Microsoft® Virtual Labs

Module 1: Getting Started

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AdventureWorks Module 1: Getting Started

Objectives

After completing this lab, you will be better able to:

- Deploy a web part using the Visual Studio extensions
- Explore Adventure Works using SharePoint Designer 2007

Scenario

The purpose of this lab is to introduce you to the Adventure Works site, where you will explore some common interface elements used throughout the site such as login/registration controls and search. You will also explore Central Administration in order to gain an understanding as to how the site is configured.

You will then use the Visual Studio Extensions for Windows SharePoint Services v1.2 to deploy a custom web part to the Adventure Works site.

Estimated Time to Complete This Lab

60 Minutes

Computers used in this Lab

 Image014-5

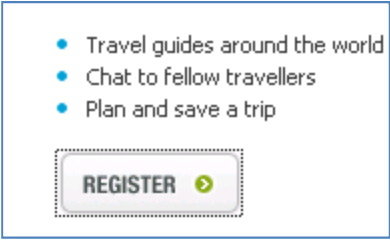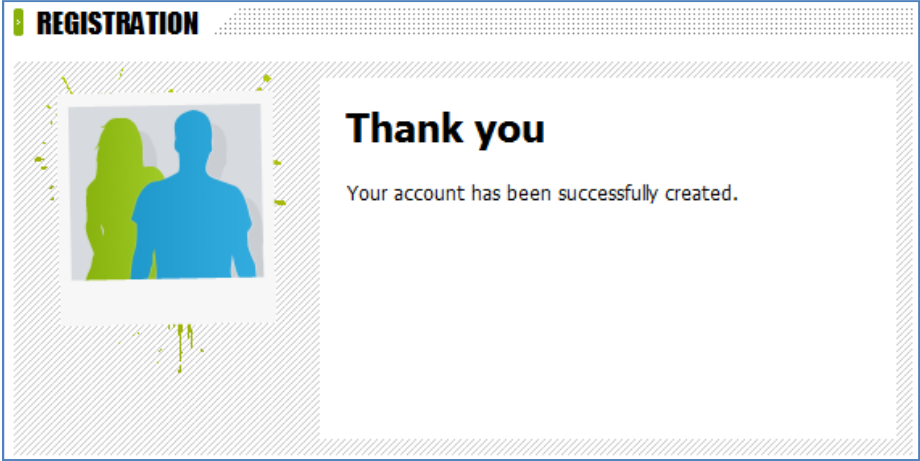The password for the Administrator account on all computers in this lab is: **pass@word1**
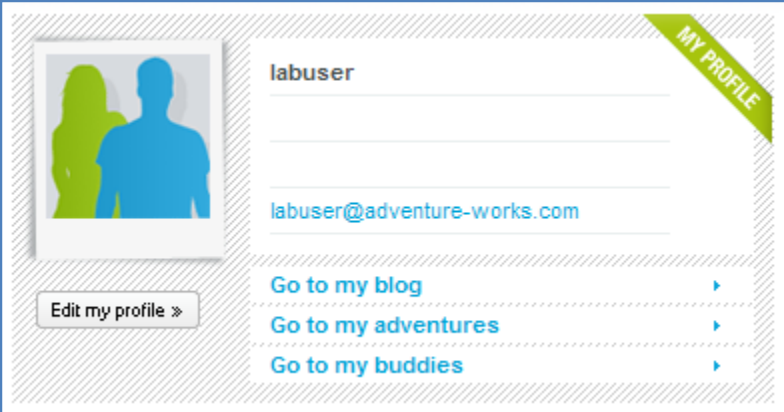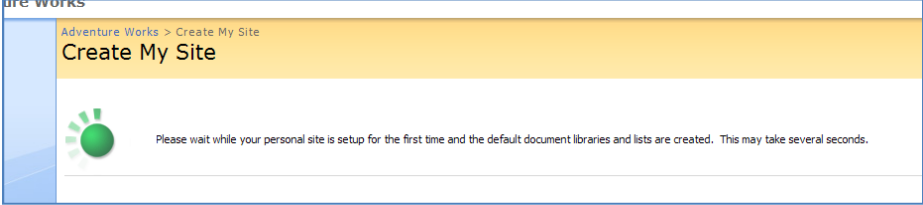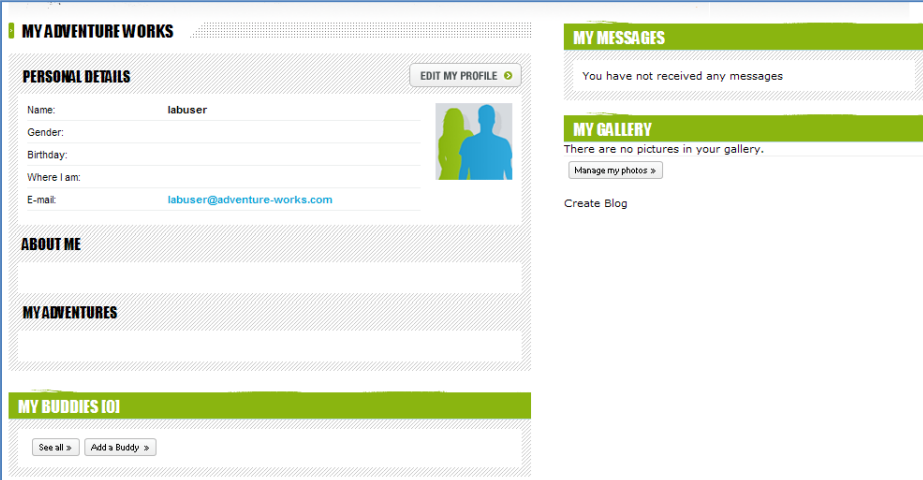
Exercise 1
Adventure Works Walkthrough

