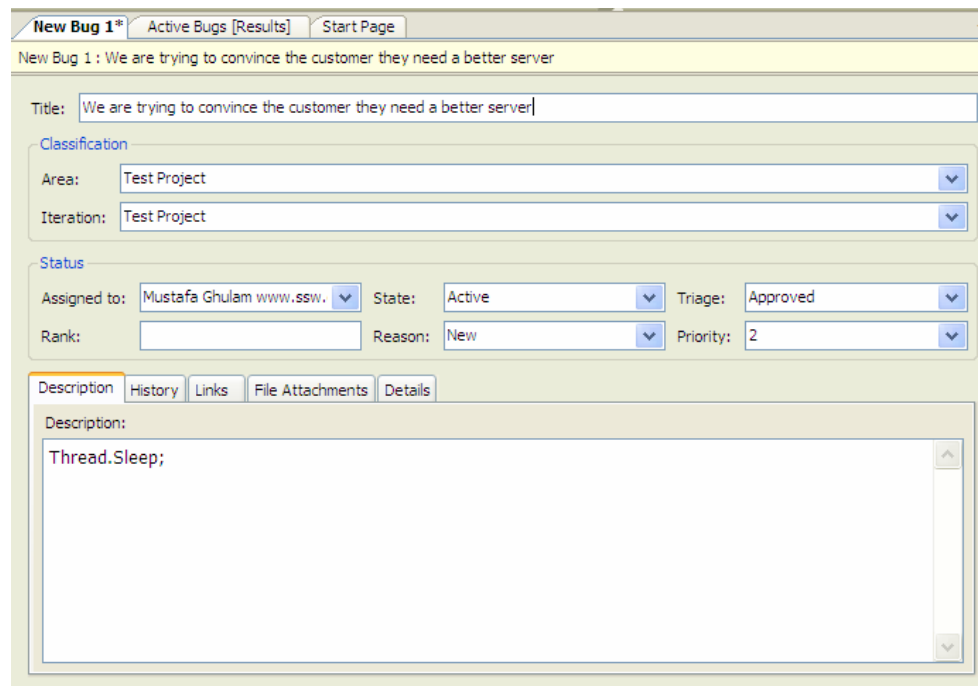
- Solves many problems.... 5 big ones for me

- Young Developers



You can't work out why the developers made the change

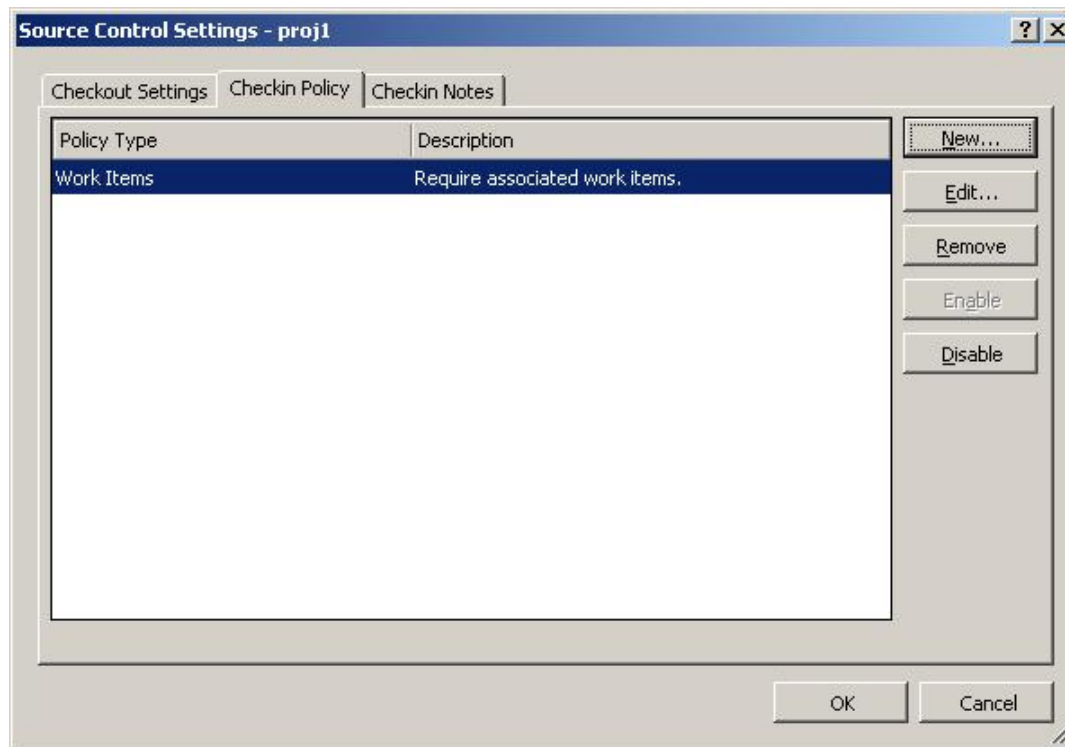
SOLUTION: TFS associates work items with the check-ins made. This allows you to determine the **WHY** rather than just the **WHAT**.



The screenshot shows a TFS bug report form for 'New Bug 1*'. The title is 'We are trying to convince the customer they need a better server'. The classification is 'Test Project' for both Area and Iteration. The status is 'Active', assigned to 'Mustafa Ghulam www.ssw.', with a triage of 'Approved', rank of 'New', and priority of '2'. The description field contains the text 'Thread.Sleep;'. The form includes tabs for 'Description', 'History', 'Links', 'File Attachments', and 'Details'.

New Bug 1* Active Bugs [Results] Start Page			
New Bug 1 : We are trying to convince the customer they need a better server			
Title: We are trying to convince the customer they need a better server			
Classification			
Area:	Test Project		
Iteration:	Test Project		
Status			
Assigned to:	Mustafa Ghulam www.ssw.	State:	Active
		Triage:	Approved
Rank:		Reason:	New
		Priority:	2
Description History Links File Attachments Details			
Description: Thread.Sleep;			

HOW: The Manager defines the policy for Source Control



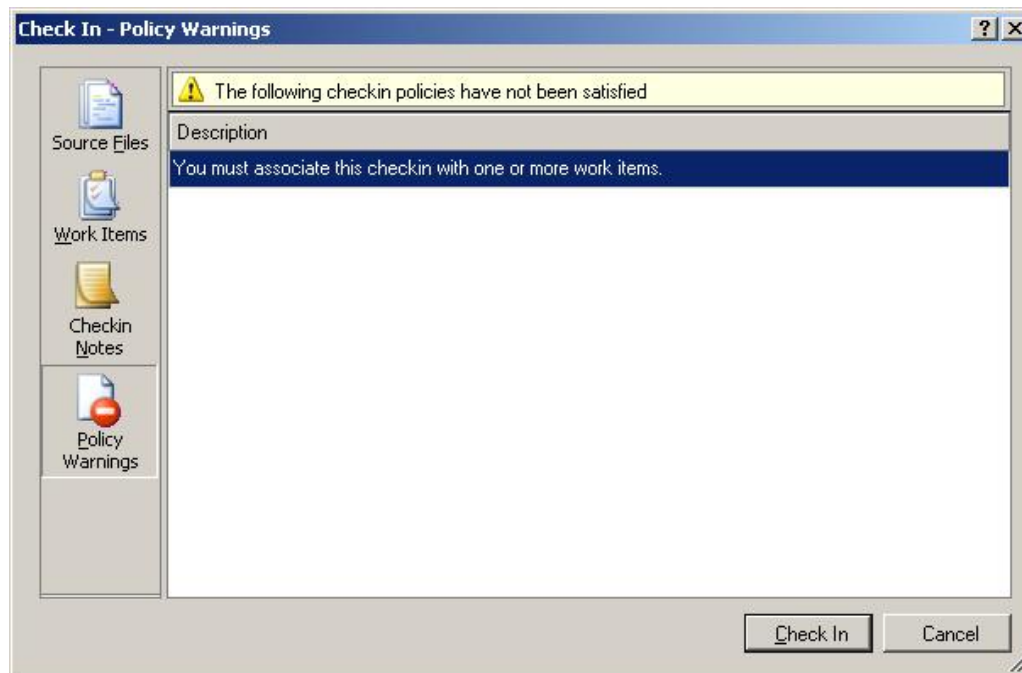
- Some developers cause more problems than they solve



Developers regularly check in changes that break.

Bugs are detected the day before release!

SOLUTION: VSTS has Unit Testing support built in. You can also use Team Foundation Server to perform a nightly build. Bugs will be found SOONER rather than LATER.



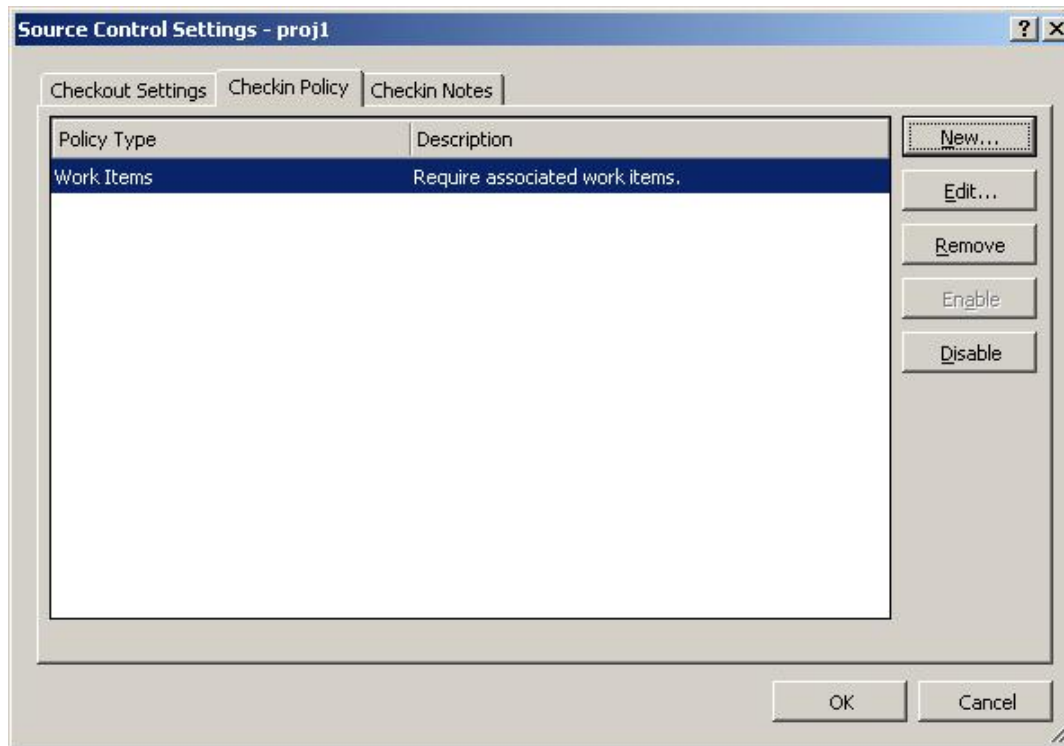
Senior Developers



Developers check in changes that don't comply with company standards

SOLUTION: VSTS Source Control support allows check-in policies to enforce code rules and provides Code Analysis

