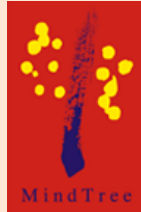


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Randy Williams

Synergy Corporate Technologies

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# USING VISUAL STUDIO 2010 TO BUILD SHAREPOINT 2010 SOLUTIONS



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## DAY 2 – VENDOR SESSIONS

- 12:55-1:20
  - Nintex – Ballroom 1
  - AvePoint – Ballroom 2
- 3:45 – 4:15
  - Kodak – Ballroom 1
  - Quest – Ballroom 2



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# CLOSING SESSION - CHANGE IN AGENDA

- GRAND BALLROOM – 5pm
- Prize giveaway
- Complete your evaluation forms and drop to Global 360 Booth
  - Be in to win!!

# ABOUT ME

- Regional Manager for Synergy Corporate Technologies
  - Based in Singapore
- Consultant/Trainer/Author
- SharePoint MVP
- SharePointPROs.SG User Group



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# AGENDA

**SharePoint Developer  
Platform**

**Visual Studio Templates**

**Solutions and Features**

**Debugging and Add-ins**



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# SHAREPOINT PLATFORM AND PRODUCT

## Microsoft Product



## Your Product

{your solution here}

## Built on / Built with

Web Portal UI  
Document Library  
SharePoint Foundation 2010  
User Self Service  
BCS Data Integration

SharePoint Designer  
Contextual Ribbon  
Sites and Lists  
Claims Authentication  
Human Workflow



Wiki Pages  
Web Parts  
Authorization UI  
Comprehensive SDK

## Base Platform

.NET Framework 3.5

ASP.NET

Windows Workflow  
Foundation

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# DEVELOPMENT REQUIREMENTS

- Requires x64 operating system
  - Windows 7
  - Windows Vista SP1
  - Windows Server 2008
  - Windows Server 2008R2
- SharePoint 2010 must be installed locally
  - Foundation or Server
- Visual Studio 2010



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# VS TEMPLATES AND DESIGNERS

- Project and Item Templates
  - Templates for many SharePoint elements
  - Support for sandboxed solutions
- Visual Designers
  - Design web parts
  - Build Business Data Connectivity (BDC) models
  - Create Workflows
- Workflow Enhancements
  - Site level workflows
  - Templates for association & initiation forms



# PROJECT TEMPLATES

The screenshot shows the Visual Studio project templates window. The left pane is titled 'Recent Templates' and 'Installed Templates'. Under 'Installed Templates', the 'SharePoint' category is expanded to show '2010' selected. The right pane shows a list of templates for '.NET Framework 3.5' sorted by 'Default'. The templates are:


Template Name	Visual C#
Empty SharePoint Project	Visual C#
Visual Web Part	Visual C#
Sequential Workflow	Visual C#
State Machine Workflow	Visual C#
Business Data Connectivity Model	Visual C#
Event Receiver	Visual C#
List Definition	Visual C#
Content Type	Visual C#
Module	Visual C#
Site Definition	Visual C#
Import Reusable Workflow	Visual C#
Import SharePoint Solution Package	Visual C#

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# PROJECT WIZARD

SharePoint Customization Wizard

 Specify the site and security level for debugging

What local site do you want to use for debugging?

What is the trust level for this SharePoint solution?

**Deploy as a sandboxed solution**

Clicking this option causes the solution to be deployed as a Sandboxed solution. Sandboxed solutions can be deployed by the site collection owner and are run in a secure, monitored process that has limited resource access.

**Deploy as a farm solution**

Clicking this option means that users must have SharePoint administrator privileges to run or deploy the solution.

[Learn more about sandboxed solutions](#)

Site used to deploy & debug solution

Support for sandboxed solutions

# ITEM TEMPLATES


















**Add New Item - WorkflowProject**

**Installed Templates**

- Visual C#
  - Code
  - Data
  - General
  - Web
  - Windows Forms
  - WPF
  - Reporting
  - SharePoint
    - 2010
    - Workflow

**Online Templates**

Sort by: Default

	Visual Web Part	Visual C#
	Web Part	Visual C#
	Sequential Workflow	Visual C#
	State Machine Workflow	Visual C#
	Workflow Association Form	Visual C#
	Workflow Initiation Form	Visual C#
	Business Data Connectivity Model	Visual C#
	Business Data Connectivity Resource Item	Visual C#
	Application Page	Visual C#
	Event Receiver	Visual C#
	Module	Visual C#
	Content Type	Visual C#
	List Definition From Content Type	Visual C#
	List Definition	Visual C#
	List Instance	Visual C#
	Empty Element	Visual C#
	User Control	Visual C#

# SANDBOXED SOLUTIONS



## Essential Agility

- Simple development model
- Easy & Rapid Deployment
- SharePoint Online

## Essential Stability

- Limited API Access
- Monitored Resources
- Site Collection Quotas
- Separate Process

# CREATING A VISUAL WEB PART



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# VS SHAREPOINT PROJECTS

- Project commands
  - Package, Retract
- Project properties
  - Sandboxed, Site URL
- Features & Package nodes
- Mapped folders
- Project items & files have SharePoint specific properties

The screenshot shows the Visual Studio Solution Explorer for a project named 'BIWebParts'. The project structure includes folders for Properties, References, Features, WebParts, Package, BdcModel1, EventReceiver1, Layouts, and BIWebParts. The BIWebParts folder contains files like CustomError.aspx, VisualWebPart1, and key.snk. Below the Solution Explorer is the Properties window for the 'BIWebParts' project, showing various project properties.

