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My Portfolio

Examples of my development experience with WSS/MOSS

April 30, 2009

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Project 1: Design and develop a SharePoint application

Project Goals

- Design and develop a SharePoint application to support the towing providers of a fictitious construction company called Acme
- Create two sub sites for two of Acme's vendors
 - ABC towing
 - Four Season's towing
- Develop forms to allow programmatic submission to a MOSS Forms Library initiating Purchase Order/Invoice workflow processes
- Configure the document library to notify towing

Acme Home Page

The screenshot shows the Acme Inc. home page in Internet Explorer. The browser title is "Report Center - Windows Internet Explorer" and the address bar shows "http://vm122:300/Pages/Default.aspx". The page has a navigation menu with items like "Home", "Feeds", "Print", "Page", and "Tools". The main content area is divided into several sections:

- Navigation:** "Acme Inc.", "ABC Towing", "Acme Contacts", "Four Seasons Towing", "Monthly Newsletters", and "Site Actions".
- Sidebar:** "View All Site Content", "Documents" (Sales Presentation), "Lists" (Calendar, Purchase Order, Invoice), "Reports", "Dashboards" (Sample), "Resources" (Data Connections, Report Calendar, Reference Library), "ABC Towing", "Acme Contacts", and "Four Seasons Towing".
- Main Content:**
 - About Us:** "Acme Inc. is the Nation's Largest Towing Company and is a leading national provider of towing, recovery and storage services with operating locations across the United States. Our team has over 1300 courteous professionals at your service. With over 750 units, we provide damage-free towing 24 hours a day, 7 days a week, 365 days a year. Our mission is to provide the highest standard of automobile, truck, municipal, and private property impound towing, and recovery services to customers on a local and regional basis and to continuously strive for flexibility in servicing our customers' needs in an expedient and cost efficient manner."
 - Announcements:**
 - Bill: Warn before towing car** (NEW) 4/29/2009 3:29 PM by System Account. "Ever had your car towed without warning? That practice will be banned in certain locations under a bill working its way through the Legislature. The house transportation Committee on Friday approved HB275 requiring apartment complexes and trailer parks..."
 - Tow Trucks for Sale** (NEW) 4/29/2009 3:16 PM by System Account. "Is your tow truck becoming a rusty memory? Check out our wreckers for sale. We have new, used, and consignment models for sale. We specialize in building custom tow trucks to fit your needs."
 - Acme Inc. KPIs:** "Show All Indicators" button. Table with columns "Indicator" and "Status":

Indicator	Status
Productivity	▲
Expenses	◆
 - Upcoming Events:** "5/27/2009 12:00 AM Western States Tow Show" (NEW) with "Add new event" button.

Acme Contacts

Searchable Contacts List for Acme employees



The screenshot shows a web application interface for Acme Inc. The page title is "Acme Contacts" and it displays a list of contacts. The interface includes a navigation menu, a search bar, and a table of contact information.

Acme Inc. Welcome System Account | My Site | My Links |

Acme Contacts This List: Contacts

Acme Inc. | ABC Towing | **Acme Contacts** | Four Seasons Towing | Monthly Newsletters **Site Actions**

Acme Inc. > Acme Contacts > Contacts

Contacts

Use the Contacts list for information about people that your team works with.

[New](#) | [Actions](#) | [Settings](#) View: **All contacts**

@	Last Name	First Name	Company	Business Phone	Home Phone	E-mail Address
	Ahuja	Sid	Lucent Technologies	732-735-6786	609-890-7765	sahuja@lucent.com
	Doe	John	Some Company			john.doe@somecompany.com
	Osbourne	John	OZZY Inc.	1-800-Dar-kness	1-800-Sha-ron!	ozzy@heaven.com