Eg. FxCop, SSW Code Auditor



Business People

Should be able
to understand



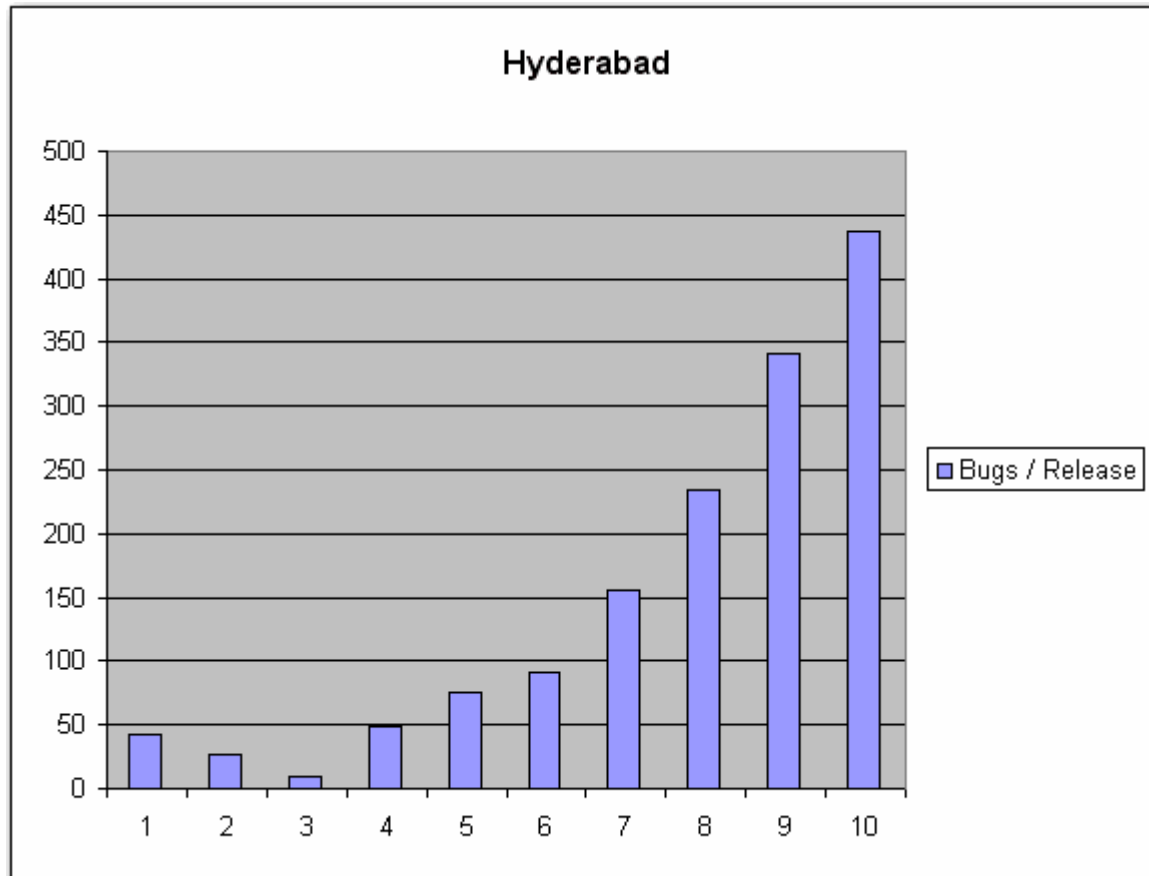
Your project fails because you don't know the true state of the project (poor visibility)

SOLUTION: reporting off these (into Project and SharePoint).

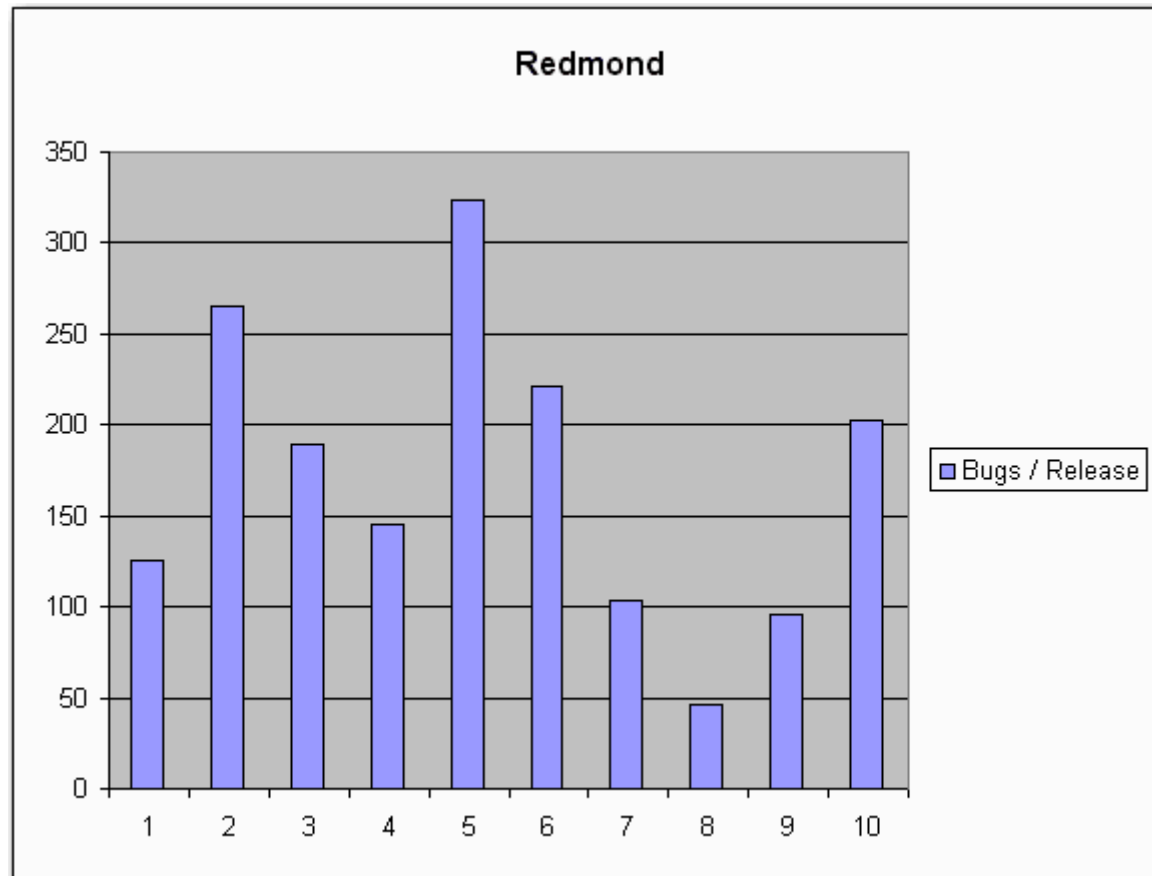
- * see who is doing what work
- * see how much work is left to be done

eg. Lets imagine you have 3 offices... can business people understand?

