

ENABLING NEXT GENERATION AGILE, ADAPTIVE AND PROCESS-MANAGED ENTERPRISE

Getting Started Tutorial For ASP.NET Developers

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Introduction

ASP.NET is a Web application framework developed and marketed by Microsoft to allow programmers to build dynamic Web sites, Web applications and Web services. It was first released in January 2002 with version 1.0 of the .NET Framework, and is the successor to Microsoft's Active Server Pages (ASP) technology. ASP.NET is built on the Common Language Runtime (CLR), allowing programmers to write ASP.NET code using any supported .NET language.

ASP.NET is one of the out of the box supported form technologies. AgilePoint leverages ASP.NET framework to deliver enterprise level BPM solution. AgilePoint provides its own web site template, which makes necessary infrastructure available to use in association with ASP.NET.

This document explains step by step process to create simple ASP.Net web site which uses AgilePoint process model.

Create ASP.NET Web Site

This section explains the steps required to create an AgilePoint enabled ASP.Net web site for Windows based on the process model designed in "Process Designer" guide. The first step submits the IT equipment request, and the second manual step deals with Manger Approval. Once the request is approved by manager, it is sent to IT group to fulfill the request. Let's create an ASP.Net web site using AgilePoint Developer component.



Picture: Process Design for IT Equipment

- 1. Launch Visual Studio.
- 2. Click on File->New->Web Site... from the menu bar.

File	Edit	View	Website	Build	Debug	Team	Data	F	ormat	Table	Tools	VMware	Test	Analyze	V
	New						•	i,	Proje	ct			Ctrl	+Shift+N	
	Open						•	0	Web S	Site			Shif	t+Alt+N	
	Add						•	6	Team	Project.					
	Close							b	File				Ctrl	+N	
đ	Close	Solutio	n						Proje	ct From	Existing	Code			
	Save S	Submit	Request.as	рх	Ctr	I+S		_							
	Save S	Submit	Request.as	px As											
1	Save /	All			Ctr	l+Shift+	s								
	Export	t Temp	late												
	Sourc	e Cont	rol				- F								
2	View i	n Brow	ser							o o to o t D l		- 2 (Custan)	√div∟		
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	Page	Setup									vve	D FOI			
8	Print.				Ctr	I+P									aa
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	Recen	nt Proje	cts and Sol	utions			+								
	Exit				Alt	+ F4									

Picture: Creating ASP.Net Web Site

3. Select Visual C# templates in the left hand panel. Please make sure you have selected .Net Framework 3.5 as shown in screenshot below. Then select "AgilePoint Web Application" project template. Enter name of the web application as "ITEquipmentRequestApp". Click "OK" button.



Picture: Creation of AgilePoint web application using AgilePoint Developer

4. AgilePoint BPM Web Application Wizard starts and asks for Process Template file, which is nothing but the Visio process file. Browse to "ITRequest.vsd" file created following the "Process Designer" guide by clicking on "Browse" button. The check box "Add WebPart to the AgilePoint Web Application" is already selected. Do not select other check box to "Add Mobile Pages to the AgilePoint Web Application" as we are not covering that part in this guide. Click "Finish" button. It takes a minute (depending on how complex the process is) to generate the web site solution.



Picture: AgilePoint BPM Web Application Wizard

- 5. Let's have a closer look at Solution explorer and see what things are created automatically:
 - ASPX files for all manual shapes in the process template. The name of the ASPX file is the value of "WorkToPerform" of the manual shape. E.g. SubmitRequest.aspx, ManagerApproval.aspx, and ITFulfillment.aspx. These would act as a UI for performing the manual tasks in the workflow. These are the pages where you would add your process specific code. The rest of the pages are general process administration pages and already have the required code.
 - 2. Pages to show AgilePoint Task List WebPart, Process Instance List WebPart, Process Viewer, log on page, log off page, etc. are created under "AgilePoint" folder.
 - 3. Pages to perform AgilePoint action items like Cancel Process, Cancel WorkItem, Complete WorkItem, Reassign Task, etc. are created under "AgilePoint_layouts" folder.
 - 4. Required resource files for multiple languages and image files.





6. Since this is the first time you are using AgilePoint Website template in Visual studio, let's add AgilePoint controls on the Visual Studio toolbox. AgilePoint provides some very useful ASP.Net controls with data binding feature which can help you design your ASP.Net applications quickly. However you can also decide to use any third-party controls like any other regular ASP.Net application. However for this exercise we would use AgilePoint controls. Open Toolbox, right click and select "Add Tab" option.

*	Toolbox		-	÷Χ			
ŝ	🗉 Standard						
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			Rename Item				
		1	List View				
			Show All				
			Choose Items				
	Sort Items Alphabetically						
			Reset Toolbox				
			Add Tab				
			Move Up				
			Move Down				
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7. Name the tab as "AgilePoint".

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	HTML HTM
	🖃 AgilePoint
	There are no usable controls in this group. Drag an item onto this text to add it to the toolbox.
	🖃 General
	There are no usable controls in this group. Drag an item onto this text to add it to the toolbox.

8. Right-click inside "AgilePoint" toolbox blank area and select "Choose Items..."

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	There are no usab		Choose Items	
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			Rename Tab	
			Move Up	
			Move Down	

 Click the Browse button, go to folder "C:\Program Files (x86)\AgilePoint\AgilePoint Developer\Assembly" and select the dll "Ascentn.Workflow.WebControls.dll", and click OK.

Silverlight Components	System.	Workflow Components	1 9	ystem.Activities	Components	
.NET Framework Comp	onents	COM Compone	nts	WPF Cor	nponents	
Name	Namespace		Assembly	Name	Directory	
AccessDataSource	System.Web	.UI.WebControls	System.W	/eb	Global Ass	
Accordion	AjaxControl1	oolkit	AjaxConti	rolToolkit (3.0	Global Ass	
AccordionPane	AjaxControl1	oolkit	AjaxConti	rolToolkit (3.0	Global Ass	
ActionsPane	Microsoft.Of	fice.Tools	Microsoft.	Office.Tools	Global Ass	
Activity	System.Worl	flow.ComponentM	System.W	/orkflow.Com	Global Ass	
AdminService	Ascentn.Wor	kflow.Base	Ascentn.\	Workflow.We	Global Ass	
ADODC	Microsoft.Vis	ualBasic.Compatibi	Microsoft.	VisualBasic.C	Global Ass	
ADODCArray	Microsoft.Vis	ualBasic.Compatibi	Microsoft.	VisualBasic.C	Global Ass	
AdRotator	System.Web	.UI.MobileControls	System.W	/eb.Mobile	Global Ass	
✓ AdRotator	System.Web	.UI.WebControls	System.W	/eb	Global Ass .	
न् ः ः ः						
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AccessDataSource						
Language: Invariant Language (Invariant Country)						
				1		

10. Select the check box of all selected items, and click OK to add those controls in AgilePoint toolbox. You can also sort the controls by namespace "Ascentn.Workflow.WebControls" and make sure all controls in that namespace are checked before you click OK.