View All Site Content

Contact Management

- Contacts

Common Actions

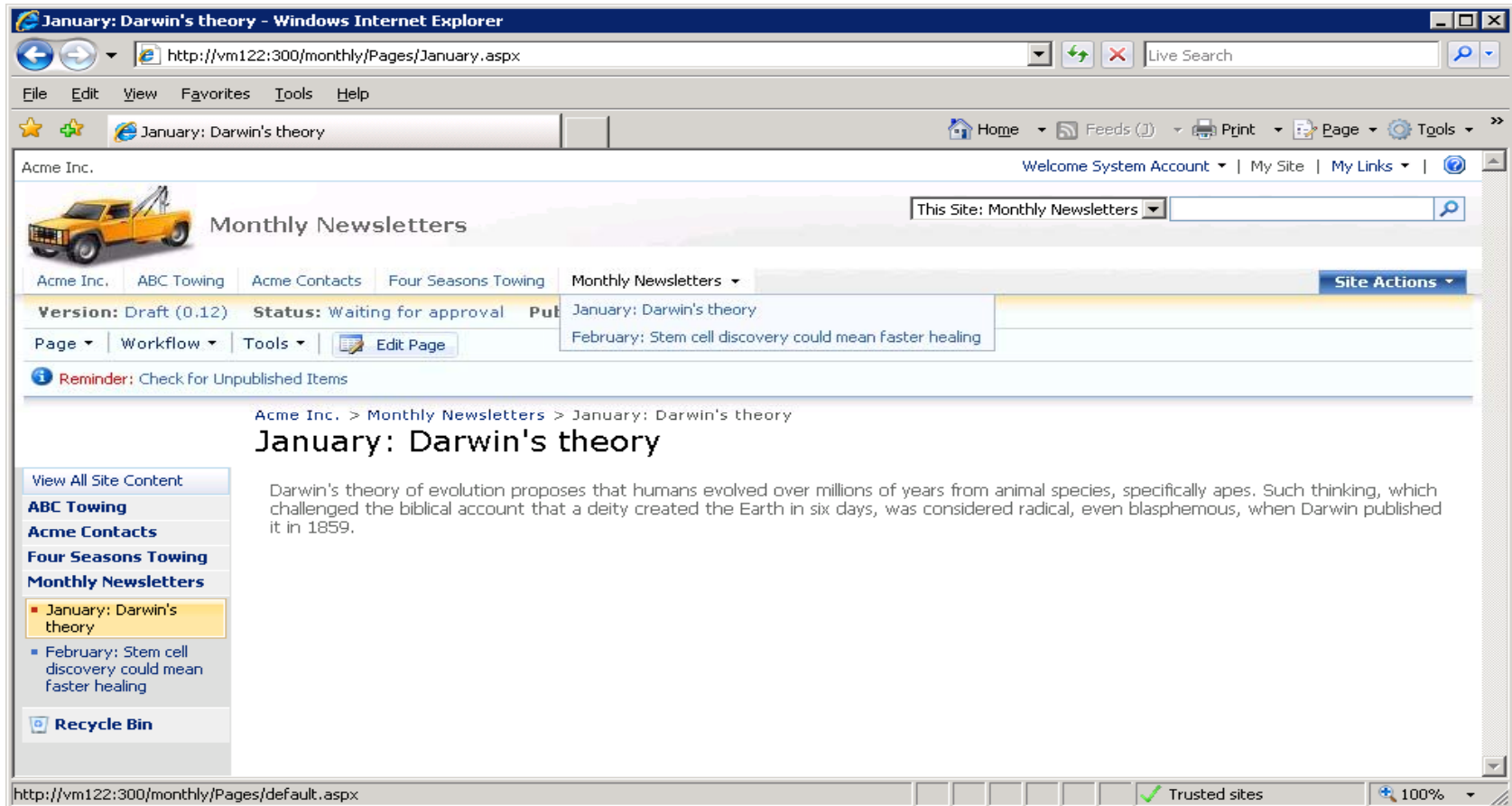
- Create a Contact

Sites

People and Groups

Recycle Bin

Acme Newsletter



Acme Sales Presentation

The Sales Presentation library is a library of PowerPoint documents.

