

Using WebTextEditor in Microsoft Office SharePoint 2007

This white paper describes the techniques and walkthrough on how to use WebTextEditor Microsoft Office SharePoint Server 2007 as a WebPart.

Prerequisites

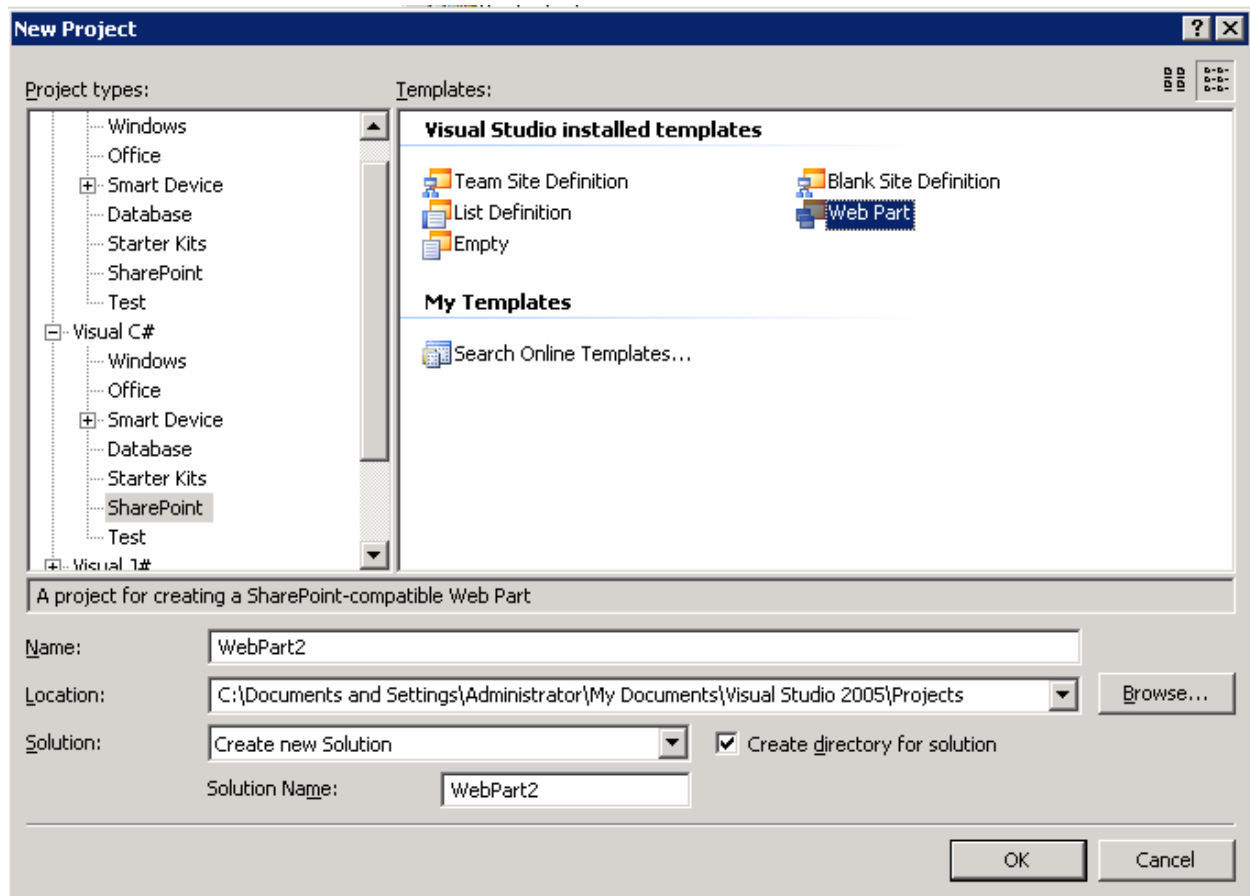
The following are the prerequisites development environments before proceeding further.

- Windows 2003 Server with IIS installed.
- Microsoft Office SharePoint Server 2007.
- Intersoft WebUI Studio 2009 R2.