Silverlight Components	System.	Workflow Components	5	System.Activities	Components	
.NET Framework Compo	onents	COM Compone	ents	WPF Co	mponents	
lame	Namespace		Assembl	y Name	Directory	
ConfirmButton	Ascentn.Wo	rkflow.WebControls	Ascentn	.Workflow.We	C:\Progra	
Z DatePicker	Ascentn.Wo	rkflow.WebControls	Ascentri	.Workflow.We	C:\Progra	
MobileTaskListControl	Ascentn.Wo	rkflow.WebControls	Ascentri	.Workflow.We	C:\Progra	
Z TaskListControl	Ascentn.Wo	rkflow.WebControls	Ascentri	.Workflow.We	C:\Progra	
WFCheckBox	Ascentn.Wo	rkflow.WebControls	Ascentri	.Workflow.We	C:\Progra	
WFComment	Ascentn.Wo	rkflow.WebControls	Ascentri	.Workflow.We	C:\Progra	
WFDropDownList	Ascentn.Wo	rkflow.WebControls	Ascentri	.Workflow.We	C:\Progra	
WFFileAttachment	Ascentn.Wo	rkflow.WebControls	Ascentri	.Workflow.We	C:\Progra	
VFGridView	Ascentn.Wo	rkflow.WebControls	Ascentri	.Workflow.We	C:\Progra	
WFLabel	Ascentn.Wo	rkflow.WebControls	Ascentn	.Workflow.We	C:\Progra	
I						
ter:					⊆lear	
ConfirmButton						

i P	Toolbox		▼ -12
Ser	WebF	Parts	
ver I	⊞ AJAX	Extensions	
ž,	🗄 Dynai	mic Data	
orer	⊞ Repor	rting	
%	⊞ HTML		
ġ		Point	
	7		
×		WFFileAttachment	
	•	WFRadioButton	
	= 0	WFDropDownList	
	×	WFGridView	
	۵.	ConfirmButton	
	÷	WFLabel	
	F	WFTaskGridControl	
	abl	WFTextBox	
	格	WFProcessTemplateDropDownList	
	ē	TaskListControl	
	204	WFComment	
	:=	WFRadioButtonList	
		WFListBox	
	22	WFUserNameDropDownList	
		WFCheckBox	
	8-	WFRadioButtonPair	
	-2	WFUserNameListBox	
		DatePicker	
	4	WFProcessViewer	

- 11. Now you are ready to design your task specific pages.
- 12. Right-click **Default.aspx** and click on "Set as Start Page".
- 13. Open **SubmitRequest.aspx** page, and click on "**Design**" view at left bottom corner of the aspx page to open the design view of the page.
- 14. Drag and drop WFTextbox control from the AgilePoint toolbox on the page design area. Go to properties of the control and select BindingName property. Select the process template, "ITRequest" in your case when prompted to select the schema.

Toolbox ▼ ‡ ×	SubmitRequest.aspx* × Default.aspx		orer Pr	roperties	▼ -₽
▶ HTMI		MasterPage.master 🔚 🛃 🚑	🛛 🖂 🖾 🕯 🛛	WFTextBox1 Ascentn.Wo	orkflow.WebControls.WFT
▲ AgilePoint		Solution	'ITEquipmentRe	91 🗉 🥖 🖂	
Pointer		C.L.	\ITEquipmentRe	(Expressions)	
WFFileAttachment	AGILEPOINT		aguepoint	(ID)	WFTextBox1
 WFRadioButton 	A AGILEPOINT		resource	AccessKey	
WFDropDownList			AgilePoint.css	AutoCompleteType	None
WFGridView	Username : [blUserName] ContantDiscaHolder2 (Curtam) Select Scheme	Name	Footer.ascx	AutoPostBack	False
💁 ConfirmButton			Header.ascx	BackColor	
🎲 WFLabel	Home ap:wftextbox#WFTextBox1 a C		LogonForm.as	Bindingivame A	/
WFTaskGridControl	My Taske	Select Schema Name	ProcessViewer	BorderStyle	MotSet
abl WFTextBox			TasksPage.asp	BorderWidth	
ය. WFProcessTemplateDr	ITRequest		pp_Code	CausesValidation	False
TaskListControl			n	Columns	0
WFComment "			ocess Lemplate	CssClass	
WFRadioButtonList			nilePoint.License	DataType	String
WFListBox			efault.aspx	Enabled	True
28 WFUserNameDropDo			lobal.asax	Enable i neming	True
WFCheckBox			Fulfullment.asp>	Enableviewstate	lide
8 WFRadioButtonPair			anagerApproval	ForeColor	
WFUserNameListBox			asterrage.maste	Height	
DatePicker		V OK K Cancel	leb.config	MaxLength	0
WFProcessViewer			ebApplication.v	ReadOnly	False

Picture: UserID textbox binding with process model

15. Select the **UserID** element from the XPath wizard.

Select XPath from Attributes	x
Select XPath from Attributes	
Schema Process Attributes	
AgilePoint AgilePoint AgilePoint AgilePoint AgilePoint AgilePoint AgilePoint AgilePoint AgilePoint	
XPath: /pd:AgilePoint/pd:Requester/pd:UserID	
DataType: String	
🥪 OK 🔀 Cancel	

16. This maps newly added text box to UserID element of process model schema and any value you enter in the textbox would automatically get persisted in the workflow database. BindingName is the only property different than the regular ASP.Net Textbox control and that property makes integration/binding seamless without writing any code.



Note: Leverage HTML design experience to design the page as per the requirement.

17. The following table shows the details of what other control you need to use and what it the corresponding BindingName property value. The extra properties required to configure the control are shown in Extra Properties column. Design the page by dragging and dropping these controls on design surface and set the corresponding properties as shown below. Optionally you can create a table structure in the SubmitRequest.aspx file and drag and drop the control and set the BindingName and other required properties for better layout of the screen.