Acme Inc. Welcome System Account | My Site | My Links |

Acme Inc. This List: Sales Presentation

Acme Inc. | [ABC Towing](#) | [Acme Contacts](#) | [Four Seasons Towing](#) | [Monthly Newsletters](#) | [Site Actions](#)

Acme Inc. > Sales Presentation
Sales Presentation

Sales Presentation PowerPoint Slides

[New](#) | [Upload](#) | [Actions](#) | [Settings](#) View: **All Documents**

Type	Name	Modified	<input type="radio"/> Modified By
	ch01_Planning	4/8/2009 11:15 AM	System Account
	ch02_Installing	4/8/2009 11:16 AM	System Account
	ch03_Configuring	4/8/2009 11:18 AM	System Account

Site Calendar

The site calendar is a shared calendar integrated with Outlook.

The screenshot shows a SharePoint site for Acme Inc. with a calendar view for April 2009. The calendar is displayed in a weekly view, showing events for the week of April 1st to 7th. The events are:

- 12:00 PM: 2009H1 Interview Presentation (on Wednesday, April 1st)
- 12:00 PM: 2009H1 Job Search Presentation (on Thursday, April 2nd)

The interface includes a navigation bar with 'Acme Inc.' and 'Site Actions', a search box, and a left sidebar with navigation links for 'Documents', 'Lists', and 'Reports'. The calendar view includes a month selector (April 2009), a view selector (Calendar), and expand/collapse options.

Acme Purchase Order (PO) Library

Acme Inc. > Purchase Order

Purchase Order

Ref No	Date	Tow Location	Vehicle Location	Distance	Rate	Estimated Cost	Service Provider	Vehicle Make	Vehicle Model	Current Mileage
ABC7122	4/13/2009	Edison, NJ	New York, NY	67	\$45.44	\$3,044.48	ABC Towing	Honda	Civic	45,
FOU4853	4/13/2009	Madison, NY	Edison, NJ	100	\$57.44	\$5,744.00	Four Seasons Towing	Honda	Accord	34,
ABC6292	4/13/2009	Piscataway, NJ	East Brunswick, NJ	20	\$34.45	\$689.00	ABC Towing	Honda	Accord	100,
FOU3987	4/13/2009	South Brunswick, NJ	Princeton, NJ	15	\$45.67	\$685.05	Four Seasons Towing	Toyota	Corolla	20,
ABC9212	4/14/2009	New York, NY	Mawah, NY	100	\$45.46	\$4,546.00	ABC Towing	Ford	Mustang	340,
FOU8545	4/15/2009	New York, NY	Edison, NJ	50	\$44.00	\$2,200.00	Four Seasons Towing	Honda	civic	20,
ABC2858	4/20/2009	destination	origination	23	\$7.50	\$172.50	ABC Towing	BMW	320i	23,

Acme PO Form

The ABC Towing and the Four Seasons Towing sub sites have their respective PO list libraries (not shown). New items can be added to the Acme library and to a vendor library by selecting the respective Service Provider (vendor) via a dropdown list, and by clicking the Create button in the Acme PO Form.

View All Site Content	Title	Purchase Order
Documents	Date	Thursday, April 30, 2009
▪ Sales Presentation	Service Details	
Lists	Tow to Location	<input type="text"/>
▪ Calendar	Vehicle Location	<input type="text"/>
▪ Purchase Order	Distance	<input type="text"/>
▪ Invoice	Rate	<input type="text"/>
Reports	Service Provider	ABC Towing <input type="button" value="v"/>
Dashboards	Vehicle information	
▪ Sample	Vehicle make	<input type="text"/>
Resources	Vehicle model	<input type="text"/>
▪ Data Connections	Current Mileage	<input type="text"/>
▪ Report Calendar	Year	<input type="text"/>
▪ Reference Library	Owner Information	
ABC Towing	Full name	<input type="text"/>
Acme Contacts	Telephone number	<input type="text"/>
Four Seasons Towing	Address	<input type="text"/>
Monthly Newsletters	City	<input type="text"/>
▪ January: Darwin's theory	State	<input type="text"/>
▪ February: Stem cell discovery could mean faster healing	Postal Code	<input type="text"/>
Recycle Bin		
		<input type="button" value="Create"/>

Invoice Form

All Service Providers have their Invoice Form in their respective sites.