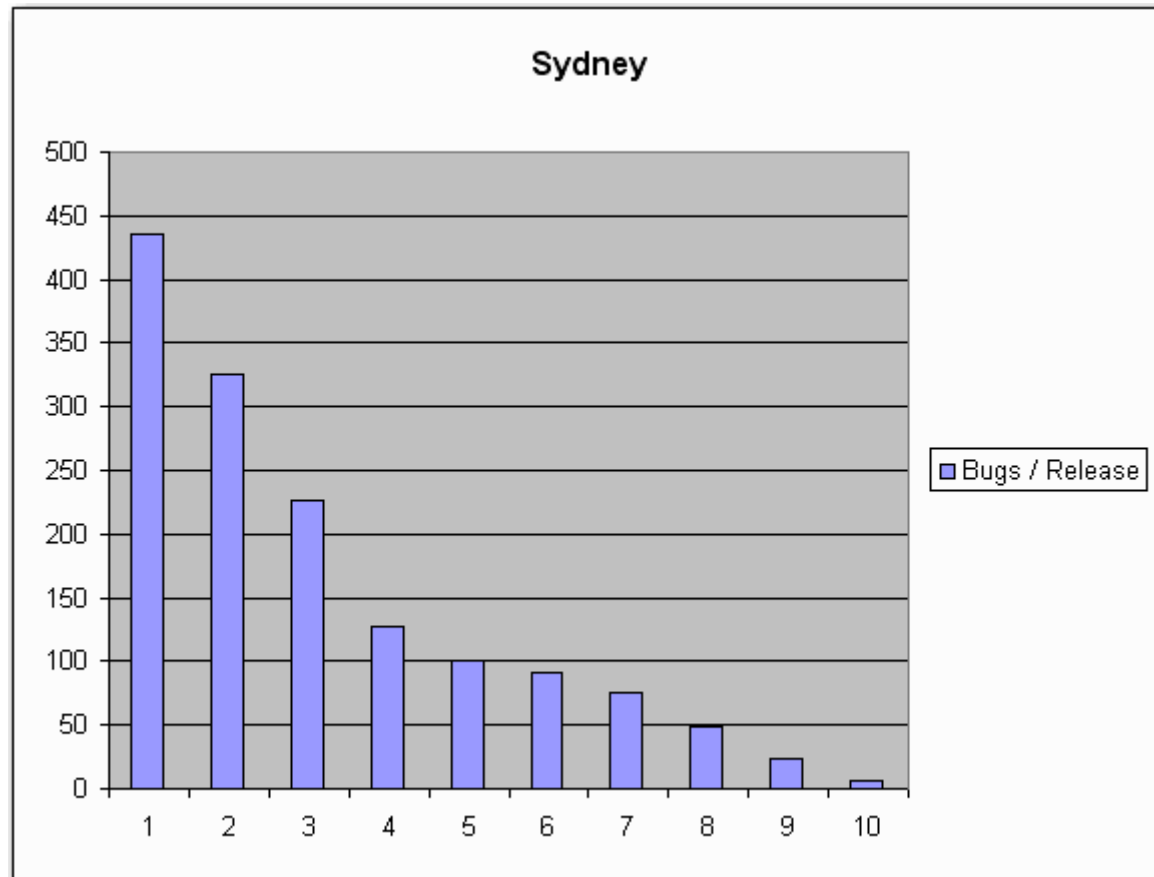
Problem #4



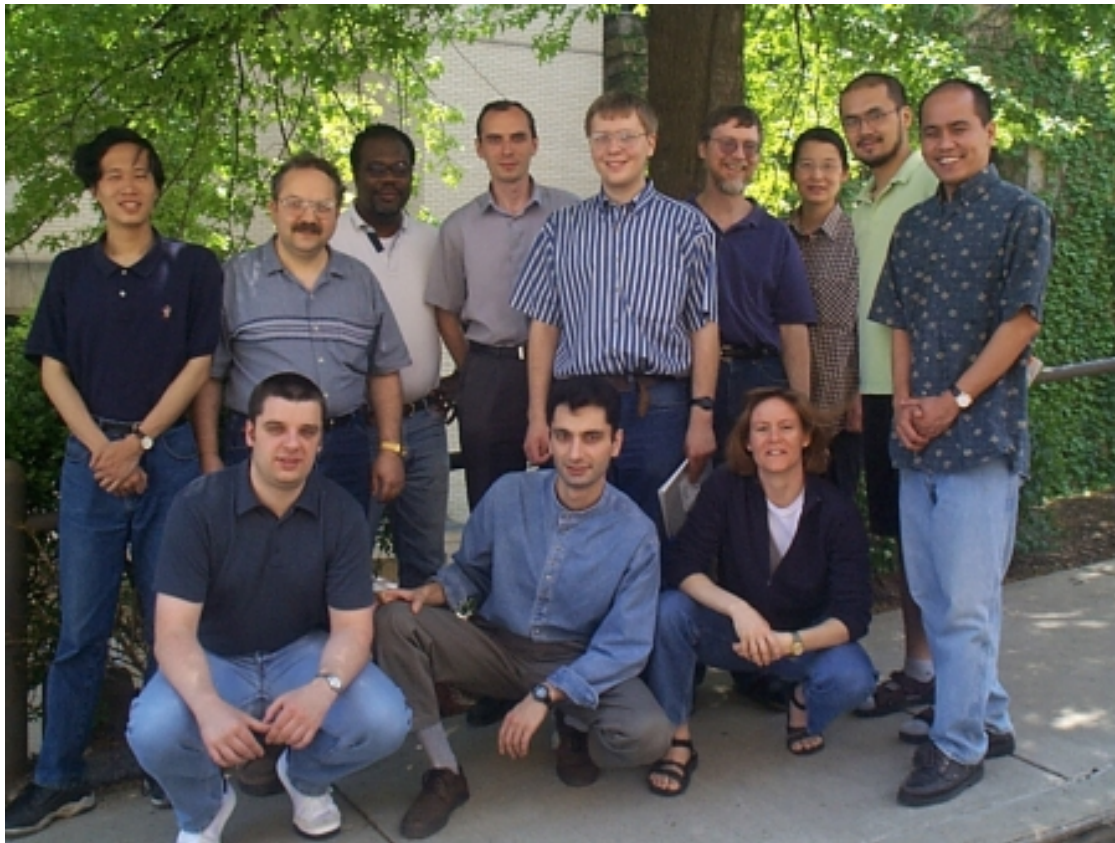
Problem #4



Problem #4



Bugs



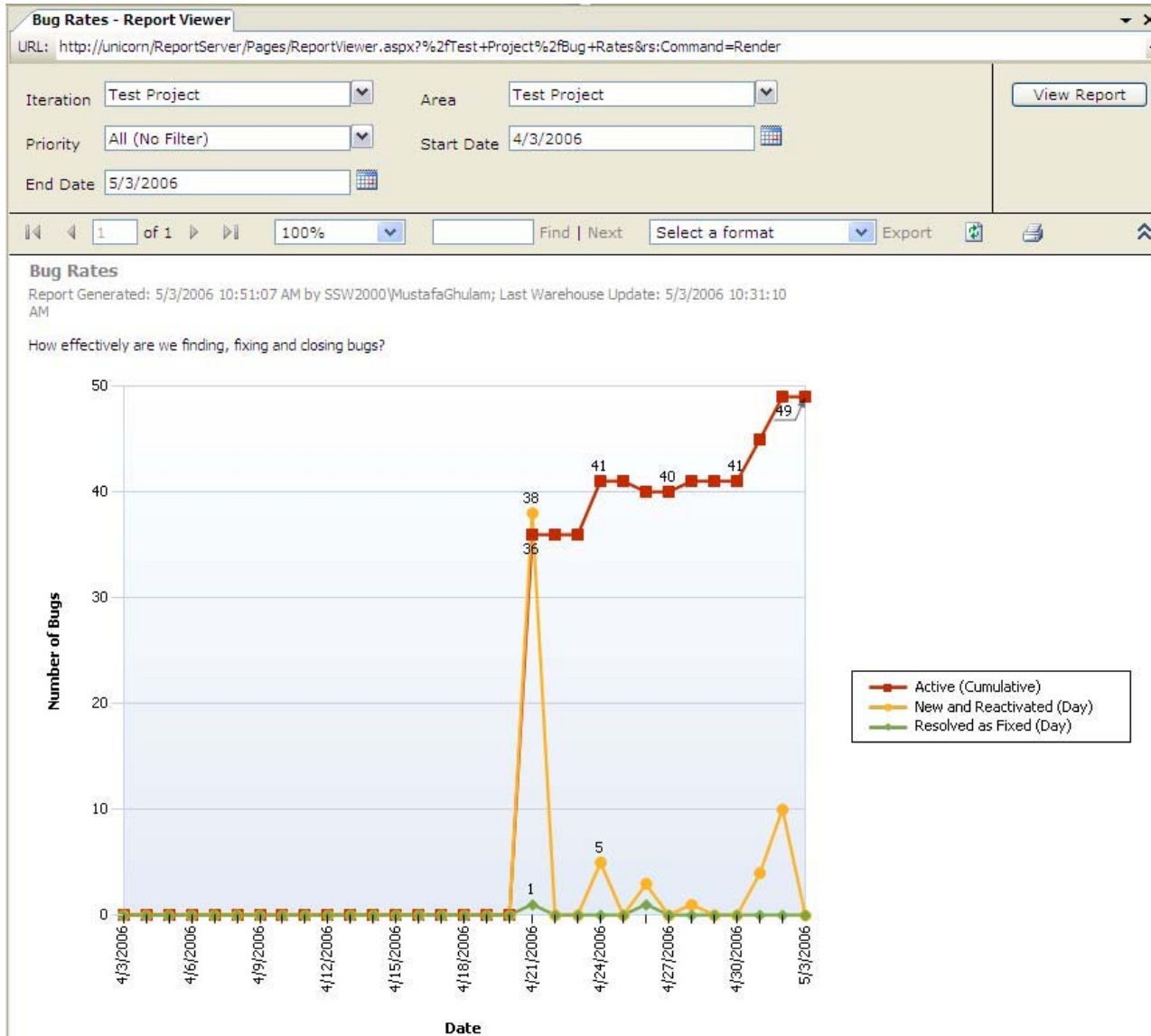
You are getting a lot of runtime exceptions in your application because there are not many unit tests

SOLUTION: Project Managers see Code Coverage Report

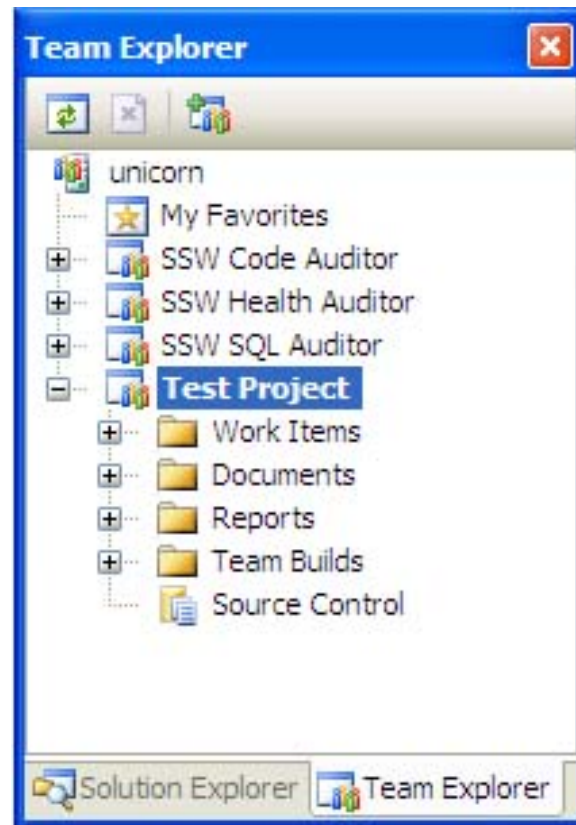
Eg. determine they want 90% coverage... lets see...

Problem #5

XX



Team Explorer

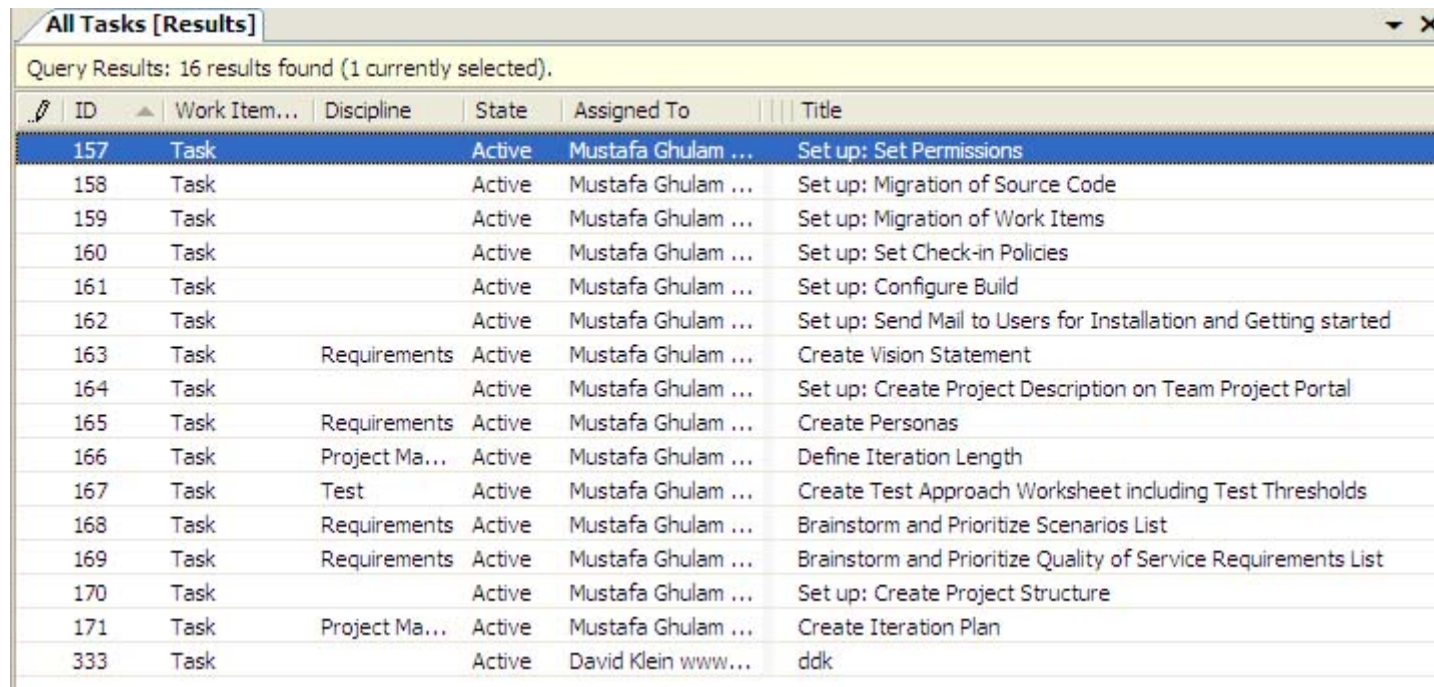


- Add Work Items

The screenshot shows a 'New Bug 1*' form in VSTS. The form is titled 'New Bug 1 : New WorkItem'. It contains the following fields and sections:

- Title:** A text box containing 'New WorkItem'.
- Classification:** A section containing two dropdown menus: 'Area' (set to 'Test Project') and 'Iteration' (set to 'Test Project').
- Status:** A section containing several dropdown menus: 'Assigned to' (set to 'Mustafa Ghulam www.s'), 'State' (set to 'Active'), 'Triage' (set to 'Approved'), 'Rank' (empty), 'Reason' (set to 'New'), and 'Priority' (set to '2').
- Description:** A section with tabs for 'Description', 'History', 'Links', 'File Attachments', and 'Details'. The 'Description' tab is selected, showing a large text area with the placeholder text 'Description'.

- View Task Lists



Query Results: 16 results found (1 currently selected).

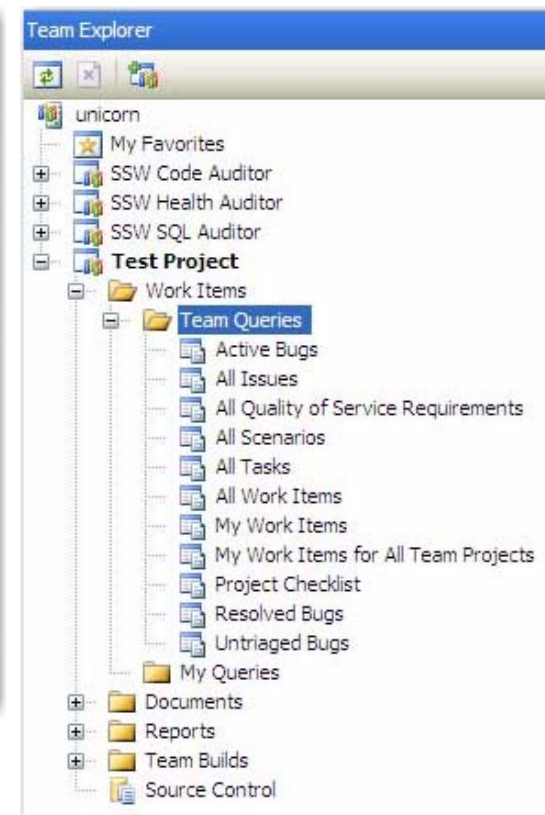
ID	Work Item...	Discipline	State	Assigned To	Title
157	Task		Active	Mustafa Ghulam ...	Set up: Set Permissions
158	Task		Active	Mustafa Ghulam ...	Set up: Migration of Source Code
159	Task		Active	Mustafa Ghulam ...	Set up: Migration of Work Items
160	Task		Active	Mustafa Ghulam ...	Set up: Set Check-in Policies
161	Task		Active	Mustafa Ghulam ...	Set up: Configure Build
162	Task		Active	Mustafa Ghulam ...	Set up: Send Mail to Users for Installation and Getting started
163	Task	Requirements	Active	Mustafa Ghulam ...	Create Vision Statement
164	Task		Active	Mustafa Ghulam ...	Set up: Create Project Description on Team Project Portal
165	Task	Requirements	Active	Mustafa Ghulam ...	Create Personas
166	Task	Project Ma...	Active	Mustafa Ghulam ...	Define Iteration Length
167	Task	Test	Active	Mustafa Ghulam ...	Create Test Approach Worksheet including Test Thresholds
168	Task	Requirements	Active	Mustafa Ghulam ...	Brainstorm and Prioritize Scenarios List
169	Task	Requirements	Active	Mustafa Ghulam ...	Brainstorm and Prioritize Quality of Service Requirements List
170	Task		Active	Mustafa Ghulam ...	Set up: Create Project Structure
171	Task	Project Ma...	Active	Mustafa Ghulam ...	Create Iteration Plan
333	Task		Active	David Klein www...	ddk

- Built in Queries

And/Or	Field	Operator	Value
	Team Project	=	@Project
And	Work Item Type	=	Bug
And	State	=	Active

Query Results: 49 results found (1 currently selected).