Sr.	Label	Control	Binding Name	Extra Property
No.				
1	User ID	WFTextBox	/pd:AgilePoint/pd:Requester/pd:UserID	
2	Date	DatePicker	/pd:AgilePoint/pd:Requester/pd:Date	
3	Full Name	WFTextBox	/pd:AgilePoint/pd:Requester/pd:FullName	
4	Title	WFTextBox	/pd:AgilePoint/pd:Requester/pd:Title	
5	Department	WFDropDownList	/pd:AgilePoint/pd:Requester/pd:Department	Items: Finance, HR, Marketing and Sales
6	Email Address	WFTextBox	/pd:AgilePoint/pd:Requester/pd:EmailID	
7	Computer Hardware	WFCheckBox	/pd:AgilePoint/pd:Requester/pd:ComputerHardware	
8	Computer Hardware Required	WFDropDownList	/pd:AgilePoint/pd:Requester/pd:HardwareName	Items: Monitor, Laptop, Desktop and Projector
9	Server	WFCheckBox	/pd:AgilePoint/pd:Requester/pd:Server	
10	Technical Specification	WFTextBox	/pd:AgilePoint/pd:Requester/pd:ServerSpecifcation	TextMode: MultiLine
11	Mobile Device	WFCheckBox	/pd:AgilePoint/pd:Requester/pd:MobileDevice	
12	Mobile	WFDropDownList	/pd:AgilePoint/pd:Requester/pd:DeviceName	Items: iPad,

	Equipment			Cell Phone
	Required			
13	Land Line	WFCheckBox	/pd:AgilePoint/pd:Requester/pd:LandlinePhone	
	Phone			
14	Requester's	WFTextBox	/pd:AgilePoint/pd:Requester/pd:RequesterComment	TextMode:
	Comments			MultiLine

18. After you configure the page, it will look like as shown below. Optionally you can add images, title and icons. These are regular ASP.Net features, and are not covered here

Web Form for	activity 'Submit'
User ID	Date
	4/10/2013
Full Name	
] Department	Email Address
Finanace	
Computer Hardware	
Computer Hardware Required	_
Monitor	
	td
Server Server	
Technical Specification	
▼	

Mohile Devices	
Mobile Equipment Required Mobile Equipment	
iPad	
Land Line Phone	

Requester's Comments	
▼	
	Submit

19. Once the design part is done, turn to code behind file. The Page_Load event method has some autogenerated code provided by AgilePoint component to save coding effort. Since SubmitRequest is the first page, process initialization needs to be done from the code of this page when user clicks Submit button. Change the code of SubmitRequest class as shown below. As you can see from code below, you just have to add a couple of extra lines of code and any UI logic like validation or conditionally enabling/disabling controls but rest of the data persistence logic is automatically handled for you using the data binding feature available in AgilePoint's ASP.Net framework

```
C# Code
```

```
public partial class SubmitRequest : Ascentn.Workflow.WebControls.WFWorkSheetPage
{
    protected void Page Load(object sender, EventArgs e)
    {
        if (!string.IsNullOrEmpty(Request.QueryString["WID"]))
              {
                     WFManualWorkItem workItem;
                     try
                     {
                           workItem =
GetAPI(Session).GetWorkItem(Request.QueryString["WID"]);
                     }
                     catch (Exception excp)
                     {
                            throw excp;
                     }
                     if (workItem != null &&
!workItem.UserID.Equals(HttpContext.Current.User.Identity.Name,
StringComparison.InvariantCultureIgnoreCase))
                     {
                            Response.Write("<script language='javascript'>alert('This task
is not assigned to you. Click OK to redirect to Tasks page.');
window.location.href='AgilePoint/TasksPage.aspx';</script>");
                     }
              }
       }
       protected void btnSubmit Click(object sender, System.EventArgs e)
```

```
{
    if (string.IsNullOrEmpty(Request.QueryString["WID"]))
    {
        string processModel =
System.Configuration.ConfigurationManager.AppSettings["ProcessModel"];
        base.CreateProcInst(processModel, processModel + "-" + UUID.GetID());
        Response.Redirect("AgilePoint/TasksPage.aspx", true);
        }
    else
        {
            base.CompleteWorkItem();
            Response.Redirect("AgilePoint/TasksPage.aspx", true);
        }
    }
}
```

Code: Page_Load and btnSubmit_Click event methods on SubmitRequest web page

20. Next Go to ManagerApproval.aspx page. We can reuse the design of SubmitRequest.aspx page to design ManagerApproval.aspx page. Copy the contents from SubmitRequest.aspx and paste it in ManagerApproval.aspx as show in images below.





21. Switch to the Design view of ManagerApproval.aspx page the page will look like this:



22. This is because missing Assembly directive for AgilePoint controls in ManagerApproval.aspx page. Add this line at the top in ManagerApproval.aspx page: « <a href="mailto:sembly="ascentn.workflow.webControls" » <a href="mailto:sembly="ascentn.workflow.webControls" »



Web Form for a	ictivity ' Manager Approval'
User ID	Date
	3/16/201
Full Name	Title
Department	Email Address
Finanace	
Computer Hardware Required Monitor	
Server	
Technical Specification	
-	

- 23. Make all the controls read only by setting either the ReadOnly property or Enabled property to False by right clicking on individual controls and going to their property panel.
- 24. Next we will add new controls required to perform work on manager approval screen. Add WFRadioButtonPair control and bind it to "/pd:AgilePoint/pd:Manager/pd:Approval" element from the schema. The page should look very similar to SubmitRequest page except additional approve/reject radio button.



Note: There is no need to add or change any code in the code behind file since required code is already generated for you unless you wanted to add any UI logic for formatting. As you can see the AgilePoint framework automatically handles the entire logic of loading the controls with values entered on the submit screen and also persists back any changes made on this page, back to the workflow database. This is possible because of the data binding feature. This data can be optionally captured in your custom database for reporting purpose without writing any code using AgilePoint data services feature. However in this simple exercise we will not use that feature.