Acme Inc. > ABC Towing

Reference Number:

Invoice Form

Invoice Number:

Invoice Date:

Reference Number:

Vehicle Information

Make:

Model:

Year:

Odometer:

Service Details

Vehicle Location:

Tow Destination:

Service Provider:

Details:

Charge:

Rate:

Acme Invoice Library

All submitted Invoices are stored in the Acme site's Invoice list library

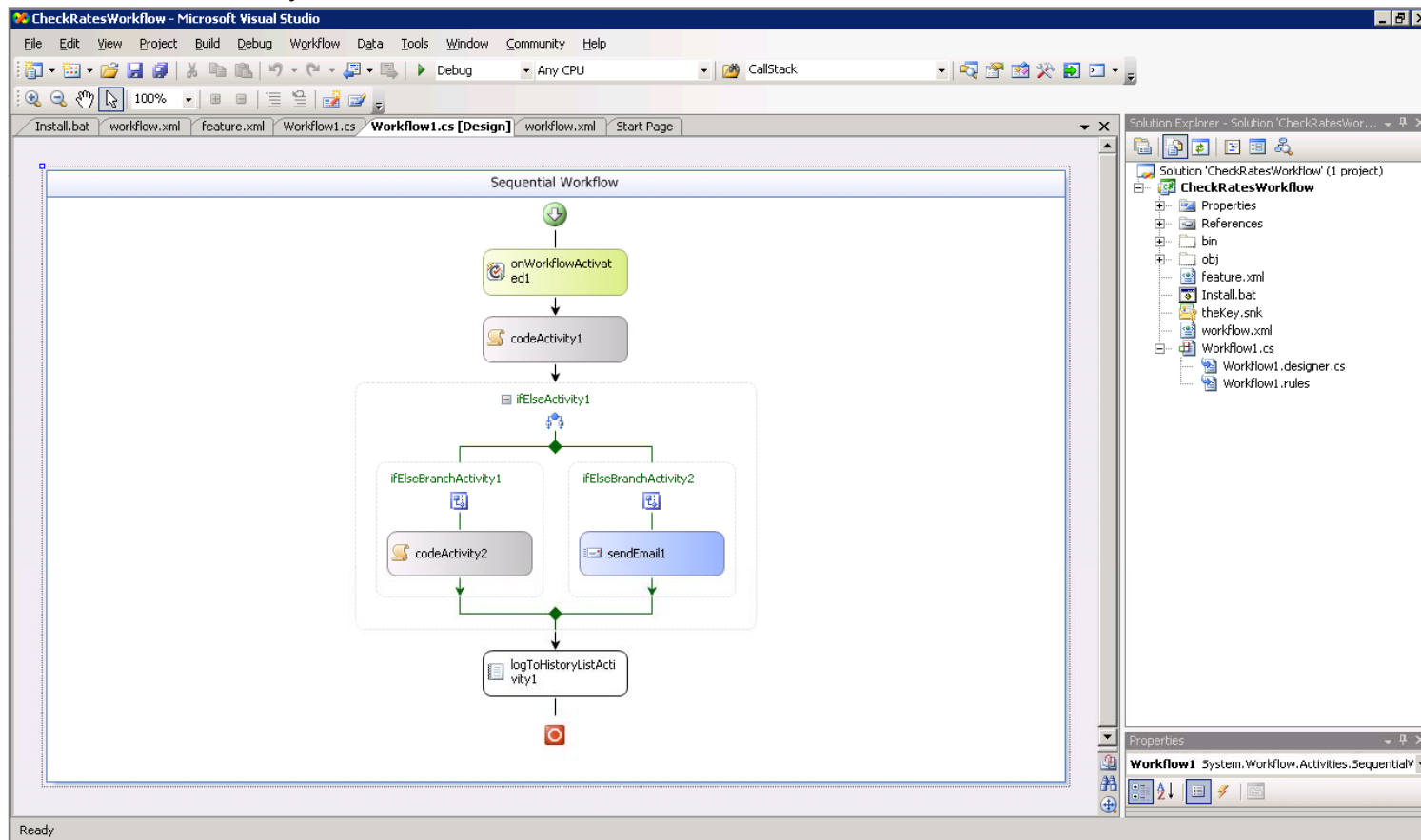
Acme Inc. > Invoice

Submitted Invoices

Invoice No	Ref No	Date	Status	Agreed Rate	Invoiced Rate	Invoiced Charge	Vehicle Make	Vehicle Model	Year	Current Mileage	Service Provider	Details	Note	Results
123	ABC9212	4/14/2009	Unpaid		\$35.44	\$105.00	Ford	Ford	2007	340,000	ABC Towing	Some details here		
678	FOU3987	4/15/2009	Unpaid	\$45.67	\$52.00	\$300.00	Toyota	Toyota	2009	20,000	Four Seasons Towing	Four Seasons, not Six		
234	ABC6292	4/15/2009	Unpaid	\$34.45	\$50.00	\$200.00	Honda	Honda	2003	100,000	ABC Towing	Tell me about it	The Invoiced Rate is more than 10% of the Agreed Rate	Completed

Workflow

A workflow (sequential) is attached to the Acme Invoice list library. The workflow is initiated when a new entry is detected.



Project 2: Design and establish a Solution Management Portal

Project Goals

- Create a Developer Knowledge Base to capture important knowledge about SharePoint and solution development
- Create a custom site template for new Solution Sites
- Create a custom Solution List Definition to display all the solution information. Prevent users from deleting any solution items from this list.
- Create a Solution content type that allows providing information about a solution and apply it to the Solution list
- Create a Change Management Requests List Definition to track all change management requests.
- Create a Change Management Request Form in InfoPath to allow managers to submit feature requests for a solution.