ID	Work Item Type	Assigned To	Created By	Priority
222	Bug	Mustafa Ghulam www.ssw.com.au	Mustafa Ghulam www.ssw.com.au	2
223	Bug	Mustafa Ghulam www.ssw.com.au	Mustafa Ghulam www.ssw.com.au	2
224	Bug	Mustafa Ghulam www.ssw.com.au	Mustafa Ghulam www.ssw.com.au	2
240	Bug	Mustafa Ghulam www.ssw.com.au	Mustafa Ghulam www.ssw.com.au	2
241	Bug	Mustafa Ghulam www.ssw.com.au	Mustafa Ghulam www.ssw.com.au	2
242	Bug	Nasir Ali www.ssw.com.au	Mustafa Ghulam www.ssw.com.au	2
243	Bug	Mustafa Ghulam www.ssw.com.au	Mustafa Ghulam www.ssw.com.au	1
244	Bug	Mustafa Ghulam www.ssw.com.au	Mustafa Ghulam www.ssw.com.au	1
245	Bug	Mustafa Ghulam www.ssw.com.au	Mustafa Ghulam www.ssw.com.au	1
248	Bug	Mustafa Ghulam www.ssw.com.au	Mustafa Ghulam www.ssw.com.au	1
249	Bug	Mustafa Ghulam www.ssw.com.au	Mustafa Ghulam www.ssw.com.au	1



- Custom Queries

The screenshot shows a 'New Query 1 [Query]*' window with a table for defining query clauses. The table has columns for 'And/Or', 'Field', 'Operator', and 'Value'. Two clauses are defined: 'Assigned To' with operator '=' and value '@Me', and 'Team Project' with operator '=' and value '@Project'. Below the table is a yellow bar indicating 'Query Results: 61 results found (1 currently selected)'. A table below that lists the results with columns for 'ID' and 'Title'. The first result, ID 157, 'Set up: Set Permissions', is highlighted in blue.

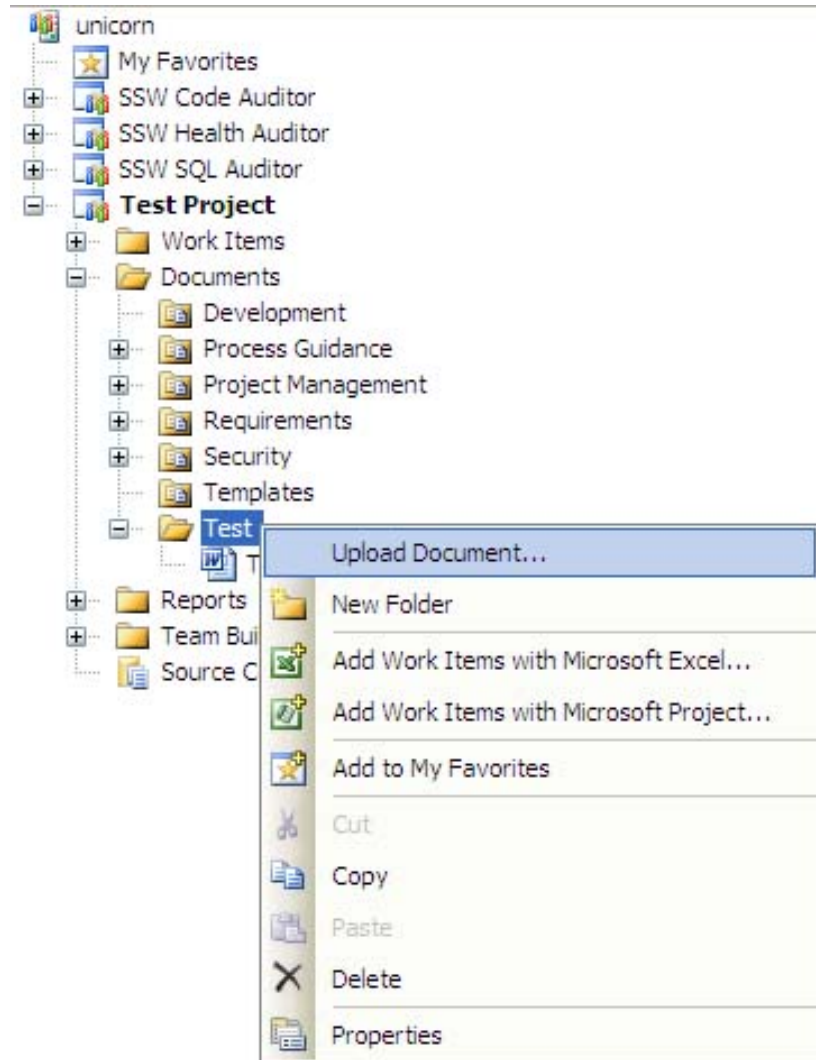
And/Or	Field	Operator	Value
	Assigned To	=	@Me
And	Team Project	=	@Project

* Click here to add a clause

Query Results: 61 results found (1 currently selected).

ID	Title
157	Set up: Set Permissions
158	Set up: Migration of Source Code
159	Set up: Migration of Work Items
160	Set up: Set Check-in Policies
161	Set up: Configure Build
162	Set up: Send Mail to Users for Installation and Getting started
163	Create Vision Statement
164	Set up: Create Project Description on Team Project Portal
165	Create Personas
166	Define Iteration Length

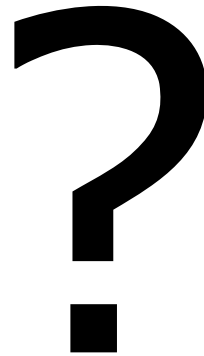
- Write Tests Documents



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What's wrong with VSTS for me



What's wrong with VSTS for me?

- Unnecessary fields ✘
- Data in combos ✘
- Getting bugs from Outlook ✘
- Responding with history ✘
- The Reports ✘

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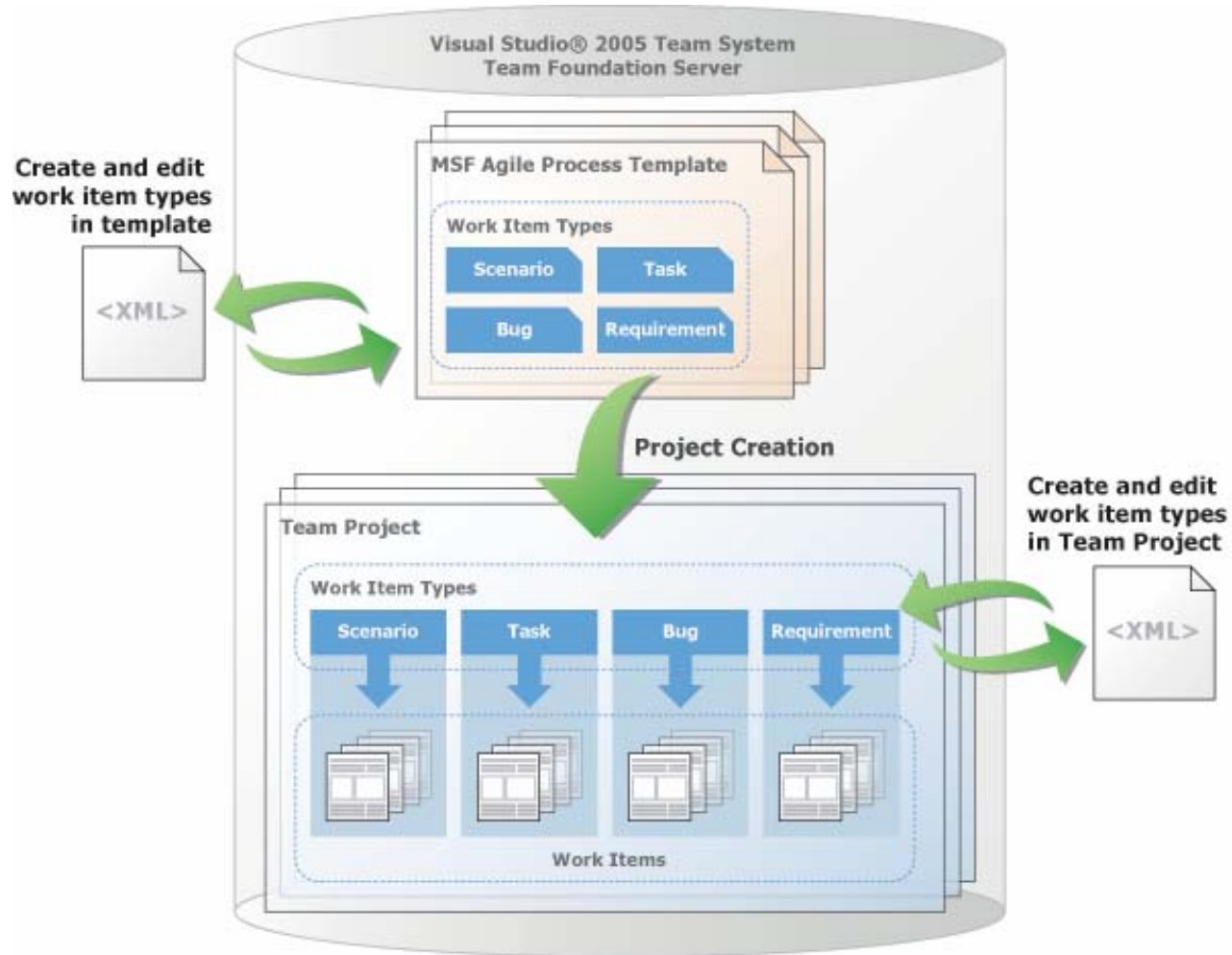