25. Repeat the same steps to design ITFulfillment.aspx page and change the text on Submit button to "Complete".

User ID	Date
	4/15/2013
Full Name	Title
Department	Email Address
Finanace	
Computer Hardware	
- -	
E Server	
l echnical Specification	
☐ Mobile Devices	
Mobile Devices Mobile Equipment Required Mobile Equipment Required	
☐ Mobile Devices Mobile Equipment Required Mobile Equipment Required iPad	
Mobile Devices Mobile Equipment Required Mobile Equipment Required iPad	
Mobile Devices Mobile Equipment Required Mobile Equipment Required iPad	
Mobile Devices Mobile Equipment Required Mobile Equipment Required iPad	
Mobile Devices Mobile Equipment Required Mobile Equipment Required iPad Land Line Phone	
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Mobile Devices Mobile Equipment Required Mobile Equipment Required iPad Land Line Phone Requester's Comments td	

26. Open MasterPage.master. In a "Split View" of the page, select the link "Home", copy the corresponding and paste it just below it. Modify the value of the href attribute to "SubmitRequest.aspx" which is the page to create new request. Also change the text to "New IT Request".



27. Build the web application.

Running a deployed application

Special Notes:

1. If your AgilePoint Server is IIS version then specify your AgilePoint Server URL in "ServerUrl" node in appsettings. Also make sure "HostingMechanism" is set to "IIS".

P	Web.co	nfig ×	ITFulfullment.aspx	ManagerApproval.aspx	SubmitRequest.aspx	Default.aspx
Ser	ė	<sy< th=""><th>stem.web></th><th></th><th></th><th></th></sy<>	stem.web>			
Ver	Ē.	<	authorization>			
Y.			<allow <="" th="" users="*"><th>/></th><th></th><th></th></allow>	/>		
ě	_	<	/authorization>			
9	_	<th>ystem.web></th> <th></th> <th></th> <th></th>	ystem.web>			
×2	-	<th>ation></th> <th></th> <th></th> <th></th>	ation>			
7	Ē	<apps< th=""><th>ettings></th><th></th><th></th><th></th></apps<>	ettings>			
ĕ.		<ad< th=""><th>d key="ServerUrl"</th><th>value="http://localhog</th><th>st:7000/AgilePointSer</th><th>ver" /></th></ad<>	d key="ServerUrl"	value="http://localhog	st:7000/AgilePointSer	ver" />
ğ –		<ad< th=""><th>d key="ProcessAda</th><th>ptationUrl" value="<u>htt</u></th><th>p://localhost:7000/Er</th><th><pre>iterpriseManager/ProcessAdaptation/LinkedTasks.aspx" /></pre></th></ad<>	d key="ProcessAda	ptationUrl" value=" <u>htt</u>	p://localhost:7000/Er	<pre>iterpriseManager/ProcessAdaptation/LinkedTasks.aspx" /></pre>
		<ad< th=""><th>d key="WorkFlowBi</th><th>ndingUsed" value="WSHt</th><th>tpBinding_IWCFWorkflo</th><th>wService" /></th></ad<>	d key="WorkFlowBi	ndingUsed" value="WSHt	tpBinding_IWCFWorkflo	wService" />
		<ad< th=""><th>d key="EventServi</th><th>cesBindingUsed" value='</th><th>"WSHttpBinding_IWCFE</th><th>entServices" /></th></ad<>	d key="EventServi	cesBindingUsed" value='	"WSHttpBinding_IWCFE	entServices" />
		<ad< th=""><th><u>d kev="AdminBindi</u></th><th>ngUsed" value="WSHttpB:</th><th>inding_IWCFAdminServi</th><th>.ce" /></th></ad<>	<u>d kev="AdminBindi</u>	ngUsed" value="WSHttpB:	inding_IWCFAdminServi	.ce" />
		<ad< th=""><th>d key="HostingMec</th><th>hanism" value="IIS" /></th><th></th><th></th></ad<>	d key="HostingMec	hanism" value="IIS" />		
		<ad< th=""><th>d key="PageSize"</th><th>value="5" /></th><th></th><th></th></ad<>	d key="PageSize"	value="5" />		
		<ad< th=""><th>d key="ExcludedAp</th><th>plication" value="SPSI</th><th>ntegration;AgileForms</th><th>·" /></th></ad<>	d key="ExcludedAp	plication" value="SPSI	ntegration;AgileForms	·" />
		<ad< th=""><th>d key="ShowComple</th><th>teSelectedTask" value=</th><th>"false" /></th><th></th></ad<>	d key="ShowComple	teSelectedTask" value=	"false" />	
		<ad< th=""><th>d key="ProcessMod</th><th>el" value="ITRequest",</th><th>/></th><th></th></ad<>	d key="ProcessMod	el" value="ITRequest",	/>	
	-	<th>Settings></th> <th></th> <th></th> <th></th>	Settings>			

- 2. If your AgilePoint Server is WCF version then follow these steps:
 - a. Change "HostingMechanism" to "WCF".
 - b. Open AgilePointWindowsServiceClientUtilityTool.exe tool which will in AgilePoint Server's install location (C:\Program Files\AgilePoint\AgilePoint Server\SVCUtilityTool)
 - c. Specify THE AgilePoint Server URL. Click Browse to select the web.config file of our web site project.

AgilePoint Windows Service Client Utility Tool				
E Ag	ilePoint Windows Service Client Utility Tool			
Service address:	http://dopalhost-7000/agilepointeen/er			
Service address.				
	eg: http://Demo3:1002/AgilePointServer			
Target Config:	C:\Users\sanjay.aswale\Documents\Visual Studio 2010\WebSites\IT			
<u>Settings</u>	Senerate Close			

d. Click Generate. This will update the required binding information, url/port information in the web.config.

Now you are ready to run the application.

1. Click the green play button in the Visual Studio to start your application.

F	ile	Edit	View	Project	Build	Debug	Team	Data	Tools	VMware	Test	Analyze	Window	v Help
	ħ	- 🔛	- 凒	.	<u>ж</u> 🗈	B 9	- (°' -	- 🗐 -		Debug		- 🖄 🤉	getreleased	💀 😪 🖓 🐨
	混			<i>a</i> <u>a</u>	B, %.	≥ A≥ [1			Start Deb	ugging	y (F5) 🖁 着	▶ 🔍 🚽	💽 Install Web Components 🖕
	₿	😼 á	à 🎝	- II-	Ŧ		-					_		

3. Provide your credentials to log in to the application and click on Logon Button

Domain :	Demo3
User Name :	Bob.Hope
Password :	•••••
Copyright © 2	Logon 013 AgilePoint Inc. All Rights Reserved

4. After log in you will see a default page and a built-in process initiator functionality which we are not going to use. You can modify the default.aspx page to change the layout of this page.