The virtual PC image of Microsoft Office SharePoint Server 2007 can be obtained [here](#). Click [here](#) to download the 30-day fully functional WebUI Studio 2009 R2.

Creating a WebPart

1. Create a blank Share Point WebPart. Simply select New Project > C# > SharePoint > WebPart.



2. Enter a name for your WebPart. This tutorial is using **WebPartWebTextEditor** as the name.

```
using System;
using System.Runtime.InteropServices;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;
using System.Xml.Serialization;

using Microsoft.SharePoint;
using Microsoft.SharePoint.WebControls;
using Microsoft.SharePoint.WebPartPages;

namespace WebPartWebTextEditor
{
    [Guid("d87b47e6-53aa-499a-90f7-9c715f3fd3ef")]
    public class WebPart1 : System.Web.UI.WebControls.WebParts.WebPart
    {
        public WebPart1()
        {
        }
    }
}
```

```

protected override void CreateChildControls()
{
    base.CreateChildControls();

    // TODO: add custom rendering code here.
    // Label label = new Label();
    // label.Text = "Hello World";
    // this.Controls.Add(label);
}
}
}

```

3. Next it to add reference to all required assemblies. Right click on the References in Solution Explorer and navigate to:

- %Installation Path\Intersoft Solutions\WebUI Studio for ASP.NET\ WebUI.NET Framework 3.0\Bin. Add **ISNet.dll**, **ISNet.WebUI.dll**, and **ISNet.WebUI.Resources.dll**.
- %Installation Path\Intersoft Solutions\WebUI Studio for ASP.NET\ WebTextEditor.NET 1.1\Bin. Add **ISNet.WebUI.WebTextEditor.dll** and **ISNet.WebUI.WebTextEditor.Resources.dll**.

4. Create a new class inheriting **EditorPart** class from SharePoint.

Here's the code:

```

using System;
using System.Collections.Generic;
using System.Text;
using System.Web.UI.WebControls.WebParts;
using ISNet.WebUI.WebTextEditor;
using System.Web.UI.WebControls;
using System.Drawing;

namespace WebPartWebTextEditor
{
    class HtmlEditor : EditorPart
    {
        private WebTextEditor htmlContentText;
        public HtmlEditor()
        {
            this.ID = "HtmlEditor";
        }

        protected override void CreateChildControls()
        {
            htmlContentText = new WebTextEditor();
            htmlContentText.Width = Unit.Pixel(500);
            htmlContentText.Height = Unit.Pixel(700);
            htmlContentText.ImagesDirectory = "http://hvp-win03-1:82/CommonLibrary/Images/WebTextEditor/";
            htmlContentText.ScriptDirectory = "http://hvp-win03-1:82/CommonLibrary/WebTextEditor/V1_0_1000/";
            htmlContentText.SharedScriptDirectory = "http://hvp-win03-

```

```

1:82/CommonLibrary/Shared/";
        htmlContentText.SharedScriptDirectory = "http://hvp-win03-
1:82/CommonLibrary/Shared/";
        htmlContentText.WebDesktopScriptDirectory = "http://hvp-
win03-1:82/CommonLibrary/WebDesktop/V3_0_7200/";
        this.Controls.Add(htmlContentText);
    }

    public override bool ApplyChanges()
    {
        EnsureChildControls();

        WebPartWebTextEditor part = WebPartToEdit as
WebPartWebTextEditor;
        if (part != null)
            part.DisplayText = htmlContentText.Content;
        else
            return false;

        return true;
    }

    public override void SyncChanges()
    {
        EnsureChildControls();

        WebPartWebTextEditor part = WebPartToEdit as
WebPartWebTextEditor;
        if (part != null)
            htmlContentText.Content = part.DisplayText;
    }
}
}
}

```

The CreateChildControls contains the definition of a new WebTextEditor object with few properties set. If you are not using SmartWebResources, you need to manually map the path for the script and resources. ***If you are using SmartWebResources, please follow the step 2 of “Enabling WebTextEditor control in SharePoint Site” below.***