Scenario
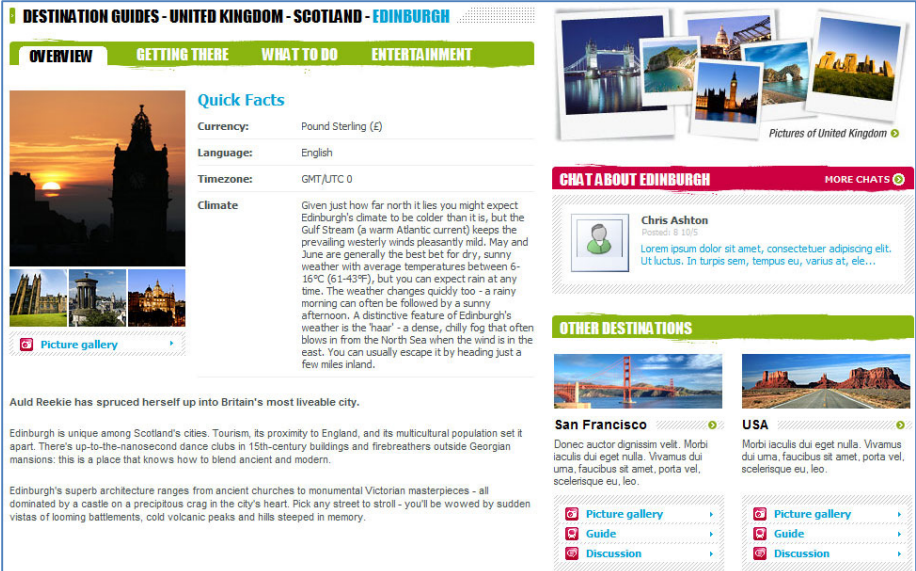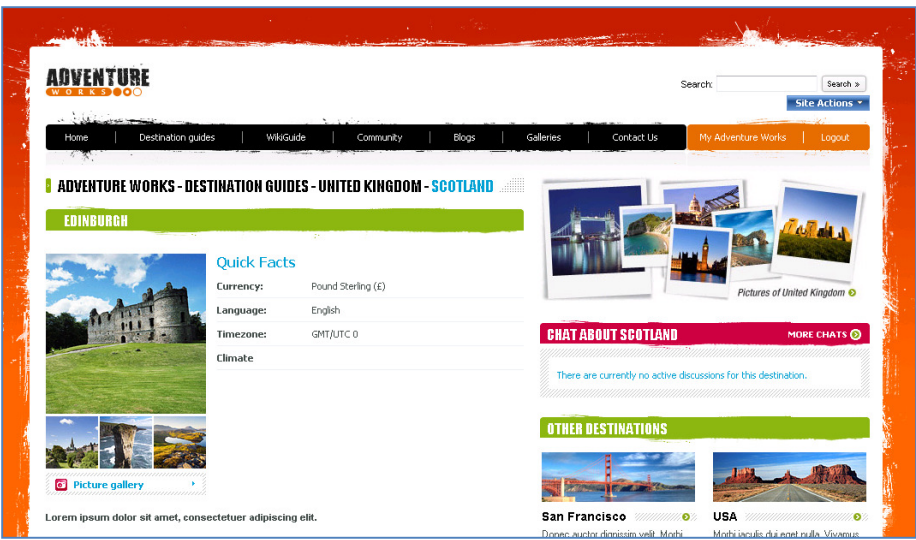
In this exercise, you will be taken around the Adventure Works site to explore it's interface elements.