Contraction for the second sec	437/ITEquipmentRequestApp ♀ 🗟 Ċ × 🧭 Master 🛛 🖌					
🗴 🍃 SnagIt 🔁 🛃	🗴 🦕 Snagit 🕎 📷					
👍 🧃 AgilePoint Intermediate Fi	🝃 🥭 AgilePoint Intermediate Fi 🧧 AgilePoint Documentation 🧧 Logon to AgilePoint Enter					
	NT MI					
Username : astn\sanjay.aswale						
<u>Home</u> <u>New IT Request</u> <u>My Tasks</u>	You have 2 Tasks Refresh Initiate Process Existing Process Templates: ADTest Process Name: Initiate Process					

5. Click "New IT Request" to create new request. Provide the information, and click Submit.

User ID	Date
121	3/21/2013
Full Name	Title
don	sales manager
Department	Email Address
Sales	 don@tusca.com
Computer Hardware	
Computer Hardware Required	
Monitor	•
Server	
Technical Specification	
	A
	w.
Mobile Devices	
Mobile Equipment Required	
Cell Phone	•
Land Line Phone	
Requester's Comments	
	A
	-
	Submit

6. This will take you to your task list page.



7. Click on the task link to show up available actions you can perform on the task.



8. Click on View Process to see the runtime visual



9. Click on the shape to see more information about it.



- 10. Next we will complete the manager approval task. Since in the initial process design we selected same user to be the participant of all 3 manual steps you do not need to log off. This can be changed to unique users or roles after you execute simple demo successfully.
- 11. Click on "**Open ManagerApproval**" to open the task. You can see all information entered while submitting new request is automatically available in approval screen. This is because of the Binding Name property on each control that ties the data between process and UI.

User ID	Date
121	3/21/2013
Full Name	Title
don	sales manager
Department	Email Address
Sales 🔻	don@tusca.com
Computer Hardware	
Computer Hardware Required	
Monitor 👻	
Server	
Technical Specification	
*	
Ŧ	
Mobile Devices	
Mobile Equipment Required	
Cell Phone	
Land Line Phone	
Requester's Comments	
A	
Approximation	ove 🔘 Reject

- 12. Select Approve radio button and click on Submit.
- 13. Navigate back to the task list and open the ITFulfullment task, and click Complete to finish the process.

Full Name		Title
don		sales manager
Department		Email Address
Sales		don@tusca.com
Computer Hardware		
Computer Hardware Required		
Monitor	-	
Server		
Technical Specification		
·	*	
	$\overline{\nabla}$	
✓ Mobile Devices		
Mobile Equipment Required		
Cell Phone	-	
Land Line Phone		
Requester's Comments		
	*	
	-	
·		
	Approx	ove 🖱 keject
		ma a lata
	0	mpiece

Advanced Scenarios

Include a repeating section using the WFGridView Control

Now that the simple ASP.Net web application exercise covered in previous section is successfully completed and executed, we will try to accomplish some advance scenario within that where we will introduce a repeating node in the schema and bind it to WFGridView control.



1. Click on View->Solution Explorer from the menu bar.

Picture: Open Solution explorer.

2. Double-click "**ITRequest.vsd**" from Solution Explorer. It will take you to AgilePoint Envision where you can modify your process design and schema.



3. Click on "Modify Schema" link in the property panel on right hand side.



4. Select "**Requester**" node by left click (do not select any node by right click). Then right click on selected node and click "Complex Type" option to add a category for ServerDetails information where user can add multiple server requirements. Name the newly created complex type as "ServerDetails".

XML Schema Editor XML Schema Editor XML Schema Editor Schema: Schema: <th><pre> lement name="AgilePoint"> complexType> xs:sequence> <xs:element name="Requester"> <xs:element name="Requester"> <xs:element name="Requester"> <xs:element name="UserID" type="xs:string"></xs:element> <xs:element name="Date" type="xs:string"></xs:element> <xs:element name="Title" type="xs:string"></xs:element> <xs:element name="Title" type="xs:string"></xs:element> <xs:element name="EmailID" type="xs:string"></xs:element> <xs:element name="ComputerHardware" type="xs:string"></xs:element> <xs:element name="KilID" type="xs:string"></xs:element> <xs:element name="EmailID" type="xs:string"></xs:element> <xs:element name="ComputerHardware" type="xs:string"></xs:element> <xs:element name="Server" type="xs:string"></xs:element> <xs:element name="NobileDevice" type="xs:string"></xs:element> <xs:element name="LandlinePhone" type="xs:string"></xs:element> <xs:element name="TrackingNumber" type="xs:string"></xs:element> </xs:element></xs:element></xs:element></pre></th>	<pre> lement name="AgilePoint"> complexType> xs:sequence> <xs:element name="Requester"> <xs:element name="Requester"> <xs:element name="Requester"> <xs:element name="UserID" type="xs:string"></xs:element> <xs:element name="Date" type="xs:string"></xs:element> <xs:element name="Title" type="xs:string"></xs:element> <xs:element name="Title" type="xs:string"></xs:element> <xs:element name="EmailID" type="xs:string"></xs:element> <xs:element name="ComputerHardware" type="xs:string"></xs:element> <xs:element name="KilID" type="xs:string"></xs:element> <xs:element name="EmailID" type="xs:string"></xs:element> <xs:element name="ComputerHardware" type="xs:string"></xs:element> <xs:element name="Server" type="xs:string"></xs:element> <xs:element name="NobileDevice" type="xs:string"></xs:element> <xs:element name="LandlinePhone" type="xs:string"></xs:element> <xs:element name="TrackingNumber" type="xs:string"></xs:element> </xs:element></xs:element></xs:element></pre>
Approval	<xs:element <="" name="TrackingNumber" td="" type="xs:string"></xs:element>
Select Type Simple Types:	A
Compile	🥪 OK 🔀 Cancel

Picture: "Create Schema" dialog box to add "ServerDetails" node

5. Once the node is added to the schema, it should appear in the schema tree structure as shown below



Picture: "ServerDetails" element after creation.

6. Next select the newly added "ServerDetails" node by left click to make it the active node (do not select any node by right click). Then right click on selected node and click "Complex Type" option to add a node for individual Server information. Name the newly created complex type "Server".



Picture: "Create Schema" dialog box to add "Server" node

7. Once the node is added to the schema, it should appear in the schema tree structure as shown below.



Picture: "Server" element after creation.