- Changing VSTS
 - Customizing Work Items
 - Customizing Process Templates

- Integration
 - Databases
 - Web Services
 - Object Models

- Customizing Work Items
 - WitExport
 - WitImport

- Customizing Process Templates

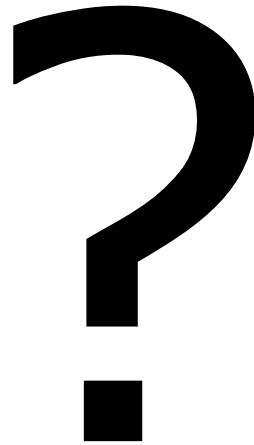


- Customizing Process Templates

- ProcessTemplate.xml
- Task.xml

– Visual Studio Team System Process Template Editor

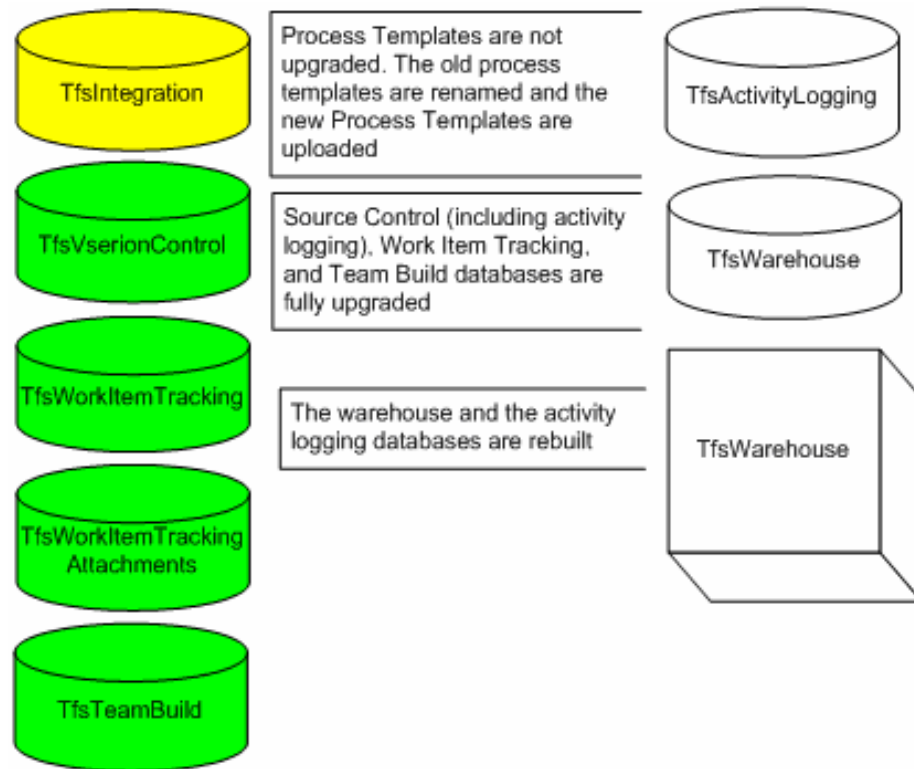
<http://www.gotdotnet.com/Workspaces/Workspace.aspx?id=812a68af-5e74-48c6-9623-1a4469142a84>



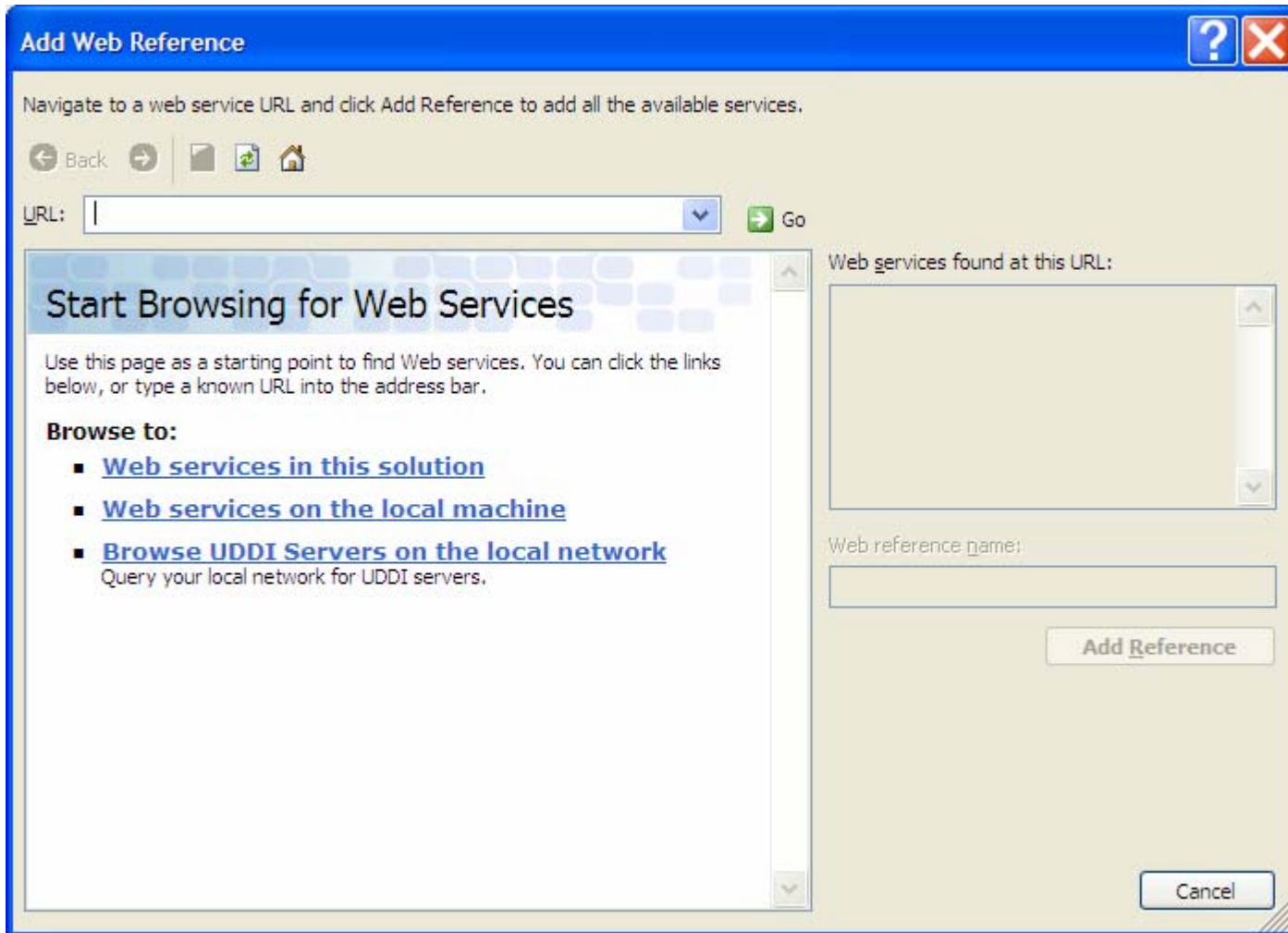


Uses 6 SQL Server 2005 databases

- TfsWorkItemTrackingAttachments
- TfsIntegration
- TfsVersionControl
- TfsWorkItemTracking
- TfsTeamBuild



Program via Web Services – gives UI



Uses web services – although not documented

- E.g.
<http://unicorn:8080/VersionControl/v1.0/Repository.asmx>
QueryItem(), Checkin() Web Methods
- Web Services Trace/IIS Log



Program via Object Model

- Store = Server
- WorkItemType = Bug, Task...

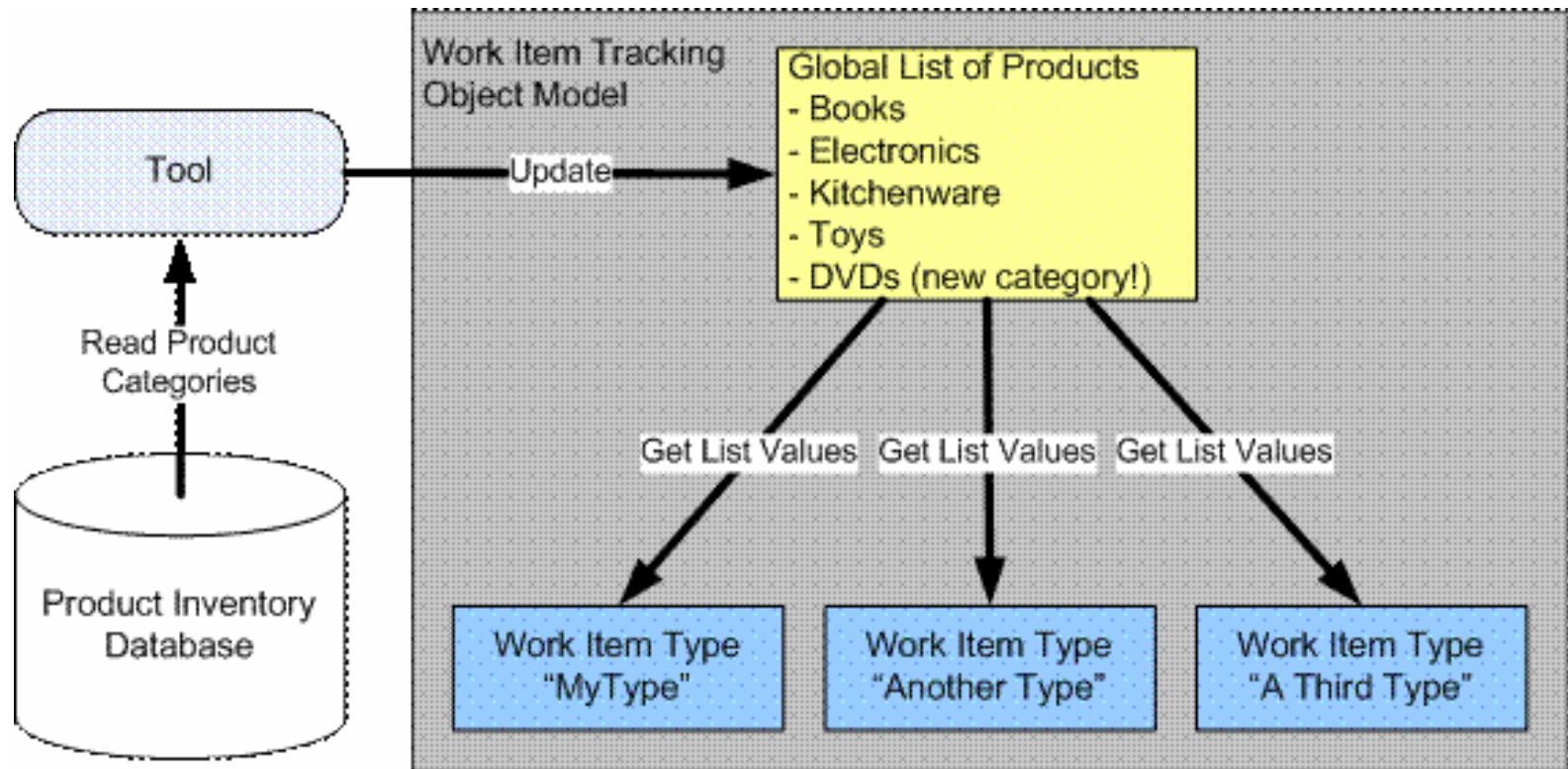
```
public void CreateWorkItem(string server, string projectName, string owner)
{
    TeamFoundationServer tfs = TeamFoundationServerFactory.GetServer(server);
    WorkItemStore store = (WorkItemStore) tfs.GetService(typeof(WorkItemStore));

    WorkItemTypeCollection workItemTypes = store.Projects[projectName].WorkItemTypes;

    // Enter the work item as a bug
    WorkItemType wit = workItemTypes["bug"];
    WorkItem workItem = new WorkItem(wit);

    workItem.Title = "The changes submitted have caused a build break - please investigate";
    string[] ownerSplit = owner.Split('\\');
    owner = ownerSplit[ownerSplit.GetLength(0) - 1];
    workItem.Fields["System.AssignedTo"].Value = owner;
    workItem.Fields["Microsoft.VSTS.Common.Priority"].Value = 1;
    workItem.Save();
}
```

- Customize Work Item
- XX



This is what it does underneath the toolbar



what dll it is using with Sys Internals Process Explorer?

File	C:\Program Files\Common Files\Microsoft Shared\VBA\VBA6\VBE6EXT.OLB
File	C:\Program Files\Microsoft Office 2003\OFFICE11\EXCEL.EXE
File	C:\Program Files\Microsoft Visual Studio 8\Common7\IDE\PrivateAssemblies\Microsoft.TeamFoundation.OfficeIntegration.Common.dll
File	C:\Program Files\Microsoft Visual Studio 8\Common7\IDE\PrivateAssemblies\Microsoft.TeamFoundation.OfficeIntegration.Common.tlb
File	C:\Program Files\Microsoft Visual Studio 8\Common7\IDE\PrivateAssemblies\Microsoft.TeamFoundation.OfficeIntegration.Excel.dll
File	C:\Program Files\Microsoft Visual Studio 8\Common7\IDE\PrivateAssemblies\Microsoft.TeamFoundation.WorkItemTracking.Controls.dll
File	C:\WINDOWS\assembly\GAC\Extensibility\7.0.3300.0_b03f5f7f11d50a3a\Extensibility.dll

What operations do the buttons perform and how the code reads/writes items

The screenshot shows the Lutz Roeder's .NET Reflector application. The left pane displays the assembly structure for 'Microsoft.TeamFoundation.OfficeIntegration.Excel'. The 'CommandBars' folder is expanded, showing a list of command bar names and their corresponding enable masks. The 'GetWorkItemsCommand_Click' method is highlighted in the list.