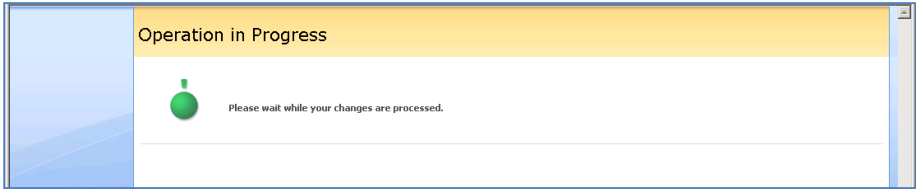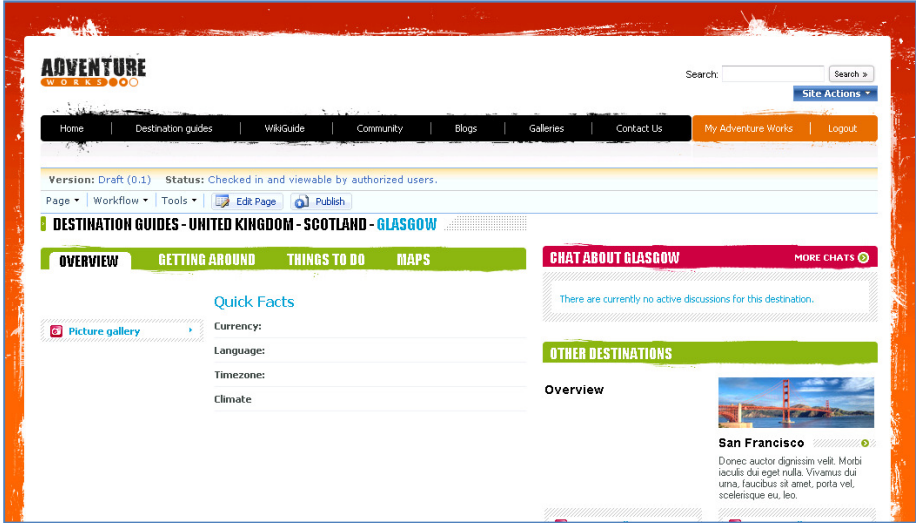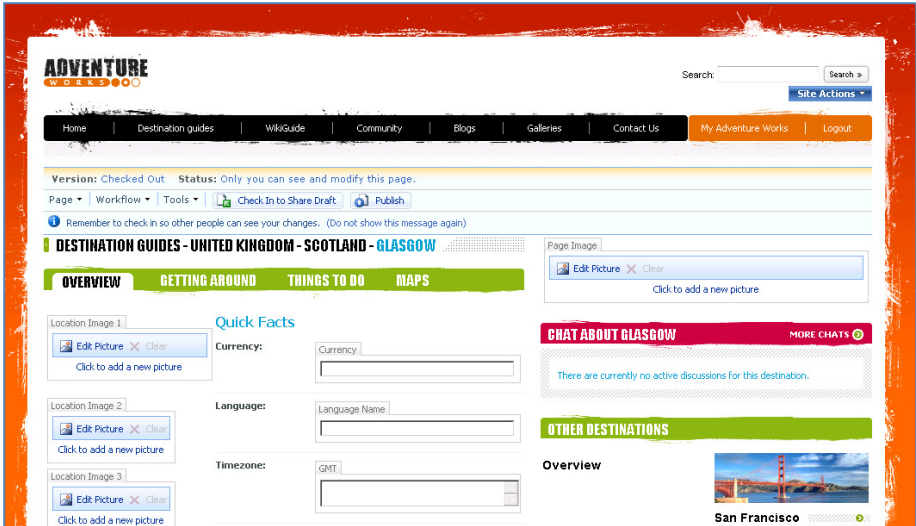| Tasks	Detailed Steps
Complete the following tasks on: **Image014-5** 1. **Register a new user account in Adventure Works**	*Note: The Adventure Works SharePoint web application provides two entry points; a private authoring site which uses Windows Authentication (http://authoring.adventure-works.com) and a public facing web site which uses Forms Based Authentication (http://www.adventure-works.com).* a. Open **Internet Explorer** and browse to the Adventure Works homepage: http://www.adventure-works.com *Note: Notice that this is the public entry point for Adventure Works and is running under **Forms Based Authentication**.*

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Tasks	Detailed Steps
	*Note: The Adventure Works homepage features a **Register** panel which facilitates self service member registration. A link to registration is also present in the top navigation of the site.*
	b. Click on the **Register** button on the homepage to navigate to the registration page.
	c. On the registration page, fill in all the details and click **Register** to create an account on the site.
	▪ Name: **labuser**
	▪ E-mail: **labuser@adventure-works.com**
	▪ Password: **pass@word1**
	*Note: If the registration is successful you will see a **Thank you** page indicating that the account has been created.*
	d. Close and re-open the browser or hit logout button.
2. Login using new account	*Note: Now that you have registered, you can login with your new account.*
	a. Browse to the Adventure Works homepage (http://www.adventure-works.com).
	b. Login to the site with the same account you just registered in the previous task.

Tasks	Detailed Steps
	Note: Notice the homepage now displays a personalized profile view in place of the login box.
3. Explore My Adventure Works	*Note: Adventure Works provides a personal profile page and My Site integration, which is called My Adventure Works.* **a.** Click on the **My Adventure Works** link in the top navigation. *Note: When you click on this link, SharePoint will create you a new **My Site site collection**. Adventure Works uses the My Site functionality in order to provide users with a personal picture gallery, blog and other features such as messages.* *Note: Once the My Site has been created, you will be redirected to your My Adventure Works homepage.* *Note: The My Adventure Works homepage exposes a number of social networking features, some are based on out of the box SharePoint features and others are custom features.* *The personal details information is store in the Shared Service Provider. My Buddies is actually using the SharePoint Colleagues functionality. My Messages uses a custom list in the user's My Site site collection and My Gallery uses the image gallery*