8. Make the "Server" node repeatable by adding minOccurs and maxOccurs XML properties in right hand side XML editor inside "Server" element. Have a look on below code.

<xs:element minOccurs="0" maxOccurs="unbounded" name="Server">

XML Schema Editor XML Schema Editor AgilePoint	nt name="Title" type="xs:string" />
Requester UserID Date FullName Title Department EmailD ScomputerHardware HardwareName Server ServerSpecification MobileDevice DeviceName LandlinePhone RequesterComment Server Server Approval	<pre>nt name= "EmailID" type="xs:string" /> nt name="ComputerHardware" type="xs:boolean" /> nt name="Server" type="xs:boolean" /> nt name="Server" type="xs:boolean" /> nt name="ServerSpecifcation" type="xs:string" /> nt name="DeviceName" type="xs:boolean" /> nt name="LandlinePhone" type="xs:boolean" /> nt name="RequesterComment" type="xs:string" /> nt name="TrackingNumber" type="xs:string" /> nt name="ServerDetails"> plexType> equence> :element minOccurs="0" maxOccurs="unbounded" name="Server"> xs:complexType> <xs:sequence></xs:sequence> /xs:complexType> s:element> sequence> </pre>
Select Type Simple Types: Global Types:	 ▼
Compile	🥪 OK 🔀 Cancel

Picture: "Create Schema" dialog box to add "Server" node and make repeatable.

9. Create an element called "ServerName". The default data type of an element is string. If required, the data type can be changed by selecting appropriate data type from the "Simple Types" drop down box at the left hand side panel towards bottom of the screen.



Picture: Creating "ServerName" element in AgilePoint Envision.

10. Repeat the action in previous step to create rest of the fields - RAM (string) and HDD (string) elements under "Server" category. Value in parenthesis indicates data type. Once this step is complete, your schema should show the new nodes as shown below.



Picture: Repeatable "Server" category to store Servers.

11. After schema creation please click compile button to check if it is a valid schema and then click on OK button as shown below.

HDD HDD Manager Mapproval	/xs:sequence> s:complexType> element>
Select Type Simple Types:	×
	Cancel

12. Now your updated process is ready to publish to AgilePoint Server. Before that click on "Validate Process" button in AgilePoint ribbon to check if there is no error in the process template and it is good to publish to server.



13. Click on Validate button.

Validate Process	×
Validate Process Model	
Progress:	
Press button 'Validate' to start process validation	4
	T
> 💛 Validate 🔀 Clos	e

14. Once process is validated successfully click the Close button.

Validate Process		×
Validate Process Model		
Progress:		
Validate successfully		A F
	💞 Validate 🔶 💥 Close	

15. Click on "Publish Process to Server" button from "AgilePoint" ribbon menu.



16. Click the "Publish Process to Server" button from the "AgilePoint" ribbon menu.

Connecting to Serv	er 📃 🔨
	cting to Server
Server Url:	http://localhost:8988/AgilePointServer
Logon as cu	urrent user (Ajit-PC\Administrator)
🔘 Logon as th	ne following user:
-User Information	·
Domain:	Demo3
Username:	Bob.Hope
Password:	****
	🥪 OK 🔀 Cancel

17. This will open up a dialog to provide your AgilePoint Service URL and credentials to connect to the server. Provide the information as shown below, and click OK.

Update Process Template
Update Server with Process Information
Process Template Name: ITRequest
Current Version: 1.0 New Version: 1.01
(dd.dd, eg. 10.02) Comment:
Release Option
Release Now
Second Cancel

- 18. Now save the process model in Visio and close AgilePoint Envision then go back to ASP.Net web application.
- 19. Open SubmitRequest.aspx. Drag and drop WFGridview control from the AgilePoint toolbox on the page design area next to the technical specification text area. Go to properties panel of the WFGridview control and provide ID as "gvServer" and then select BindingName property. Select the process template, "ITRequest" in your case when prompted to select the schema.



20. Select "ServerDetails" node from the schema tree. This step should generate GridView layout and html as shown in the picture below.

XPath

DataType:

/pd:AgilePoint/pd:Requester/pd:ServerDetails

💛 ок

DatePicker

There are no usable controls in this group. Drag an item onto this text to add it to the toolbox.

-

General

- 1 X

avServe

False

False

alse

NotSet

-1

True

True

Binding name of AgilePoint process template

(Collection)

adding

Enabled

Font

BindingName

🔀 Cancel

EnableTheming

EnableModelValidati False EnableSortingAndPa False

wStyle atingRo

olum True



The auto generated HTML code would look something like this.

```
<ap:WFGridView ID="gvServer" runat="server" AutoGenerateColumns="False"
AutoGenerateDeleteButton="True" AutoGenerateEditButton="True"
BindingName="/pd:AgilePoint/pd:Requester/pd:ServerDetails"
EnableModelValidation="True"
InnerXmlTemplate="PHBkOlNlcnZlcnMgeG1sbnM6cGQ9Imh0dHA6Ly93d3cuYXNjZW50b
```

<pre>i5jb20vYnBtL1hNTFNjaGVtYSI+PHBkOlNlcnZlck5hbWU+U3RyaW5nPC9wZDpTZXJ2ZXJC YW11PjxwZDpSQU0+U3RyaW5nPC9wZDpSQU0+PHBkOkhERD5TdHJpbmc8L3BkOkhERD48L3B kOlNlcnZlcnM+"></pre>
<columns></columns>
<pre><asp:boundfield datafield="pd:ServerName" headertext="ServerName"></asp:boundfield></pre>
<pre><asp:boundfield datafield="pd:RAM" headertext="RAM"></asp:boundfield></pre>
<pre><asp:boundfield datafield="pd:HDD" headertext="HDD"></asp:boundfield></pre>

21. Once **WFGridview** control has been added to the page and all settings are configured then provide title of the control as "**Server Details**" on top of the **WFGridview** control.

Home	Web For	m for	activity 'Subn	nit'	
<u>New IT Request</u>					
My Tasks	User ID		Date		
111 1000			4/5/2013		
	Full Name		Title		
	Department		Email Address		
	Finanace	•			
			8		
	Computer Hardware				
	Computer Hardware Required				
	Monitor	-			
	Server		Server Details		
	Technical Specification		ServerNam		HDD
			Edit Delete Databound	Databound	Databound
			Edit Delete Databound	Databound	Databound
			Edit Delete Databound	Databound	Databound
			Edit Delete Databound	Databound	Databound

22. Next add one ASP.Net button below the **WFGridView** control for generating an empty row in the **WFGridview** control. After adding the **WFGridView** Control, **Title** and **ASP.Net button** on page. The page would appear as below.