The right pane shows the disassembled code for the 'GetWorkItemsCommand_Click' method. The code is as follows:

```
private void GetWorkItemsCommand_Click(CommandBarButton cmdBarButton, ref bool cancel)
{
    ELeadListObject obj1 = null;
    try
    {
        obj1 = this.m_addin.GetSelectedELeadListObject();
        if (obj1 != null)
        {
            obj1.GetWorkItems();
        }
    }
    catch (COMException exception1)
    {
        TeamFoundationTrace.TraceException(exception1);
        ELeadAlerts.Instance.ResetStatusBar();
        this.m_addin.ShowError(ExcelResources.ErrorModifyingList, ExcelResources.Excel_AppName);
    }
    catch (ClientException exception2)
    {
        TeamFoundationTrace.TraceException(exception2);
        ELeadAlerts.Instance.ResetStatusBar();
        this.m_addin.ShowError(OfficeExceptionTranslator.TranslateException(exception2), ExcelResources.Excel_AppName);
        if (obj1 != null)
        {
            obj1.ProjectContext.IsConnected = false;
        }
    }
    catch (Exception exception3)
    {
        TeamFoundationTrace.TraceException(exception3);
        ELeadAlerts.Instance.ResetStatusBar();
        this.m_addin.ShowError(OfficeExceptionTranslator.TranslateException(exception3), ExcelResources.Excel_AppName);
    }
}
```

The bottom pane shows the declaring type and assembly information for the method:

```
private void GetWorkItemsCommand_Click(CommandBarButton cmdBarButton, ref bool cancel)
Declaring Type: Microsoft.TeamFoundation.OfficeIntegration.Client.ExcelCommands
Assembly: Microsoft.TeamFoundation.OfficeIntegration.Excel, Version=8.0.0.0
```


- Using the TFS Object Model (TFSOM)
 - Reference C:\Program Files\Microsoft Visual Studio 8\Common7\IDE\PrivateAssemblies
 - Microsoft.TeamFoundation.WorkItemTracking
 - Team Foundation Namespace
 - TeamFoundationServer
 - WorkItemStore
 - WorkItem

- Reading and writing data

Microsoft.TeamFoundation.dll

- (Abstract classes for Accessing TFS data from Databases)

Microsoft.TeamFoundation.Client.dll

- (Assigning Permission, Adding deleting Groups and users)

Microsoft.TeamFoundation.Common.dll

- (All type of Exception utilities)

Microsoft.TeamFoundation.WorkItemTracking.Controls.dll

- (Connection and Controls of TFS UI)

Microsoft.TeamFoundation.WorkItemTracking.Client.dll

- (Adding, Updating WorkItems)

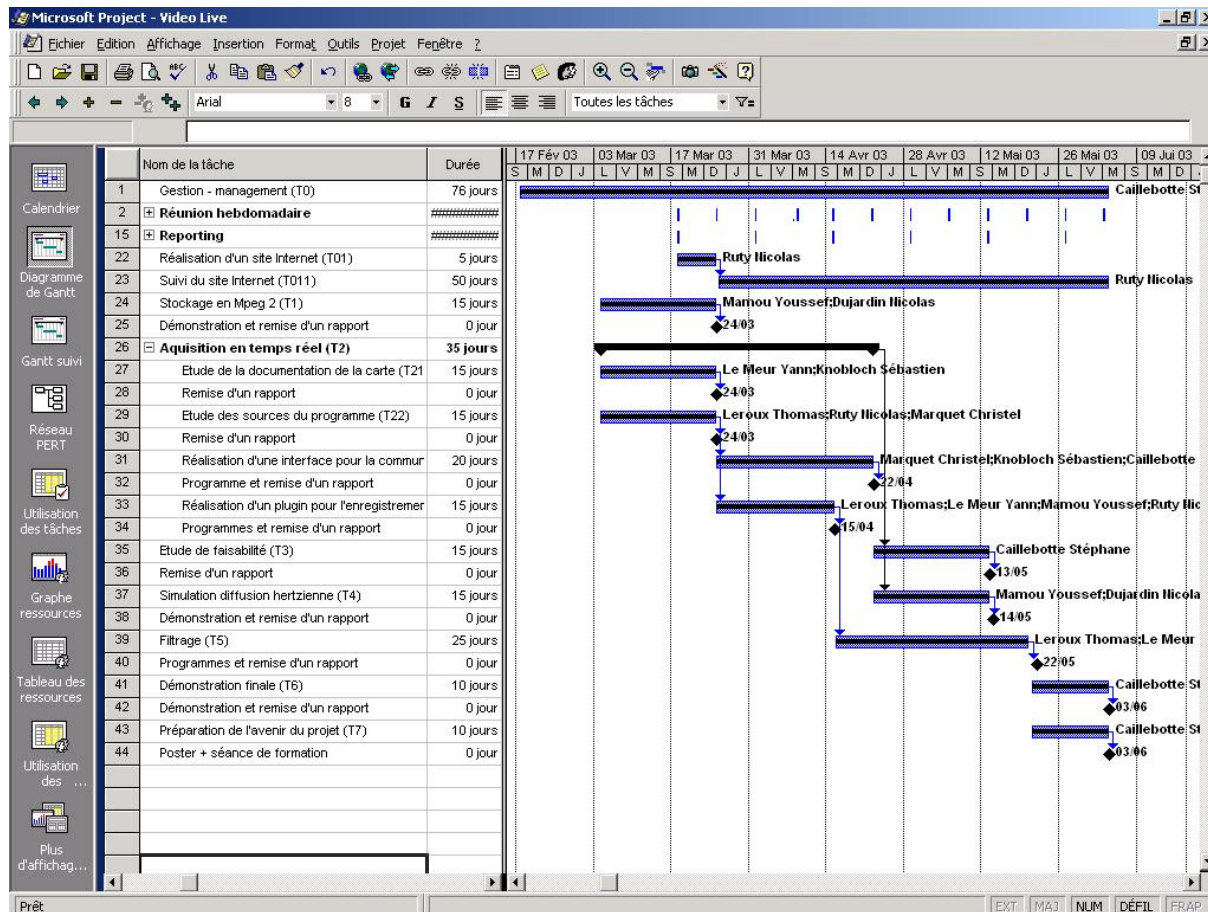
- Hooking your application into TFS events
 - Team Foundation Server Events
 - Using BisSubscribe.exe to subscribe to events

- Tools
 - MS Excel
 - MS Project
 - 3rd Parties – Team Plain
 - 3rd Parties – Team Look
 - 3rd Parties – SSW eXtreme Emails!

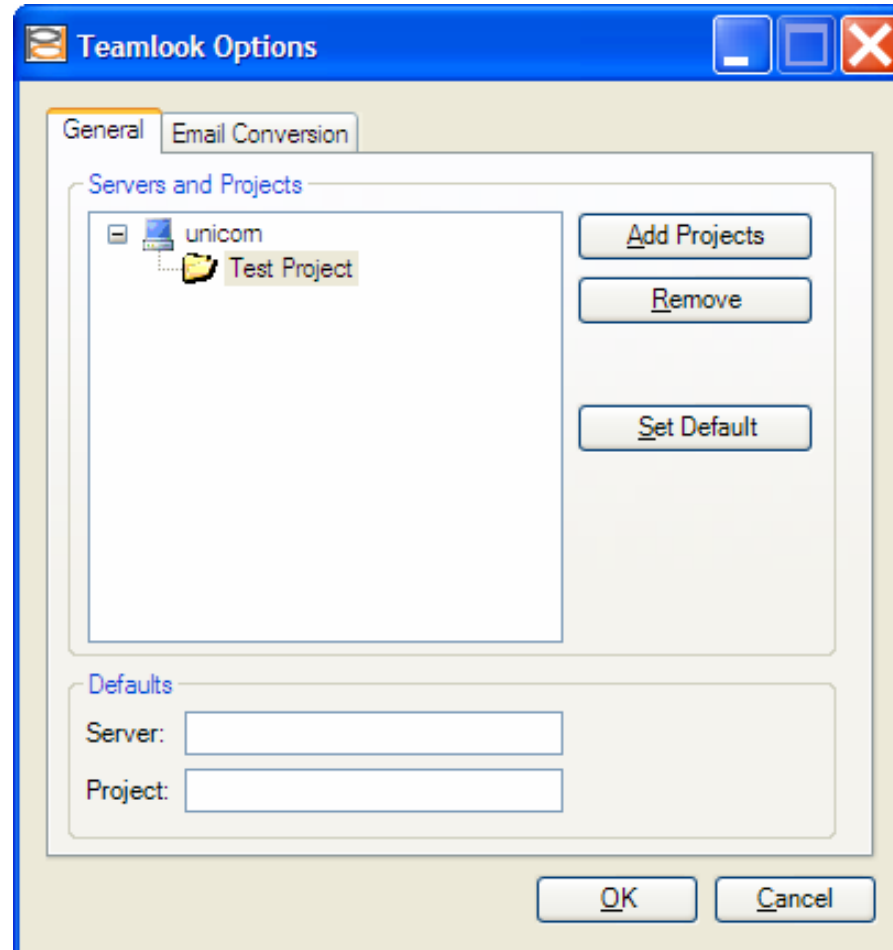
- MS Excel



- MS Project



- Team Look – pretty good - one problem!



- SSW eXtreme Emails!

Incident: Task 1 - Create a new report project

Incident

Track details about your incident

eXtremeEmails!

General | Project

Estimate Times

Estimated Time: []

Priority: 3 Normal Priority #: 50

This incident is an additional item

Status

Date Completed: [] Actual Time: []

Status: To Do

Send Reply on Completion

Refresh Save Cancel

This form loaded in 0.499 seconds



- Team Plain

The screenshot displays the Team Plain web application interface. At the top, there is a navigation bar with tabs for Home, Work Items, Reports, Documents, and Source. Below this, a user profile for John @ tfsrc is shown, along with a project dropdown set to 'Adventure Works (CMMI)'. The main content area is divided into several sections:

- Adventure Works (CMMI)**: A summary section with links for Organize Favorites, My Queries, Team Queries, Documents, Reports, and Source Control.
- Work Items Assigned To Me**: A summary section showing 4 Bugs (2 Active, 2 Closed) and 1 Task (1 Active).
- Recently Accessed Work Items**: A table listing recent work items with their IDs, types, statuses, and titles.