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Tasks	Detailed Steps
	document library in the My Site. *These features will be covered in greater detail in Module 9: Enabling social networking for your site.*
4. Explore the Silverlight application	a. Browse to the Adventure Works homepage (http://www.adventure-works.com). *Note: On the homepage, there is a Silverlight control featured to the top right of the page. The control provides a gallery viewer which is dynamically powered via content from the site.* b. Click on one of the thumbnail images on the right of the control and observe that the large image background changes accordingly. The Silverlight application is displaying pictures from the gallery at http://www.adventure-works.com/galleries. c. Click on the **Go To Picture Gallery** link and explore the Gallery. d. Return to the homepage and in the Silverlight application, click on the **Go To Destination guide** link. *Note: Destination Guides showcase some common WCM functionality. The default page (overview) and other section pages feature numerous content placeholders which can be edited by the user. The user is also able to upload and display images on the pages.* *In the right column of the page there is an image placeholder at the top followed by a custom control which aggregates the latest chat messages about the current destination from the discussion boards (http://www.adventure-works.com/community/Lists/Discussion%20Board/AllItems.aspx).*
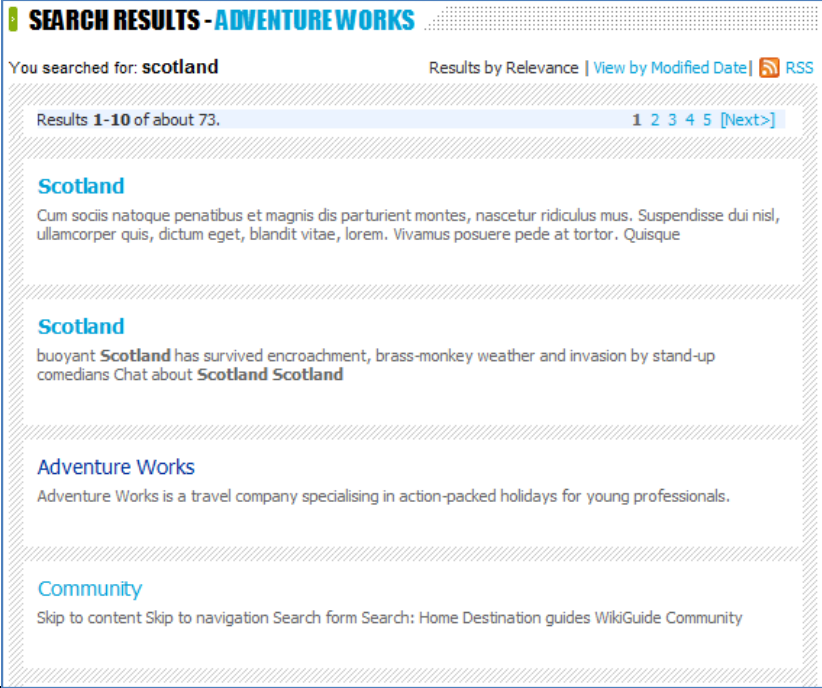
Tasks	Detailed Steps
	*The Other Destinations area uses a **Content Query WebPart** to display an aggregated view of the two most recently updated Destination Guides.*

5. Add a new Destination Guide	*Note: The Adventure Works site provides a site template for creating new Destination Guides. You will utilise this site template now.*
	
	a. Navigate to the authoring site (http://authoring.adventure-works.com).
	
	b. As this site is using Windows Authentication, you will be logged when you try to access a system page.
	
	Note: Do this now by browsing to http://authoring.adventure-works.com/_layouts/settings.aspx
	
	c. When you are prompted to login in, login as the site administrator:
	  ▪ Username: **litwareinc\administrator**
	  ▪ Password: **pass@word1**
	
	*Note: Once logged in you should see the **Site Actions** menu appear beneath the search box to the top right of the page.*
	
	d. In the Destination Guides section of the homepage, click on **Scotland**.
	
	e. Click on **Site Actions > Create Site**.

Tasks	Detailed Steps
	  f. In the **Title and Description** section, change the title to **Glasgow**, and in the **Web Site Address** section change the **URL name** to **glasgow**. Under the Template Selection, ensure that **Adventure Works Destination Guide Site** is selected in the publishing tab, and then click **Create** at the bottom of the page.

Tasks	Detailed Steps
	g. Wait while SharePoint creates the new site. **h.** Once completed, you should see the **Overview** page for the new site. At this point the page is in an **unpublished** state. **i.** Click on the **Edit Page** button in the **Page Editing Toolbar** to switch to edit mode. **j.** Populate the page fields with some content. **k.** To add a picture to the location images or the main page image on the right, click on **Click to add a new picture** on any of the image placeholders. This will bring up the **Edit Image Properties** dialog.

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Tasks	Detailed Steps
	  l. Click on **Browse…** to pick a picture from a SharePoint gallery. m. Click on an image and click **OK** when done to return to the Edit Image Properties dialog. Here you be able to specify additional image properties such as **Alternate text** before adding the image to the placeholder.

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Tasks	Detailed Steps
	*Note: Some fields on the page, such as **Page Content** allow rich content and formatting. Clicking on this field will automatically bring up the **RadEditor Lite** toolbar. **RadEditor Lite** is a free third party solution from **Telerik** (http://www.telerik.com/products/sharepoint/lite-editor-for-asp.net.aspx) which is being used instead of the standard out-of-the-box editing toolbar that MOSS provides. This is due to the enhancements it provides when saving content as XHTML compliant.*
	n. When you've finished editing the page, click the **Publish** button in the Page Editing Toolbar.
	Note: This will publish the page so it is no longer in a draft state and other users will be able to see the content.
	o. The published **Overview** page is just one of four pages, which makes up a Destination Guide. The other pages are **Getting Around**, **Things To Do** and **Maps**.
6. Use the Adventure Works site search	*Note: The search box is available on all pages of the site as it is included in the Adventure Works default master page. The search box is located to the top right of the page.* **a.** Place the cursor inside the search box and enter **Scotland** and then click the **Search** button.

Tasks	Detailed Steps
	Note: *You will be redirected to the search results page and you should see some results for the query. The search results page uses some of the out-of-the-box SharePoint web parts which provide the results display, pagination and also the ability to sort the results by* **Modified Date** *or* **Relevance**.
7. Examine the site content and structure	a. Select **Site Actions > Manage Content and Structure**

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Tasks	Detailed Steps
	  Note: This will bring up a view of the structure of the Adventure Works site collection. You will see that the various sub-sites define the top level site structure that is used in the top navigation. Note that each sub-site has its own pages library.
8. Explore the IIS configuration	*Note: In this task, you will begin exploring the server configuration in order to understand how the Adventure Works site is set up.* a. Open the IIS Manager: **Start Menu > Administrative Tools > Internet Information Services (IIS) Manager** b. Select the **Web Sites** node to display the details of each web site.