- Develop and deploy a custom web part to create new Solution sites using a specified template. Upon successful creation of a new Solution site, also add a new item in the Solution list.
- Develop and deploy a custom web part that displays all of the created Solution sites in a grid view. Users can delete a solution which will remove not only the item from the Solutions list but also the related sub-site.
- Create a Solution Dashboard sub-site to display information about existing solutions in different ways. Display Solution data using various web parts and elements of SharePoint Search. Create a Search Centre that allows targeted searches on Solution items, has a custom scope, and includes at least one keyword and best bet.
- Develop a custom search web part that does a custom Keyword search against SharePoint's Object Model and binds the results to a grid.

Acme Inc. Solution Management Portal

Acme Inc. Solution Management Portal

Home - Acme Inc. - Windows Internet Explorer provided by Comcast

http://cdcmoss:100/default.aspx

Welcome DEMO\administrator | This Site

Solution Management Web Part

Action	Title	Site Name	Site Description	Site Template	Site Url
Delete	Create Sites WebPart Solution	Create Sites WebPart Solution	This solution is to create a subsite using a template	Team Site	http://cdcmoss:100/createsites
Delete	Manage Sites WebPart Solution	Manage Sites WebPart Solution	This solution allows user to manage existing Solution sites	Wiki Site	http://cdcmoss:100/managesites
Delete	Change Management Request List Definition	Change Management Request List Definition	This solution is a custom List Definition for a Change Management Request List	Blank Site	http://cdcmoss:100/changemanagementlist

The Solution Site Web Part

Fill in the item below to create a new site below this site

Site Name:

Site Url:

Site Description:

Site Template:

Use Unique Permissions?