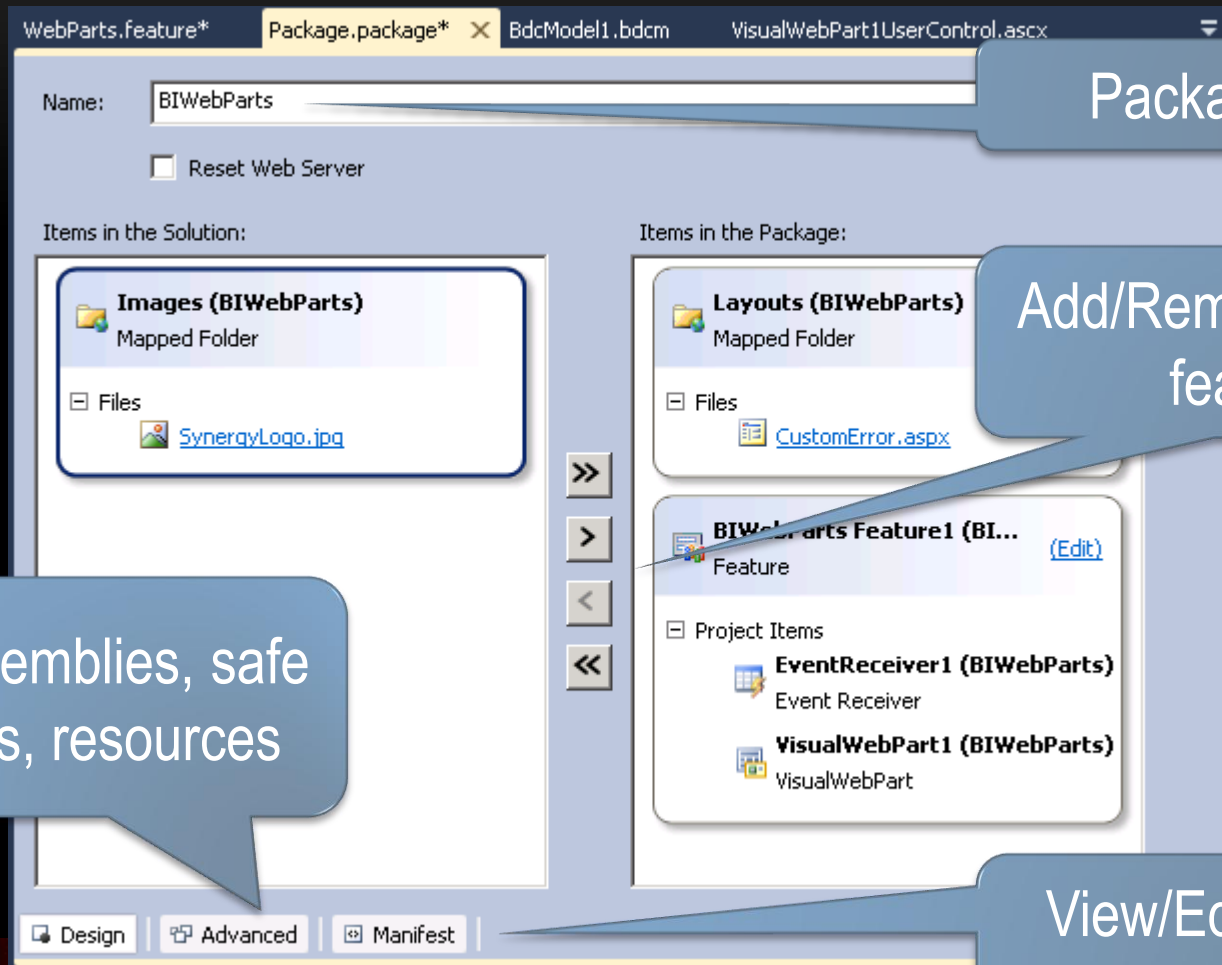
BIWebParts Project Properties	
Active Deployment Configuration	Default
Assembly Deployment Target	GlobalAssemblyCache
Include Assembly In Package	True
Project File	BIWebParts.csproj
Project Folder	c:\users\administrator\documents
Sandboxed Solution	False
Site URL	<a href="http://portal.synergy.com/">http://portal.synergy.com/</a>
Startup Item	(none)

# WHAT ARE SOLUTION (WSP) PACKAGES?



- Used to Deploy Code
- Contains all customised files and deployment instructions
- WSP extension
  - Internally a cabinet file
- Created by Visual Studio
- Farm or Sandboxed