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Tasks	Detailed Steps
	  *Note: The **SharePoint Central Administration v3** web site is running on port 6147. You can navigate to the Central Administration site from the Start Menu.* *Also note that **AdventureworksProduction** and **AdventureworksAuthoring** are using host headers which you will use to browse to those web sites.* c. Close **Internet Information Services (IIS) Manager**.
9. Explore Central Administration	*Note: You will now begin to explore the SharePoint configuration via Central Administration.* a. Open Central Administration: **Start Menu > Administrative Tools > SharePoint 3.0 Central Administration** b. When prompted, log in as **litwareinc\administrator** using password **pass@word1**. c. Click on the **Operations** tab. d. Select **Global Configuration > Solution management**. *Note: There are a number of extra solution packages present which are deployed during the Adventure Works installation.* e. Click on the **Application Management** tab. f. Select **SharePoint Web Application Management > Web application list**. *Note: There are a number of SharePoint web applications present in the farm. **AdventureworksAuthoring** (the Adventure Works site) and **ssp.adventure-works.com** (the Shared Service Provider used for Adventure Works) are created by the Adventure Works installer.* g. Click the **Cancel** button. h. Select **Application Security > Authentication providers** and if necessary ensure **http://authoring.adventure-works.com** is the selected web application.

Tasks	Detailed Steps
	Web Application: http://authoring.adventure-works.com/ ▾ Zone Membership Provider Name Default Windows Internet fbaMembers *Note: The Adventure Works web application uses two zones. The **Default** zone and the **Internet** zone.* **i.** Click on the **Internet** zone. **Web Application** Web Application: http://authoring.adventure-works.com/ **Zone** These authentication settings are bound to the following zone. Zone Internet **Authentication Type** Choose the type of authentication you want to use for this zone. Learn about configuring authentication. Authentication Type ○ Windows ● Forms ○ Web single sign on **Anonymous Access** You can enable anonymous access for sites on this server or disallow anonymous access for all sites. Enabling anonymous access allows site administrators to turn anonymous access on. Disabling anonymous access blocks anonymous users in the web.config file for this zone. ☑ Enable anonymous access **Membership Provider Name** Enter the name of the membership provider. The membership provider must be correctly configured in the web.config file for the IIS Web site that hosts SharePoint content on each Web server. It must also be added to the web.config file for IIS site that hosts Central Administration. Membership provider name: fbaMembers **Role Manager Name** Enter the name of the role manager (optional). The role manager must be correctly configured in the web.config file for this zone. Role manager name: fbaRoles **Client Integration** Disabling client integration will remove features which launch client applications. Some authentication mechanisms (such as Forms) don't work well with client applications. In this configuration, users will have to work on documents locally and upload their changes. Enable Client Integration? ○ Yes ● No *Note: This zone is configured to use forms based authentication via the **fbaMembers** membership provider and **fbaRoles** role manager. **Anonymous access** is enabled for this zone.* **j.** Click the **Cancel** button and then click on the **Default** zone.

Tasks	Detailed Steps
	Note: This zone is configured to use Windows authentication via NTLM, and anonymous access is enabled.
10. Explore the Adventure Works Shared Services provider	*Note: Adventure Works uses it's own Shared Service Provider which is created during the install process. You will explore this now.* **a.** Click on the **ssp.adventure-works.com** link in the quick launch panel on the left. **b.** Select **User Profiles** and **My Sites > View profile properties**. **c.** Click on **User Profile Properties > View profile properties**. **d.** Scroll to the foot of the properties page to the Adventure Works Properties section. This section contains two custom properties, Country and Gender.

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Tasks	Detailed Steps
	e. Return to the Shared Service Provider homepage.
	f. Select **User Profiles and My Sites > Personalization service permissions**.
	Note: Notice the Forms based authentication specific users are granted permissions here
	g. Close Internet Explorer.