Home	Web Form for activity 'Submit'	
New IT Request		
	User ID	Date
<u>My Tasks</u>		4/5/2013
	Full Name	Title
	Department) Email Address
	Finanace	
	Computer Hardware	
	Computer Hardware Required	
	Monitor	
	□ Server	Server Details
	Technical Specification	ServerName RAM HDD
		Letit Delete Databound Databound Databound
		Edit Delete Databound Databound Databound
		Edit Delete Databound Databound Databound
		Edit Delete Databound Databound Databound
		Edit Delete Databound Databound Databound
		Add

23. When user clicks the "**Add**" button, it should create an empty row in the WFGridView control, so that user can add new Server record. Double-click the "Add" button to generate button click event method. Write the following code in the "Add" button click event method.

Note: The above code for WFGridView control is NOT using DataSource property and DataBind method to bind with data source, instead it is using AgilePoint custom property "RepeatingSectionDataSource" and custom method "BindRepeatingSectionDataSource". Making a call to this property/method would handle the entire data binding operation. Also, while creating a new row in data table, it's loading existing data source which is bound to the control and it automatically figures out the structure for the new record.

24. Once the design part is done, switch to the code behind file "**SubmitRequest.aspx.cs**". The Page_Load event method has some auto generated code provided by AgilePoint component to save some coding effort. Add the code below after the existing auto generated code in Page_Load method.

This step is needed only if the WFGridView control is used on a web form, which starts the AgilePoint process.

```
if (!IsPostBack)
{
    string serverXML = "<pd:ServerDetails
    xmlns:pd=\"http://www.ascentn.com/bpm/XMLSchema\"></pd:ServerDetai
    ls>";
    XmlTextReader xmlReader = new XmlTextReader(new
    StringReader(serverXML));
    XmlDocument xmlDocument = new XmlDocument();
    XmlNode node = xmlDocument.ReadNode(xmlReader);
    gvServer.SetBoundDataItem(node);
}
```

If you find any error regarding above metnioned code, like shown below.



Then, please add below mentioned namespace on top the page.





Note – Above code is for "Add" button and "Page_Load" event.

- 25. Next open "ManagerApproval.aspx" page and switch to Design view.
- 26. Drag and drop WFGridview control from the AgilePoint toolbox on the page design area. Go to properties of the control and provide ID as "gvServer" and then select BindingName property. Select the process template, "ITRequest" in your case when prompted to select the schema. Also make WFGridview control enabled as "False".

Web Form for activit	v ' Manager Approval'		
		(Expressions)	A
11 70	Dato	(ID)	gvServer
User ID	- te te te te	AccessKey	
J	4/5/2013	AllowPaging	False
Full Name	Title	AllowSorting	False
Denartment	- Fmail Address	ActoGenerateColumns	False
Finanaca		AutoGenerateDeleteButton	False
		AutoGenerateEditButton	False
		AutoGenerateSelectButton	False
Computer Hardware		BackColor	
Computer Hardware Required		BackImageUrl	
Monitor 💌	E .	BindingName	/pd:AgilePoint/pd:Requester/pd:ServerDetails
		BorderColor	
E Seguer		PorderStyle	NotSet
	ap:wfgridview#gvServer	BorderWidth	
l echnical Specification	ServerName RAM HDD	Caption	
	Databound Databound Databound	CaptionAlign	NotSet
	Databound Databound Databound	CellPadding	-1
	Databound Databound Databound	CellSpacing	0
	Databound Databound Databound	Columns	(Collection)
•	Databound Databound Databound	CssClass	
		EditIndex	-1
Mohile Devices		EditRowStyle	
Mabile Equipment Dequired		EmptyDataRowStyle	
Nobile Equipment Required		EmptyDataText	
	<u>.</u>	Enabled	False
		EnableModelValidation	False
🗖 Land Line Phone		EnableSortingAndPagingCallbacks	False
	3	EnableTheming	True

27. Once **WFGridview** control has been added to the page and all settings are configured then provide title of the control as "**Server Details**" on top of the **WFGridview** control. The page would be look like below

User ID	Date			
	4/5/2013			
Full Name	Title			
Department	Email Address	l Email Address		
Finanace	<u> </u>			
Computer Hardware				
Monitor				
Server Server	Server Details			
Technical Specification	ServerName R/	M HDD		
	Databound Data	ound Databound		
	Databound Data	ound Databound		
	Databound Data	ound Databound		
	Databound Data	ound Databound		
	- Databound Data	ound Databound		

28. Repeat the same steps to add read-only WFGridView to "ITFulfillment.aspx" page.

lser ID	Date
	4/5/2013
ull Name	Title
epartment	l Email Address
Finanace	
Computer Hardware	
Computer Hardware Required	
Monitor	
Server	Server Details
echnical Specification	ServerName RAM HDD
	Databound Databound Databound
	 Databound Databound Databound
	■ Databound Databound Databound Databound Databound
Mobile Devices	

29. Build and run the web application. (Shown below.)

M ITEquipmentRequestApp - Microsoft Visual Studio (Administrator)			
File Edit View Project Build Debug Tools Test Window Help			
Toolhov → B → B → B → NET	- 🖄 wcf	🔹 💐 🚰 🧟 🏠 💽 📼 📮	- 1 ¥
General	Dight aliak a	a solution and	• • •
	select Rebu	uild Solution.	equestApp' (1 project)
There are no usable controls in this group. Data an item onto this text		D:\\ITEquipment	RequestApp 🛗 Build Solution
to add it to the toolbox.		🗈 🗠 🤛 AgilePoint	Rebuild Solution
		🖶 🔲 App_Code	Batch Build
		🖶 🛅 Process Templat	Configuration Manager
		🗈 – 🚞 resource	Add 🔸
		AgilePoint.Licen	se Set StartUp Projects
		🔤 🔊 Global.asax	Add Solution to Source Control
		🔤 ITEquipmentRec	uestApp.slr 👔 Paste
		ManagerApprov	al.aspx Rename
		🚛 🔽 MasterPage.mas	ter 📋 Open Folder in Windows Explorer
		SubmitRequest.	Aspx Properties
Once it's completed you will see below		Web.coning WebApplication	vsdisco
message in output window.			
Output		- I X	
Show output from: Build			
Building directory '/ITEquipmentRequestApp, gilePoint/'.			
Building directory '/ITEquipmentRequestApp . Building directory '/ITEquipmentRequestApp Process Templates/'			
Validation Complete ===================================		=	
		1	
Grove List Code Definition Window Couput Code Symbol Results		Properties 🛃 Solution Ex	piorer
Rebuild All succeeded			

Running Re-Build application

1. Click the green play button in the Visual Studio to start your application.



2. Provide your credentials to log in to the application and click on Logon Button

Domain :	Demo3
User Name :	Bob.Hope
Password :	•••••
	Logon
Copyright © 2	013 AgilePoint Inc. All Rights Reserved

3. After log in you will see a default page and an inbuilt process initiator functionality which we are not going to use it. So you can modify the default.aspx page to change the layout of this page.