5. Back to the main class (WebPartWebTextEditor) and edit it.

Here is the code:

```

using System;
using System.Runtime.InteropServices;
using System.Web.UI;
using System.Web.UI.WebControls.WebParts;
using System.Xml.Serialization;

using System.Collections.Generic;
using Microsoft.SharePoint;
using Microsoft.SharePoint.WebControls;
using Microsoft.SharePoint.WebPartPages;

namespace WebPartWebTextEditor

```

```

{
    [Guid("8fa6b1cc-e58c-44ab-b4c1-53cef13340c6")]
    public class WebPartWebTextEditor :
System.Web.UI.WebControls.WebParts.WebPart, IWebEditable
    {
        public WebPartWebTextEditor()
        {
            this.ExportMode = WebPartExportMode.All;
        }

        private string displayText = "Hello World!";
        [WebBrowsable(true), Personalizable(true)]
        public string DisplayText
        {
            get { return displayText; }
            set { displayText = value; }
        }

        protected override void Render(System.Web.UI.HtmlTextWriter
writer)
        {
            writer.Write(displayText);
        }

        #region IWebEditable Members
        EditorPartCollection IWebEditable.CreateEditorParts()
        {
            List<HtmlEditor> editors = new List<HtmlEditor>();
            editors.Add(new HtmlEditor());
            return new EditorPartCollection(editors);
        }
        object IWebEditable.WebBrowsableObject
        {
            get { return this; }
        }
        #endregion
    }
}

```

The ***IWebEditable*** acts as an interface for specifying custom editing control which is later associated to a WebPart control. By declaring the HTMLEditor class as the editor class in the WebPart, user will be able to see and select HTMLEditor in edit mode. The ***DisplayText*** property holds the value for WebPart and must be placed inside the **Render** method.

6. Save and Build the project.

Enabling WebTextEditor control in SharePoint Site

This walkthrough will guide you on how to configure the newly created site in order to integrate WebTextEditor into it.

Three important steps that need to be done:

1. Mark your WebPart as Safe Control

- Launch Windows Explorer and navigate to the folder of your site. E.g, C:\inetpub\wwwroot\wss\VirtualDirectories\80. **Note:** the number indicates the port number of your designated site.

- Open the Web.config.

- Paste the following code before </SafeControls>

```
<SafeControl Assembly="WebPartWebTextEditor, Version=1.0.0.0, Culture=neutral, PublicKeyToken=9f4da00116c38ec5" Namespace="WebPartWebTextEditor" TypeName="*" Safe="True" />
```

WebPartWebTextEditor is the namespace of the new created dll from the WebPart.

- Add WebTextEditor RuntimeLicenseKey under the <appSettings>

```
<add key="ISNet.WebUI.WebTextEditor.v1_0_1000.RunTimeLicenseKey" value="YOUR-RNTM-LCKY" />
```

2. Register SmartWebResources (Optional)

- Open our Web.config

- Past this code under the <httpHandlers>

```
<add path="ISRes.axd" verb="GET" type="ISNet.WebUI.WebResourceHandler, ISNet.WebUI, Version=3.0.5000.1, Culture=neutral, PublicKeyToken=b1f2a8511635667a" validate="true"/>
```

- And under the <appSettings>

```
<add key="ISNet.WebUI.ISRes_Registered" value="true"/>
```

- Save your Web.config.

3. Copy WebTextEditor Resources

- Launch Windows Explorer and go to the bin folder of your site. Eg, C:\inetpub\wwwroot\wss\VirtualDirectories\[YourAppPortNumber]\bin.