Exercise 2
Development Tools and Web Part Solution

Scenario
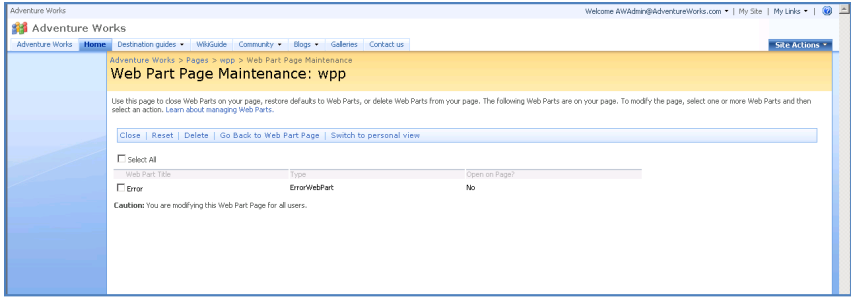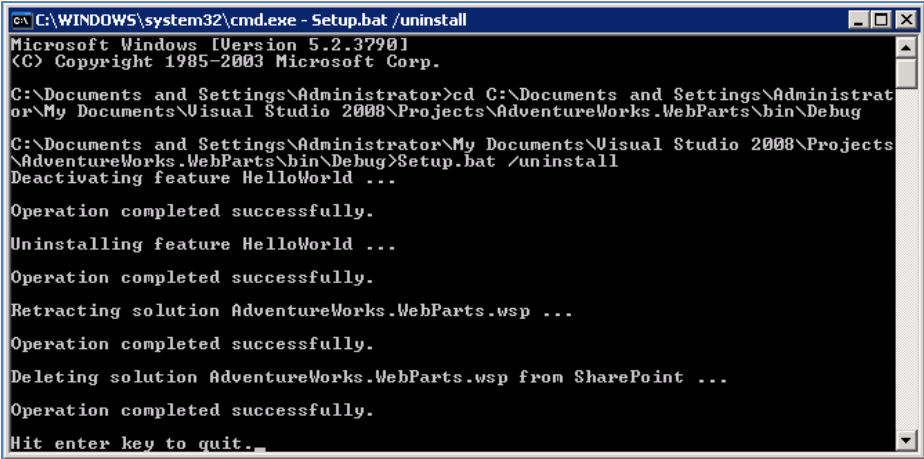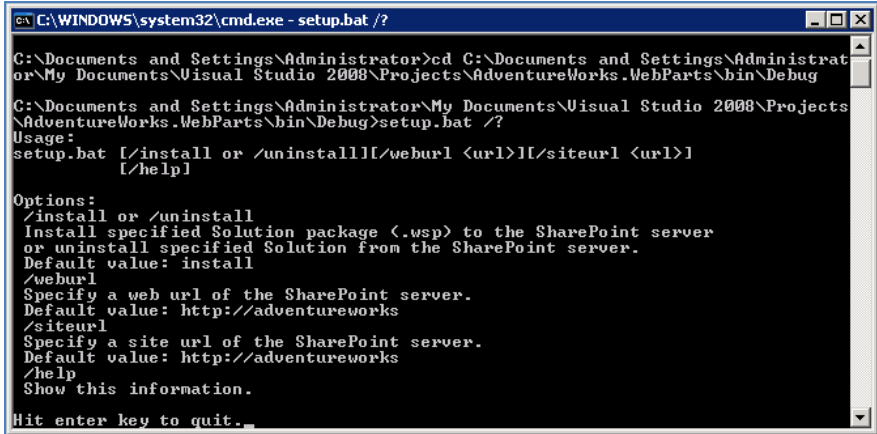
In this exercise, you will deploy a web part using the Visual Studio extensions for Windows SharePoint Services (VSeWSS) v1.2 and explore Adventure Works using SharePoint Designer 2007.

Tasks	Detailed Steps
Complete the following tasks on: 🟥 **Image014-5** 1. **Create and deploy a web part**	*Note: First of all, you will create and deploy a new web part using the VSeWSS 1.2 in Visual Studio 2008.* a. Open Microsoft Visual Studio 2008 from **Start | Programs | Microsoft Visual Studio 2008 | Microsoft Visual Studio 2008** b. In Visual Studio, select **File > New > Project…** c. Expand the **Visual C#** node and click on **Sharepoint**, then click **WebPart** under **Templates**. d. Change the project name from **WebPart1** to **AdventureWorks.WebParts**, and click **OK**. *Note: The project created contains a folder called **WebPart1**, which contains 3 files also called **WebPart1**. For this demo, you will change the name of the web part to something more relevant - **HelloWorld**.* e. Right-click the **WebPart1** folder, and select **Delete**. Click **OK** on confirm dialog box. f. Right-click the project name **AdventureWorks.WebParts** in the **Solution Explorer** window, and select **Add > New Item…** g. In the **Add New Item** window under Visual C#, click on **SharePoint**, then select the **Web Part** item and rename **WebPart1** to **HelloWorld**. h. Click **Add**.

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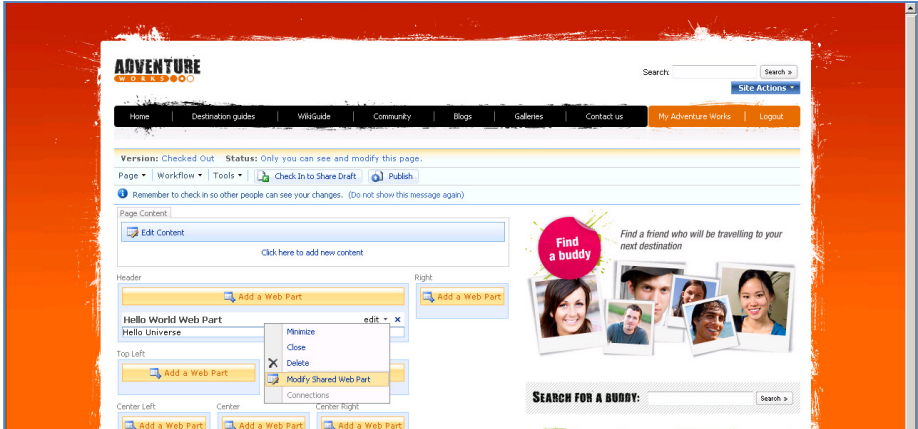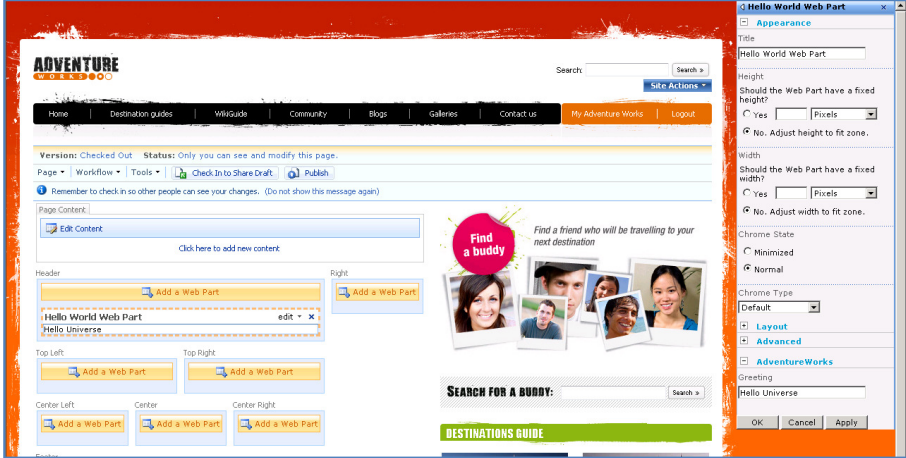
Tasks	Detailed Steps

	Note: HelloWorld.cs is the web part control, and will be the location of the code to display some text on the screen.
	