+ Http://localhost:	2437/ITEquipmentRequestApp 🔎 – 🗟 😋 🗙 🌈 Master
氨 SnagIt 🔁 🛃	
AgilePoint Intermediate Fi	🔗 AgilePoint Documentation 🗿 Logon to AgilePoint Enter
	······································
	NE
AGILEPO	
A4 AGILEPO	
Username : astn\saniav.aswale	
obername i abar panja ji abinale	
Home	You have 2 Tasks
New IT Desweet	Refrech
<u>New 11 Request</u>	Keiresii
My Tasks	Initiate Process
	Existing Process Templates: ADTest
	Process Name:
	Initiate Process

4. Click on "New IT Request" to create new request. Provide the information and click submit.

Jser ID	Date
Ajite007	04/05/2013
Full Name	Title
Ajit Kumar Singh	Mr
Department	Email Address
Finanace	 ajit.kumar.singh@agilepoint.com
🗹 Computer Hardware	
Computer Hardware Required	
Monitor	▼
Server Server	Server Details
Technical Specification	
Server Configuration	ServerName RAM HDD
	Edit Delete Server 1 2 GB 250 GB
	Edit Delete Server 2 4 GB 500 GB
	Edit Delete Server 3 6 GB 750 GB
	*
	Add
Mobile Devices	
Mobile Equipment Required Mobile Equipment	Add Servers by clicking
iPad	
Requester's Comments	A
riease have a look.	
	v

NOTE: Instruction for adding rows in WFGridview control. Please see below.



5. After request submission, it will take you to your task list page where you would see a new task for Manager Approval.

My Ta	sks					
21	Global act	ions				
Drag	g a column	header here to group by that	column			
	Priority	Template Name	Process Name	Task	Status	Due Date
	*	ITRequest	ITRequest- E969F040FAEB44C4B32F07AAAAA7AFDA	ManagerApproval	Assigned	4/5/2013 7:51:00 PM
						1 of 1 Prev Next

6. Click on the task link to show up available actions you can perform on the task.

My Tas 20	sks Global act 1 a column	tions header here to group by th	at column		
	Priority	Template Name	Process Name		Task Status Due Date
	÷	ITRequest	ITRequest- E969F040FAEB44C4B32F07AAAAA7AFI	DA	ManagerApproval Assigned 4/5/2013 7:51:00 PM View Process 1 of 1 Prev Next Open ManagerApproval Cancel Task Cancel Task Cancel Process Cancel Process Cancel Process Task Rework Free Linked Work Item View Description View Description

- 7. Next we will complete the manager approval task. Since in the initial process design we selected same user to be the participant of all 3 manual steps, you do not need to log off. This can be changed to unique users or roles after you execute simple demo successfully.
- 8. Click on "**Open ManagerApproval**" to open the task. You can see all information entered while submitting new request is automatically available in approval screen. This is because of the Binding Name property on each control that ties the data between process and UI.

	*
User ID	Date
Ajte007	4/5/2013
Full Name	Title
Ajit Kumar Singn	Mr
Department	Email Address
	· ajic.kumar.singn@agilepoinc.com
Computer Hardware	
✓ Server	Server Details
Technical Specification	
Server Configuration	ServerName RAM HDD
	Server 1 2 GB 250 GB
	Server 2 4 GB 500 GB
	Server 3 0 GB / 50 GB
Mahila Daviesa	
Mobile Devices	ht st
Required	
iPad	v
✓ Land Line Phone	
Requester's Comments	
Please have a look.	A

- 9. Select the Approve radio button, and click on Submit.
- 10. Navigate back to task list, open the ITFulfillment task, and from ITFulfillment page click the Complete button to finish the process.

Agile	ePoint Task Lis	t						
2	Global actio	ons						
Dr	ag a column h	neader here to group b	y that column					
	Priority V	Template Name 🖓	Process Name 🛛	Tas	k 🛛	Status 🛛	Due	e Date 🔻
		ITRequest	ITRequest- 9D71349E3A4D4EB59C09F97F67EE3D6A	ΠF	ulfullment	Assigned	4/6/	/2013 25:00 AM
				Ľ∳.	View Pro	ocess		Prev Next
				2	Open IT	Fulfullment	:	
				\mathbf{x}	Cancel 1	Fask		
				Ľ	Reassig	n Task		
				3	Cancel F	Process		
				4	Task Re	work		
				53	Create I Item	Linked Wor	k	
			Copyright © 2013 AgilePoint	1	View De	scription		

Licor ID		Date			
Aite007		4/5/2013			
Full Name		Title			
Aiit Kumar Singh		Mr			
Denartment		Email Address			
Finanace	Ŧ	ajit.kumar.si	ngh@agilepoin	nt.com	
Computer Hardware			2 2 3 , 24		
Server		Server Details			
Server Configuration					
Server configuration		ServerNar	ne RAM HD		
		Server 1	2 GB 250 0	GB	
		Server 3	6 GB 750	GB	
	-		10 00 1000		
Mohile Devices					
Mobile Equipment Required Mobile Equ	ipment				
Required					
iPad	Ψ.				
✓ Land Line Phone					
Requester's Comments					
Please have a look.	*				

Summary

ASP.NET development with AgilePoint process is similar to the traditional web development except lot less coding efforts. AgilePoint Envision has provided "Generic" process template for ASP.Net and any other third party form technology. The Generic process template has schema to be defined, which can be used seamlessly for integration with ASP.Net web site using BindingName property on AgilePoint controls. This minimizes lots of plumbing required to make process workflow work. Also, concept of sub process makes cross form technology work together and provides the reusability of process across the server/farm.