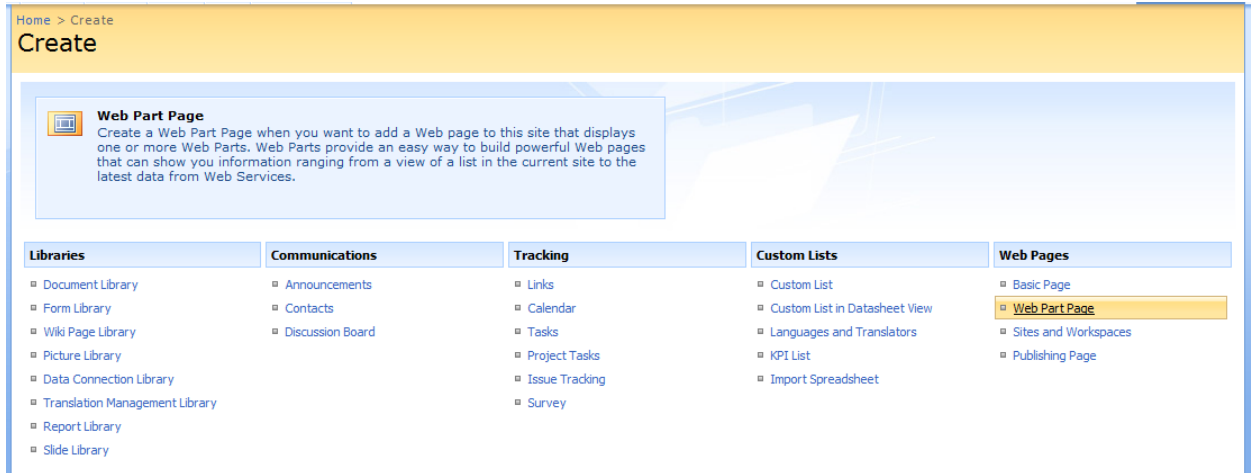
- Copy the following assemblies to the bin folder of your site:

- ✓ **ISNet.WebUI.WebDesktop.Resources.dll,**
- ✓ **ISNet.WebUI.WebTextEditor.dll, and,**
- ✓ **ISNet.WebUI.WebTextEditor.Resources.dll.**

- Drag and drop your WebPart assembly (for example: WebPartWebTextEditor.dll) to GAC (C:\Windows\assembly).

Create a WebPart page

1. Go to your Microsoft SharePoint page. E.g, <http://hvp-win03-1/Pages/Default.aspx>
2. Go to View All Site Content > Create.
3. In Web Pages, select WebPart Page



4. Enter your new WebPart name.
5. Populate it to the SharePoint WebPart Gallery. Go to Site Action > Site Settings > Modify All Settings.