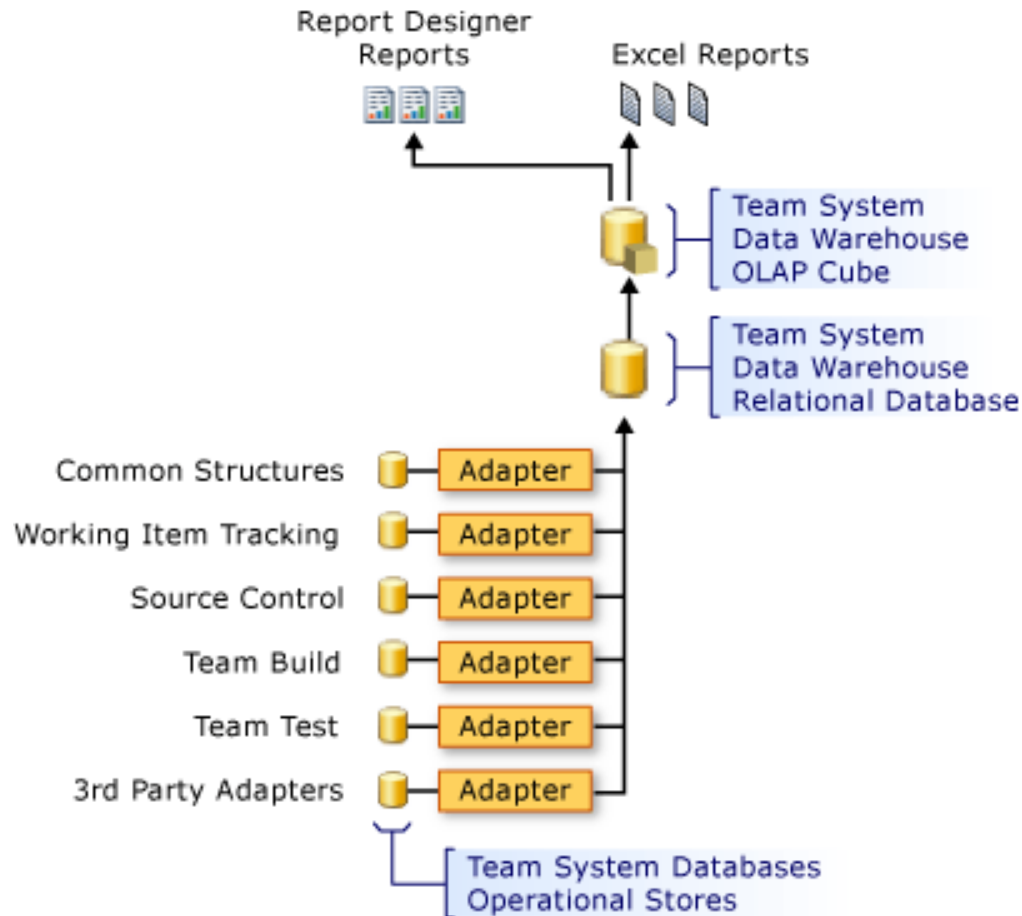
On the left side, there is a sidebar with a search bar and several categorized lists: Favorites (My Work Items for All Team), My Queries (Compiler Bug), Team Queries (Active Bugs, All Tasks, All Work Items, My Work Items for All Team, All Quality of Service Requir, All Issues, Project Checklist, My Work Items, All Scenarios, Resolved Bugs), and Reports (Actual Quality vs Planned Ve, Bugs by Priority, Bug Rates, Unplanned Work, Work Item with TestResults, Regressions, Bugs Found Without Corresp, Remaining Work, Builds, Work Items).

At the bottom of the page, a footer indicates: TeamPlain Web Access for Team System Version 1.0 Build 2301 by devBiz Business Solutions.

- Web Access - TeamPlain is available (\$199 per user + CAL)
<http://www.devbiz.com/teamplain/webaccess/>
- TeamLook - TeamLook is available (\$99.95 per user + CAL)
<http://www.personifydesign.com/default.aspx?tabid=84>
– <http://www.personifydesign.com/Default.aspx?tabid=63>
- eXtreme Email - eXtreme Email is available (US\$99 per user + CAL)
<http://www.ssw.com.au/ssw/eXtremeEmails/>

Other add-ins can be found at

<http://blogs.msdn.com/jimlamb/articles/tfsfaq.aspx>

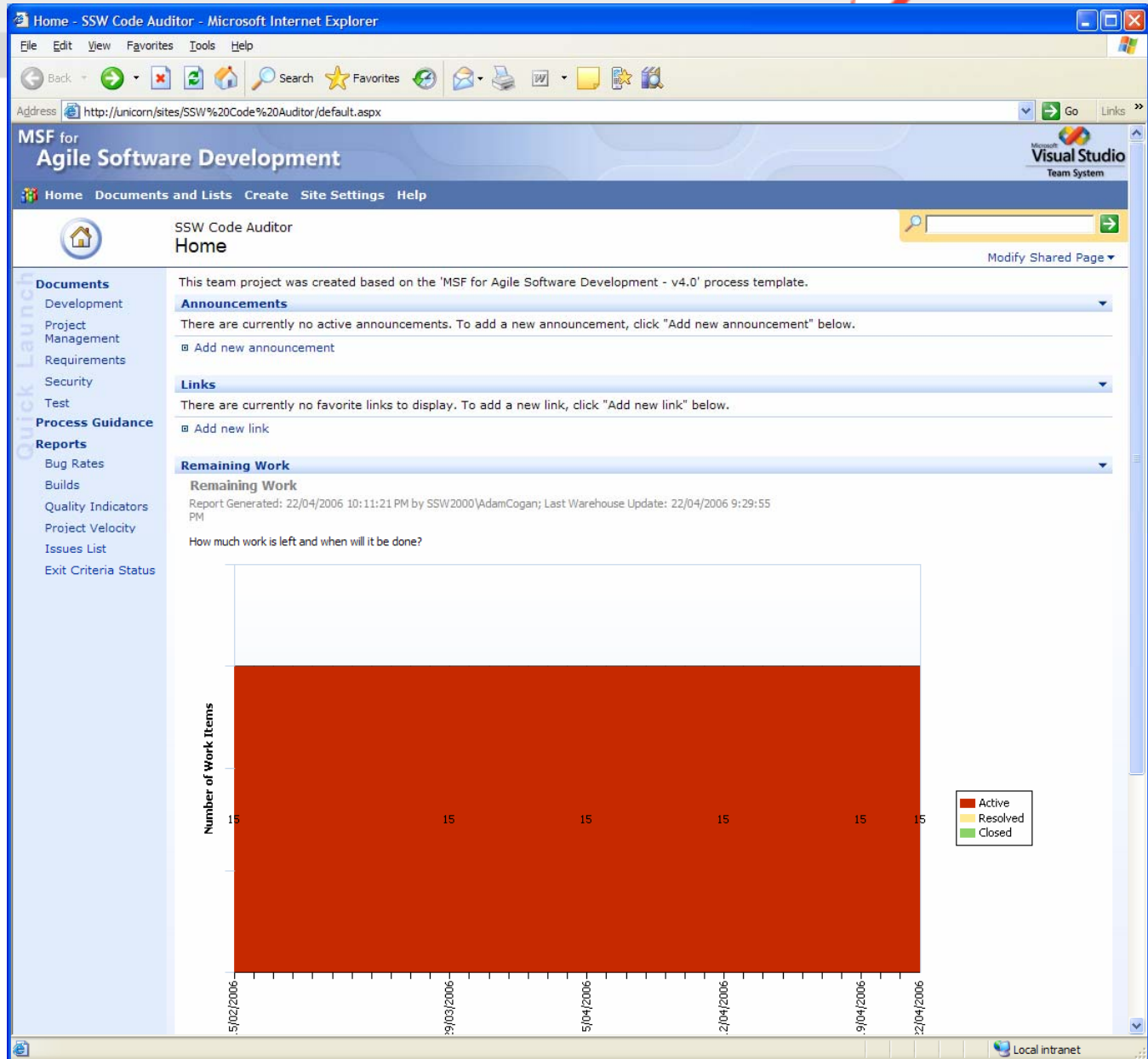


- The structure of the Team System Cube
 - Fact Tables
 - Dimension Tables
 - Perspectives
 - Build Perspective
 - Code Churn Perspective
 - Code Coverage Perspective
 - Current Work Item Perspective
 - Work Item Perspective
 - Load Test Perspective
 - Test Result Perspective

TFS Sharepoint Portal


- Can see bugs going down
- Can't create work items
- No source browsing
- No Search
- Limited reports
- Useless!

<http://unicorn/sites/SSW%20Code%20Auditor/default.aspx>



Who for?

- Users *without* Team Explorer (in Visual Studio 2005)
- Managers, analysts, tech support, sales, non-developers
- Users working on non-Windows computers (as long as they don't need Source Control)
- Missing Diffs in Source Control
- No check-in in Source Control
- Expensive - \$199 per user for the Pro version
- <http://demo.teamplain.com>
- <http://www.devbiz.com/teamplain/webaccess/default.aspx>



teamplain
Web Access for Team System

www.teamplain.com

Home
Work Items
Reports
Documents
Source

John @ vstsdemo
(signout)

Settings
Help

Project: Northwind

New Work Item
New Query

Go #

Favorites MORE >

- Bug Rates
- Active Bugs

My Queries MORE >

- Important Tasks
- Work Done Today

Team Queries MORE >

- All Work Items
- Active Bugs
- All Issues
- All Quality of Service Req...
- All Scenarios

Reports MORE >

- Bug Rates
- Builds
- Project Velocity
- Work Item with TestResults
- Regressions

Northwind

[Organize Favorites](#)

[My Queries](#)

[Team Queries](#)

[Documents](#)

[Reports](#)

[Source Control](#)

Work Items Assigned To Me

[3 Bugs](#)

- 1 Active
- 1 Closed
- 1 Resolved

[15 Tasks](#)

- 13 Active
- 2 Closed

[1 Scenario](#)

- 1 Active

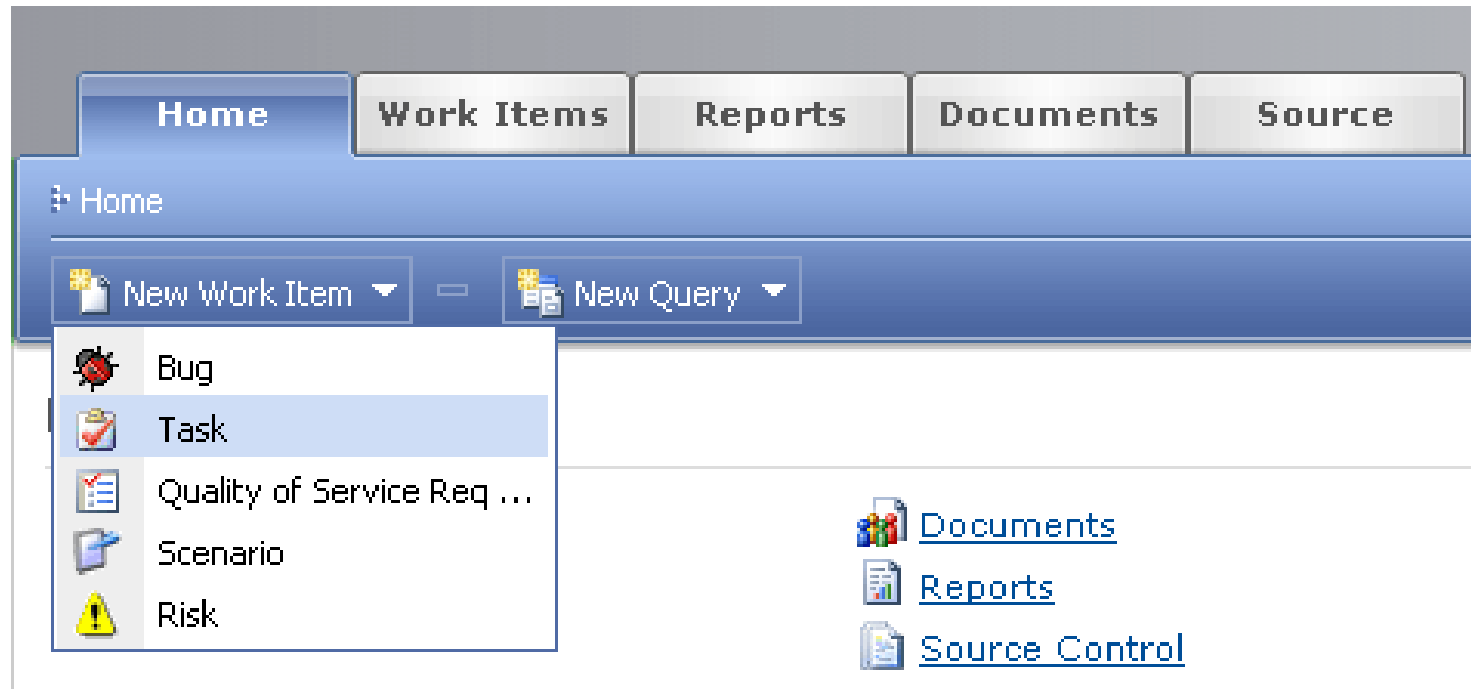
[1 Risk](#)

- 1 Active

My Latest Work Items

35	Bug	Closed	Typo on Welcome screen
2	Task	Closed	Set up: Migration of Source Code
1	Task	Closed	Set up: Set Permissions
34	Scenario	Active	Exporting the Customer List
33	Risk	Active	Unmanaged Code Usage

TeamPlain Web Access for Team System Version 1.0 Build 2276 by devBiz Business Solutions



The screenshot displays the TeamPlain web interface for editing a TFS work item. The top navigation bar includes 'Home', 'Work Items', 'Reports', 'Documents', and 'Source'. The user is logged in as 'John @ vstsdemo'. The current work item is 'Bug #35: Typo on Welcome screen' in the 'Northwind' project. The work item details are as follows:

- Title:** Typo on Welcome screen
- Classification:** Area: Northwind, Iteration: Northwind\Iteration 1
- Status:** Assigned to: John Doe, State: Closed, Triage: Approved, Rank: 3, Reason: Fixed, Priority: 1

The 'History' tab is active, showing a sequence of status changes:

```
graph LR; A[New] --> B[Active]; B -- Fixed --> C[Resolved]; C -- Fixed --> D[Closed];
```

The history entry for the transition from Resolved to Closed is: 3/26/2006 6:06:59 PM, Edited (Resolved to Closed) by John Doe.