	HelloWorld.webpart is the xml which defines the web part.
	
	HelloWorld.xml is the xml which tells SharePoint what the feature consists of and where it should be located.
	
	i. Open the **HelloWorld.webpart** file, and update the title and description. E.g.
	
	`<property name="Title" type="string">Hello World Web Part</property>`
	
	`<property name="Description" type="string">Hello World Example</property>`
	
	j. Save and close the file.
	
	k. Open the **HelloWorld.cs** file, and uncomment the following lines:
	
	`// Label label = new Label();`
	`// label.Text = "Hello World";`
	`// this.Controls.Add(label);`
	
	l. Save and close the file.
	
	m. Right-click the project name **AdventureWorks.WebParts** in the **Solution Explorer** window, and select **Properties**. (If you don't have the **Solution Explorer** visible, go to **View > Solution Explorer.**)
	
	n. In the main window along the left column, select the **Debug** tab, and change the **Configuration** dropdown to **All Configurations**.
	
	o. Under the **Start Action** section, make sure the **Start browser with URL** option is selected and update the **URL** to **http://authoring.adventure-works.com/**.
	
	p. Switch to **Debug** mode in the **Configuration** drop-down..
	
	q. Right-click the solution name **Solution 'AdventureWorks.WebParts' (1 project)** in the **Solution Explorer** window, and select **Deploy**. (You can access the same command via **Build | Deploy Solution** from the main menu bar.)
	
	r. If success, you should see **Deploy succeeded** in the status at the bottom left of the Visual Studio screen.
	
	s. **Minimize** Visual Studio.
	
	t. Confirm the solution has been successfully deployed. Open **SharePoint Central Administration**: **Start‖SharePoint 3.0 Central Administration**
	
	u. Select the **Operations** tab. Under the **Global Configuration** section, select **Solution Management**.

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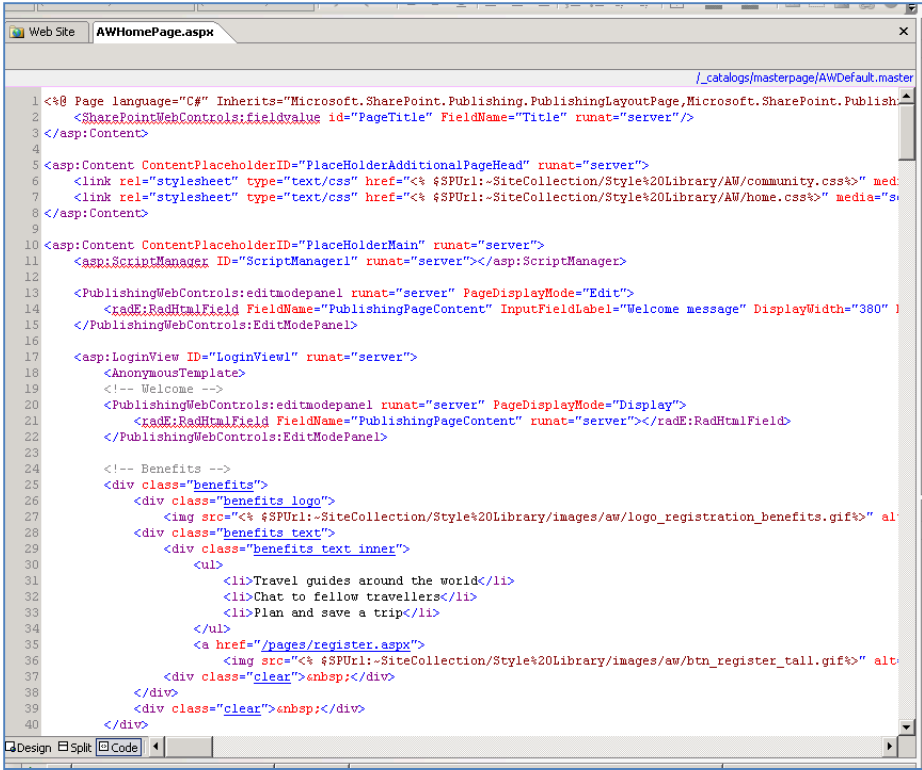
Tasks	Detailed Steps
	v. Confirm **adventureworks.webparts.wsp** marked as **Deployed**.
2. **Add a web part to a web part page**	*Note: Now that the web part has been deployed to the farm, it needs to be added to a page in the Adventure Works site.*
	a. Open a new browser and navigate to **http://authoring.adventure-works.com/_layouts/settings.aspx**.
	b. Login in as **litwareinc\administrator** with password **pass@word1** (you may be already logged-in).
	c. The **Site Actions** menu should appear in the top right hand corner.
	d. Select **Site Actions** | **Create Page**.
	e. On the **Create Page**, add the following values. When these have been added, click **Create**.
	<table><tr><td>Title:</td><td>**Hello World**</td></tr><tr><td>Description:</td><td>(optional)</td></tr><tr><td>URL Name:</td><td>Pages/**wpp**.aspx</td></tr><tr><td>Page Layout:</td><td>**(Welcome Page) Blank Web Part Page**</td></tr></table>
	f. Pick a zone, such as the **Header**, and click on the **Add a WebPart** button.
	g. On the **Add Web Parts** window, scroll down to the **Miscellaneous** section, where you should see the **HelloWorld Web Part**.