# PACKAGE DESIGNER



Package name

Add/Remove items & features

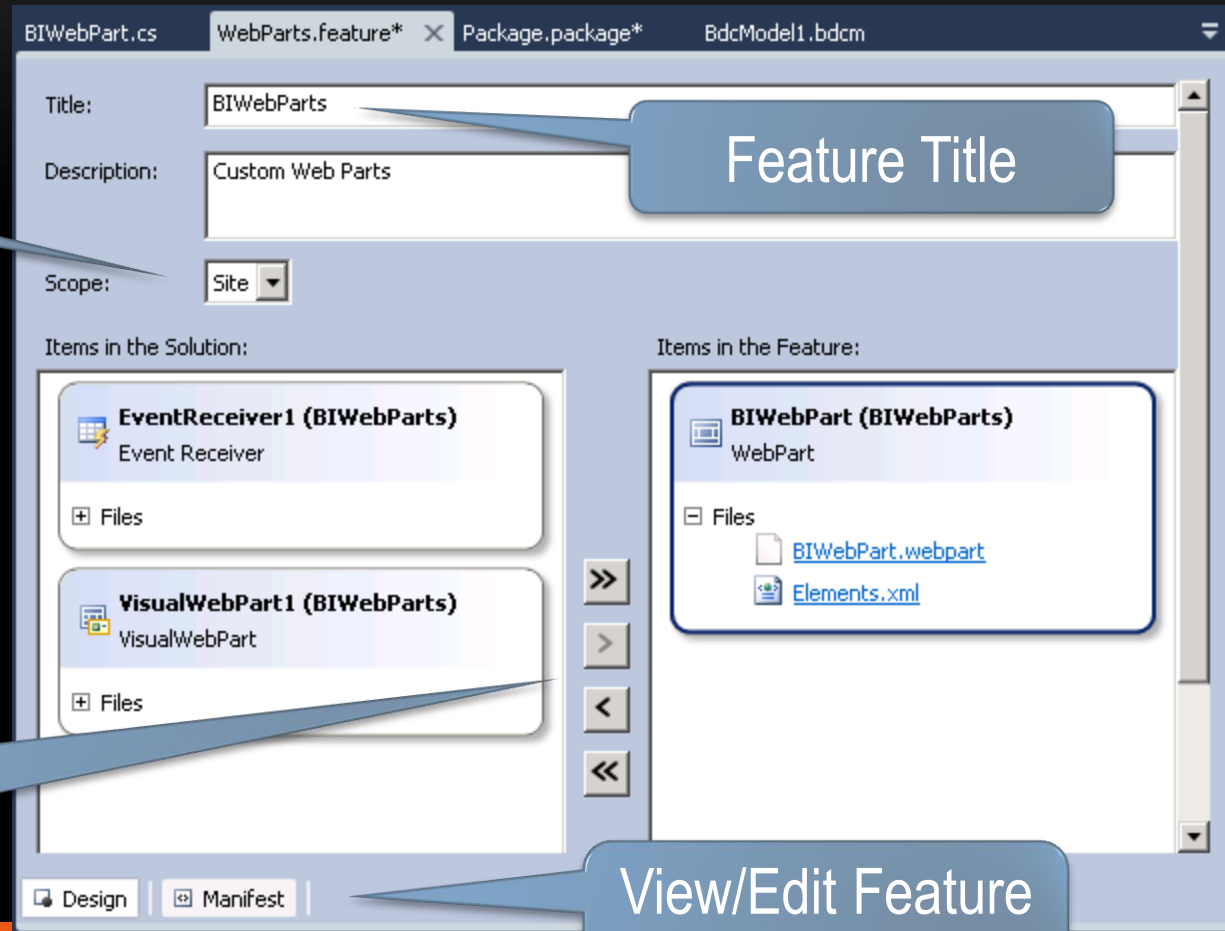
Add assemblies, safe controls, resources

View/Edit Package Manifest

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# FEATURE DESIGNER



Feature Scope

Feature Title

Add/Remove items

View/Edit Feature Manifest

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# WORKING WITH FEATURES AND SOLUTIONS



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# VISUAL STUDIO DEBUGGING

- F5 Experience
- Web.config changes
- Can still attach to W3WP.exe process
- Developer Dashboard
  - stsadm -o setproperty  
-pn developer-dashboard -pv ondemand



# SHAREPOINT MANAGER

- Extends the concept of the Server Explorer
- Many properties can be changed
- Separate Windows Application
- Must be run on SharePoint Server
- Do not run against production server!
- Download from [spm.codeplex.com](http://spm.codeplex.com)

# CKSDEV

- Community Kit fro SharePoint Development
- Extends Visual Studio Project System
- Just a sample of the add-ins...
  - Automate call to SPMetal from Server Explorer
  - Adding SharePoint references
  - Quick Deploy
- Download from [cksdev.codeplex.com](http://cksdev.codeplex.com)



# DEBUGGING AND ADD-INS



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QUESTIONS?

PLEASE REMEMBER TO FILL OUT  
YOUR EVALUATION FORMS



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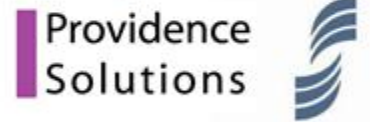
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