Solution Management

Title	SiteName	SiteUrl	SiteTemplate	SiteDescription
Create Sites WebPart Solution <small>NEW</small>	Create Sites WebPart Solution	http://cdcmoss:100/createsites	Team Site	This solution is to create a subsite using a template
Manage Sites WebPart Solution <small>NEW</small>	Manage Sites WebPart Solution	http://cdcmoss:100/managesites	Wiki Site	This solution allows user to manage existing Solution sites
Change Management Request List Definition <small>NEW</small>	Change Management Request List Definition	http://cdcmoss:100/changemanagementlist	Blank Site	This solution is a custom List Definition for a Change Management Request List

Code Behind

The Solution Portal is powered by the following WebPart

```
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;
using System.Data;

namespace SolutionManagementSiteWebPart
{
    [Guid("77e1f30f-f446-4ebe-862f-2dcaaf1094e8")]
    public class SolutionManagementSiteWebPart : WebPart
    {
        SPGridView gridView = null;
        DataTable dt = null;
        Button btnReturn = null;
        Label lblMsg = null;
        public SolutionManagementSiteWebPart()
        {
        }

        protected override void CreateChildControls()
        {
```

```
            base.CreateChildControls();
            ID = "SolutionManagementSiteWebPart";

            this.Controls.Clear();

            // Add custom rendering code here.
            this.Controls.Add(new LiteralControl
                ("<table cellpadding='1' border='0'
                width='100%'><tr>"));
            this.Controls.Add(new LiteralControl
                ("<td>"));

            GetDataGrid("Solutions");

            this.Controls.Add(new LiteralControl
                ("</td>"));
            this.Controls.Add(new LiteralControl
                ("<tr><td>"));

            lblMsg = new Label();
            this.Controls.Add(lblMsg);

            this.Controls.Add(new LiteralControl
                ("</td>"));

            this.Controls.Add(new LiteralControl
                ("</tr></table>"));
        }
```

Code Behind

WebPart Code contd..

```
protected override void OnLoad(EventArgs e)
{
    base.OnLoad(e);

    // we need this method to ensure the event
    // receiver fires
    EnsureChildControls();
}

private void GetDataGrid(string list)
{
    using (SPWeb oSPWeb = SPContext.Current.Web)
    {
        SPList solutionsList =
            oSPWeb.Lists[list];

        gridView = new SPGridView();
        gridView.AutoGenerateColumns = false;
        gridView.Width = Unit.Percentage(100);
        this.Controls.Add(gridView);

        CommandField colEditButton = new
            CommandField();
        colEditButton.HeaderText = "Action";
        colEditButton.ControlStyle.Width = new
            Unit(75);
```

```
colEditButton.SelectText = "Delete";
colEditButton.ShowDeleteButton =
    true;
gridView.Columns.Add(colEditButton);

gridView.RowDeleting += new
    GridViewDeleteEventHandler
        (itemDelete_Click);

BoundField colTitle = new
    BoundField();
colTitle.DataField = "Title";
colTitle.HeaderText = "Title";
gridView.Columns.Add(colTitle);

BoundField colSiteName = new
    BoundField();
colSiteName.DataField = "SiteName";
colSiteName.HeaderText = "Site Name";
gridView.Columns.Add(colSiteName);

BoundField colSiteDescription = new
    BoundField();
colSiteDescription.DataField =
    "SiteDescription";
```

Code Behind

WebPart Code contd..

```
colSiteDescription.HeaderText =
"Site Description";

gridView.Columns.Add(colSiteDescription);

BoundField colSiteTemplate = new
    BoundField();
colSiteTemplate.DataField = "SiteTemplate";
colSiteTemplate.HeaderText =
    "Site Template";
gridView.Columns.Add(colSiteTemplate);

HyperLinkField colSiteUrl = new
    HyperLinkField();
colSiteUrl.DataTextField = "SiteUrl";
colSiteUrl.DataNavigateUrlFields = new
    string[] { solutionsList.Fields["SiteUrl"]
        .ToString() };
colSiteUrl.HeaderText = "Site Url";
gridView.Columns.Add(colSiteUrl);

try
{
    dt = new DataTable();
    dt.Columns.Add("ID");
    dt.Columns.Add("Title");
    dt.Columns.Add("SiteName");
```

```
dt.Columns.Add("SiteDescription");
dt.Columns.Add("SiteTemplate");
dt.Columns.Add("SiteUrl");

foreach (SPLListItem item in
    solutionsList.Items)
{
    DataRow dr = dt.NewRow();

    dr["ID"] = item["ID"].ToString();
    dr["Title"] =
        item["Title"].ToString();
    dr["SiteName"] =
        item["SiteName"].ToString();
    dr["SiteDescription"] =
        item["SiteDescription"]
            .ToString();
    dr["SiteTemplate"] =
        item["SiteTemplate"]
            .ToString();
    dr["SiteUrl"] =
        GetUrl(item["SiteUrl"].
            ToString());

    dt.Rows.Add(dr);
}
```