Inside the Site Settings, go to Gallery column and choose WebPart

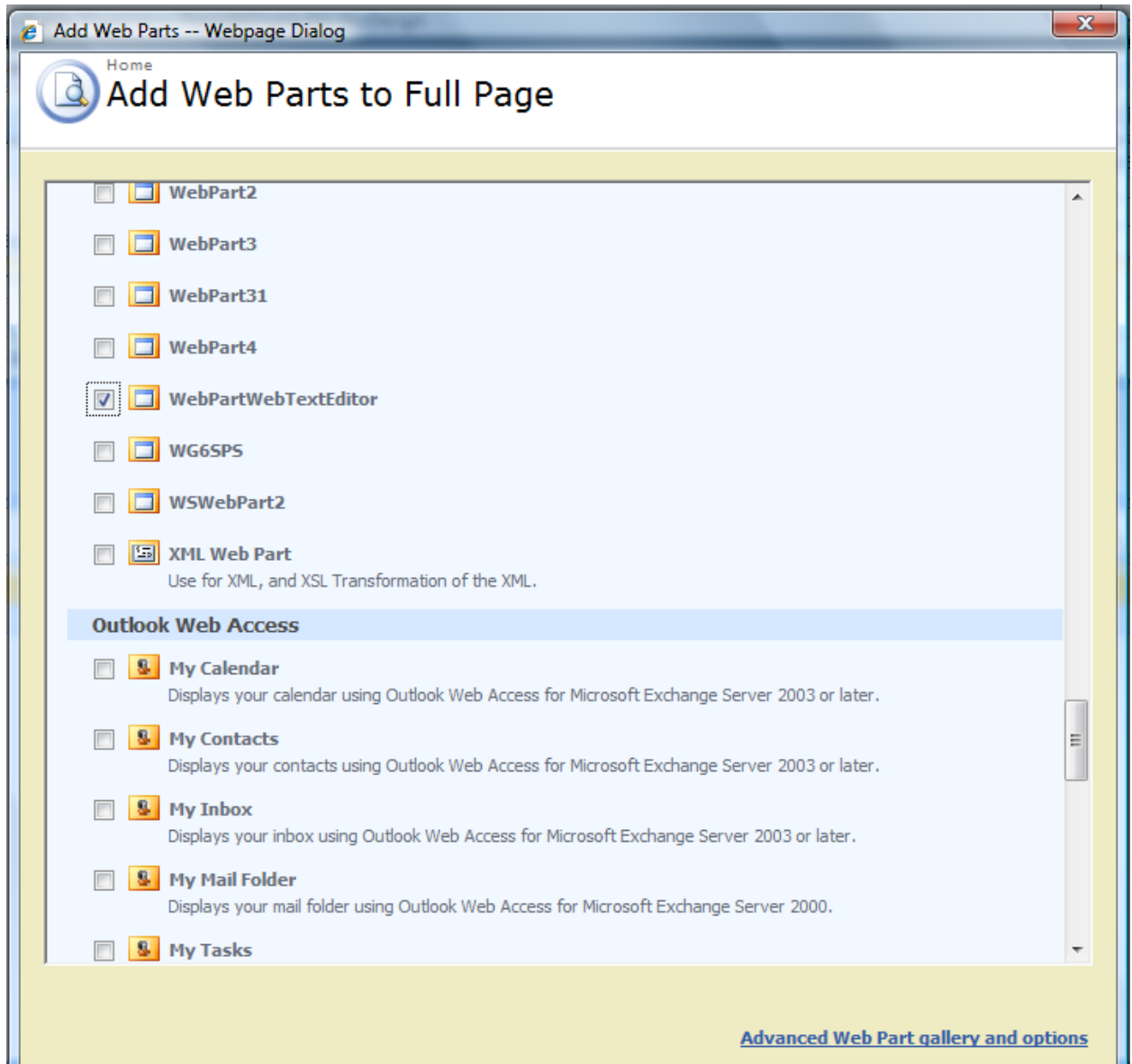
Home > Site Settings
Site Settings

Site Information
Site URL: <http://hpv-sps/>
Mobile Site URL: http://hpv-sps/_layouts/mobile/default.aspx
Version: 12.0.0.6219

Users and Permissions	Look and Feel	Galleries	Site Administration	Site Collection Administration
<ul style="list-style-type: none">People and groupsSite collection administratorsAdvanced permissions	<ul style="list-style-type: none">Master pageTitle, description, and iconNavigationPage layouts and site templatesWelcome pageTree viewSite themeReset to site definitionSearchable columns	<ul style="list-style-type: none">Site content typesSite columnsSite templatesList templatesWeb PartsWorkflowsMaster pages and page layouts	<ul style="list-style-type: none">Regional settingsSite libraries and listsSite usage reportsUser alertsRSSSearch visibilitySites and workspacesSite featuresDelete this siteRelated Links scope settingsSite output cacheContent and structureContent and structure logs	<ul style="list-style-type: none">Search settingsSearch scopesSearch keywordsRecycle binSite directory settingsSite collection usage reportsSite collection featuresSite hierarchyPortal site connectionSite collection audit settingsAudit log reportsSite collection policiesSite collection output cacheSite collection cache profilesSite collection object cache

In WebPart Gallery, click New > Checked the WebPart name (WebPartWebTextEditor.WebPartWebTextEditor) > Populate Gallery.

6. Now, you can add your new WebPart to the SharePoint page.



7. Try to modify the WebPart Page through the **Modify Shared WebPart** option, you'll see a WebTextEditor instance.