The screenshot shows the TFS Query Editor interface. The top navigation bar includes 'Home', 'Work Items', 'Reports', 'Documents', and 'Source'. The user is logged in as 'John @ vstsdemo'. The current project is 'Northwind'. The breadcrumb path is 'Home \ Team Queries \ Project Checklist'. The main area is titled 'Query Editor - Project Checklist' and shows the query configuration. The query name is 'Project Checklist' and the type is 'Team Queries'. The description field is empty. Below the description are tabs for 'Filters', 'Display Fields', and 'Sort Fields'. The 'Filters' tab is active, showing a table of filters:

	And/Or	Field	Operator	Value
<input type="checkbox"/>		Team Project	=	@Project
<input type="checkbox"/>	And	Exit Criteria	=	Yes
<input type="checkbox"/>	And	State	<>	Closed

Below the filter table is a '+ Click to add a new filter' button. At the bottom, the 'Results' section shows a table of work items:

ID	Work Item ...	Discipline	State	Assigned To	Title
3	Task		Active	John Doe	Set up: Migration of Work Items
4	Task		Active	John Doe	Set up: Set Check-in Policies
5	Task		Active	John Doe	Set up: Configure Build

TFS Work Item Query Results

teamplain
Web Access for Team System

Home Work Items Reports Documents Source

John @ vstsdemo (signout)

Project: Northwind

Home \ Team Queries \ All Work Items

Edit Query New Work Item Add To Favorites Report View

Go #

search

Favorites MORE >

- Bug Rates
- Active Bugs

My Queries MORE >

- Important Tasks
- Work Done Today

Team Queries MORE >

- All Work Items
- Active Bugs
- All Issues
- All Quality of Service Req...
- All Scenarios

Reports MORE >

- Bug Rates
- Builds
- Project Velocity
- Work Item with TestResults
- Regressions

All Work Items (17 results)

ID	Work Item ...	Rank	State	Assigned To	Title
31	Bug		Resolved	John Doe	Print Preview window displays a blank p...
32	Bug		Active	John Doe	Connection Timeout
33	Risk		Active	John Doe	Unmanaged Code Usage
34	Scenario		Active	John Doe	Exporting the Customer List
3	Task		Active	John Doe	Set up: Migration of Work Items
4	Task		Active	John Doe	Set up: Set Check-in Policies
5	Task		Active	John Doe	Set up: Configure Build
	All Team Queries		Active	John Doe	Set up: Send Mail to Users for Installatio
	New Team Query		Active	John Doe	Create Vision Statement
	Organize Team Queries		Active	John Doe	Set up: Create Project Description on Te
	Active Bugs		Active	John Doe	Create Personas
	All Issues		Active	John Doe	Define Iteration Length
	All Quality of Service ...		Active	John Doe	Create Test Approach Worksheet includi
	All Scenarios		Active	John Doe	Brainstorm and Prioritize Scenarios List
	All Tasks		Active	John Doe	Brainstorm and Prioritize Quality of Serv

All Work Items

for Team System Version 1.0 Build 2276 by devBiz Business Solutions

The screenshot displays the TFS Search interface. On the left is a sidebar with a search box containing 'bug' and several categorized lists: Favorites (empty), My Queries (empty), Team Queries (Active Bugs, All Issues, All Quality of Service Req..., All Scenarios, All Tasks), and Reports (Tests Passing With Active ..., Builds, Load Test Detail, Quality Indicators, Bugs by Priority). The main content area is titled 'Search Results - bug' and features a left-hand navigation pane with 'Work Items (1)' and 'Reports (5)'. The 'Reports (5)' section is active, showing five search results:

- Bug Rates**
No Description
Path: /Adventure Works (CMMI)/Bug Rates - Modified: 4/17/2006 6:50 AM
- Bugs by Priority**
No Description
Path: /Adventure Works (CMMI)/Bugs by Priority - Modified: 4/17/2006 6:50 AM
- Bugs Found Without Corresponding Tests**
No Description
Path: /Adventure Works (CMMI)/Bugs Found Without Corresponding Tests - Modified: 4/17/2006 6:50 AM
- Tests Failing Without Active Bugs**
No Description
Path: /Adventure Works (CMMI)/Tests Failing Without Active Bugs - Modified: 4/17/2006 6:50 AM
- Tests Passing With Active Bugs**
No Description
Path: /Adventure Works (CMMI)/Tests Passing With Active Bugs - Modified: 4/17/2006 6:50 AM

teamplain
Web Access for Team System

Home | Work Items | Reports | Documents | Source

John @ vstsdemo (signout) | Home \ Reports \ Bug Rates | Settings | Help

Project: Northwind

search

Favorites
Active Bugs

My Queries
Important Tasks
Work Done Today

Team Queries
All Work Items
Active Bugs
All Issues
All Quality of Service Req...
All Scenarios

Reports
Bug Rates
Builds
Project Velocity
Work Item with TestResults
Regressions

Bug Rates

How effectively are we finding, fixing and closing bugs?

25

All Reports
Organize Reports
Actual Quality vs Plan ...
Bug Rates
Bugs by Priority
Bugs Found Without Cor ...
Builds
Load Test Detail
Load Test Summary
Project Velocity
Quality Indicators
Reactivations
Regressions
Related Work Items
Remaining Work
Scenario Details
Tests Failing Without ...
Tests Passing With Act ...
Unplanned Work
Work Item with Tasks
Work Item with TestRes ...
Work Items

Date	All Reports	Organize Reports	Actual Quality vs Plan ...
2/2/2006	14	11	3
5/3/2006	25	15	7
8/8/2006	6	3	0
11/2/2006	5	0	0
14/2/2006	5	0	0
17/2/2006	4	0	0
20/2/2006	4	0	0
23/2/2006	4	1	0
26/2/2006	9	4	2

The screenshot shows the TFS Source Control Browser interface. At the top, there are navigation tabs: Home, Work Items, Reports, Documents, and Source. Below the tabs is a breadcrumb path: Home \ Source Control. To the right of the path are 'Settings' and 'Help' dropdown menus, and a 'Go to Work Item #' field with a search icon.

The main content area displays the path `$/Northwind/src/Data` and a table of files and folders. The table has columns for Name, Pending Change, User, and Version. A context menu is open over the file `CachingMechanism.cs`, showing options: View, Download Latest, View History, and Find Changesets.

Name	Pending Change	User	Version
[..]			
Configuration			4
Instrumentation			4
Oracle			4
Properties			4
Sql			4
CachingMechanism.cs			4
ConnectionString.cs			4
Data.csproj			4
Data.csproj.vspssc			4
Database.cs			6
DatabaseConfigurationView.cs			4
DatabaseCustomFactory.cs			4

TFS Source Control Changeset Search



Set the criterias and click Find the get the cahngesets matching your criterias.

Containing File:

By User:

Range

All changes

Changeset number From: To:

Created date Between and

Changesets

Change	User	Date	Comment
<input type="radio"/> 6	VSTS\John	2/20/2006 3:15 PM	Added support for SQL Server 2005
<input type="radio"/> 5	VSTS\John	2/20/2006 3:14 PM	Refactored constructors
<input type="radio"/> 4	VSTS\John	2/20/2006 3:08 PM	Initial Import

TFS Source Control Changeset Viewer



teamplain

Web Access for Team System

Changeset #: 4

By User: John

Created On: 2/20/2006 3:08 PM



Source Files



Work Items









Check-in Notes



Policy Warnings

Comment:

Initial Import

Name	Change	Folder
 src	Add, Encoding	\$/Northwind
 Caching	Add, Encoding	\$/Northwind/Src
 BackgroundScheduler.cs	Add, Edit, Encoding	\$/Northwind/Src/Caching
 BackingStoreCustomFactory.cs	Add, Edit, Encoding	\$/Northwind/Src/Caching
 BackingStoreImplementations	Add, Encoding	\$/Northwind/Src/Caching
 BaseBackingStore.cs	Add, Edit, Encoding	\$/Northwind/Src/Caching/BackingStoreImplementations

- It beats the MS SharePoint web portal in every aspect, from performance to UI, from UI to features... the SharePoint web portal looks pretty much useless compare to TeamPlain Web Access.

- Unnecessary fields ✓
- Data in combos ✓
- Getting bugs from Outlook ✓
- Responding with history ✓
- The Reports ✓

1. History of Bug Systems
2. Exploring VSTS / TFS (a tour)
3. What's wrong with VSTS for me
4. The Education
 - What you can customize
5. The Solution
 - including 3rd Parties



Source Control great – miles faster with bulk check outs

Works Items are a good offering for developers

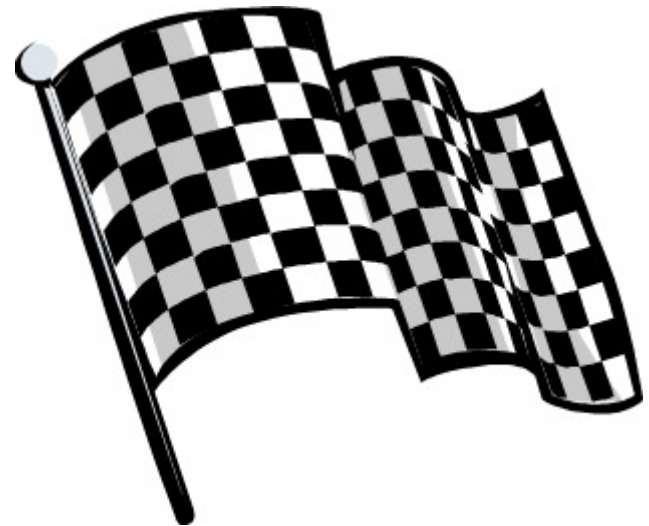
The whole thing brings developers and project managers

Great to see unit tests visible to managers

The SharePoint web portal is pretty much useless

- Work Items and Emails
 - via SSW Extreme Emails
 - Linked via WorkItemID
- Attaching .diff
- TFSDeleteProject.exe
- Reports on Work Items +
 - Reports on Exchange Server
- Working out the important metrics

45. Do you use positive reinforcement?



- HTML in Description
- Alerts should include the history (like an email)
- Customize the Work Item UI in VS.NET
- A full OWA like Portal
- Timesheet Functionality
- UI for TFSDeleteProject.exe
- www.ssw.com.au/SSW/Standards/BetterSoftwareSuggestions/TeamFoundationServer.aspx

- Home page for Visual Studio Extensibility
<http://msdn.microsoft.com/vstudio/extend/customize/>
- The Visual Studio SDK (includes Team System SDK) is available at
- <https://affiliate.vsiptmembers.com/affiliate/downloadFiles.aspx> (requires registration)

2 things

adamcogan@ssw.com.au





.NET is Cool