Tasks	Detailed Steps
	  h. Check the checkbox beside the **HelloWorld Web Part**, and click **Add**. **i.** When the web part has been added, click the **Publish** button on the page editing toolbar.
	Note: The page now displays the new web part.
3. Retract the solution and remove the web part	*Note: Next you will make some modifications to the web part, but first you will remove the web part from the farm.* **a.** Open **Command Prompt**: **Start | Run… | cmd** **b.** At the prompt, type:\ `cd C:\Documents and Settings\Administrator\My Documents\Visual Studio 2008\Projects\AdventureWorks.WebParts\ AdventureWorks.WebParts\bin\Debug` *Note: (If you put your project in a different location, change the path to match location of your project)* *VSeWSS has created a setup.bat file which you can use to install and uninstall the solution.* **c.** To view the help, type:

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	`Setup.bat /?`
	
	d. Now uninstall the solution by typing:
	
	`Setup.bat /uninstall`
	
	Note: Although this has removed the solution, the web part is still in the gallery and will cause an error on the web page.
	
	e. Browse to **http://authoring.adventure-works.com/_layouts/settings.aspx**
	f. Login as administrator if you are prompted.

Tasks	Detailed Steps
	g. Browse to **http://authoring.adventure-works.com/pages/wpp.aspx**.
	h. Select **Site Actions | Edit Page**.
	i. In the menu bar of the problem web part, select **edit | Delete**. Click **OK** on the confirm dialog box.
	j. Add **?contents=1** to the end of the URL to get to the web part maintenance page.
	http://authoring.adventure-works.com/pages/wpp.aspx?contents=1
	k. If there is a checkbox for "**Error**," check it and click the **Delete** button.
	l. Next, select **Site Actions | Site Settings | Modify All Site Settings**.
	m. On the **Site Settings** page, under the **Galleries** section, select **Web Parts**.
	n. You should see the **HelloWorld.webpart** still listed. Click the **Edit** icon to the right.
	o. Click the **Delete Item** button, and click the **OK** button on the confirm dialog box.
	Note: You can remove the web part from the page and the gallery before running the uninstall.
4. Add a property to the web part	*Note: Now that the web part has been fully undeployed, you can make some modifications.*
	a. Re-open Microsoft Visual Studio 2008: **Start | Programs | Microsoft Visual Studio 2008 | Microsoft Visual Studio 2008**
	b. Select **AdventureWorks.WebParts** from the Start Page Recent Projects section.
	c. Open the **HelloWorld.cs** file.
	d. Add the following code block before the constructor (`public HelloWorld() { }`)
| | ```csharp
private const string defaultGreeting = "Hello Universe";
private string greeting = defaultGreeting;

[WebBrowsable(true),
SPWebCategoryName("AdventureWorks"),
Personalizable(PersonalizationScope.Shared)]
public string Greeting
{
    get { return greeting; }
    set { greeting = value; }
}
``` |
| | **e.** In the same file, change the value for **label.Text** to **greeting**: |
| | ```csharp
label.Text = "greeting";
``` |
	f. Save and close the file.
	g. Ensure you have uninstalled any previous installs of the **AdventureWorks.WebParts.wsp** solution, and that you have tidied up the web part page and the web part gallery (see previous task).
	h. Right-click the solution name **Solution 'AdventureWorks.WebParts' (1 project)** in the **Solution Explorer** window, and select **Deploy**.
	i. Browse to **http://authoring.adventure-workscom/pages/wpp.aspx**.
	j. Select **Site Actions > Edit Page** (if the **Site Actions** menu has disappeared, login again).

Tasks	Detailed Steps
	k. Click on the **Add a Web Part** button.
	l. On the **Add Web Parts** window, scroll down to the **Miscellaneous** section, select the **Hello World Web Part**, and click **Add**.
	m. For the web part, select **edit	Modify Shared Web Part**.
	n. In the **Hello World Web Part** panel in the right column, expand the
	AdventureWorks section.
	o. Update the text for the **Greeting**, and click **OK**.
	p. The text has updated. Finish off by clicking the **Publish** button.
5. Explore Adventure Works using SharePoint Designer 2007	*Note: Now you will browse the Adventure Works site structure using SharePoint Designer 2007.*
	a. Select **Start Menu	All Programs	Microsoft Office	Microsoft Office SharePoint Designer 2007**.
	b. In SharePoint Designer, select **File > Open Site …**
	c. Enter **http://authoring.adventure-works.com** into the **site name** box and click **Open**.
	Note: When using SharePoint Designer, always use the Windows authentication version of the site, otherwise you may encounter problems.
	d. If prompted, login as **litwareinc\administrator**, password **pass@word1**.
	e. In the **Folder List** window, you can see the site structure. Expand the **Pages**

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Tasks	Detailed Steps
	folders, and double-click **default.aspx**.
	Note: You will receive a warning that publishing pages cannot be edited in SharePoint Designer.
	f. Click the **Edit Page Layout** button.
	g. In the check out prompt, click the **Yes** button.
	Note: SharePoint Designer retrieves the page layout that the publishing page is using, checks it out and opens it for editing.
	*The **AWHomePage.aspx** will open in the main screen, and the file will have a **green tick** to mark it as checked out.*
	h. To **check in** the file with changes, right-click **default.aspx**, and select **Check In**.
	Note: You can choose the check in as a major (public) or minor (draft) version.
	i. Exit SharePoint Designer 2007.