Code Behind

WebPart Code contd..

```
        catch (Exception e)
        {
            lblMsg.Text = e.Message.ToString();
        }

        gridView.DataKeyNames = new string[] { "ID",
            "SiteUrl" };
        gridView.DataSource = dt;
        gridView.DataBind();

        // create a button to return the web part to
        // normal so more input can be done
        btnReturn = new Button();

        // simply postback to ourselves
        btnReturn.Text = "OK";
        btnReturn.PostBackUrl =
            SPContext.Current.Web.Url;

        // button is invisible to begin with
        btnReturn.Visible = false;
        this.Controls.Add(btnReturn);
    }

    private string GetUrl(string spurl)
    {
```

```
        // define which character is separating
        //fields
        char[] splitter = { ',' };
        string[] url = new string[spurl.Length];

        url = spurl.Split(splitter);
        return url[0].Trim();
    }

    private string GetrelativeUrl(string spurl)
    {
        // define which character is seperating
        // fields
        char[] splitter = { '/' };
        string[] url = new string[spurl.Length];

        url = spurl.Split(splitter);
        return url[url.Length].Trim();
    }

    protected void itemDelete_Click(object
        sender, GridViewDeleteEventArgs e)
    {
        // Retrieve the row index that contains
        // the button clicked by the user from
        // the Rows collection.
        Int32 index = e.RowIndex;
```

Code Behind

WebPart Code contd..

```
using (SPSite siteCollection = new
SPSite(SPContext.Current.Web.Url))
{
    using (SPWeb web =
siteCollection.OpenWeb())
    {
        String siteUrl = String.Empty;
        String url = String.Empty;

        // get the datakey of the row being
        // deleted
        DataKey key =
            gridView.DataKeys[index];
        int listItemID =
            Int32.Parse(key.Values["ID"].
                ToString());

        try
        {
            SPList solutionsList =
web.Lists["Solutions"];
            solutionsList.Items.
                DeleteItemById(listItemID);
        }
    }
}
```

```
catch(Exception ex)
{
    lblMsg.Text = ex.Message.ToString();
}

//listItems.DeleteItemById(listItemID);
siteUrl = (String)key.Values["SiteUrl"];

// split the url on the , and take the
// first section only
String splitUrl = siteUrl.Split(',')[0];

// remove all the first characters which
// are the site collection url
url = splitUrl.Remove(0,
    siteCollection.Url.Length + 1);

// now delete the site
siteCollection.AllWebs.Delete(url);
}

gridView.Visible = false;
btnReturn.Visible = true;
}
}
```

Experience Summary

- 14 years of IT experience
- Full life-cycle system development
- Requirements gathering
- WSS 3.0, MOSS 2007
- Visual Studio 2005/2008
- NET Framework and Common Type System, C#, .NET, ASP.NET, .NET Class Libraries, ADO.NET, .NET Remoting, Web Services
- Java Script, VB Script
- SQL Server 2000/2005, MS Access2000, ORACLE 7.3/8.0
- Queries, Stored Procedures, Query Optimization, Triggers
- Rational Rose 2000 Enterprise version
- CrystalReports, Infragistic NetAdvantage 3.0

Recommendations

April 28, 2009

To Whom It May Concern:

I had the pleasure of instructing Kaushik while he attended the SharePoint Master's Program at SetFocus LLC.

While here, he studied and worked with a wide variety of SharePoint features including:

- Custom and native web parts;
- Custom List Definitions;
- Content types and site columns;
- InfoPath Form development;
- Custom workflow using SharePoint Designer and Visual Studio;
- Branding using Master Pages and Themes;
- Event Receivers; and
- Deployment using SharePoint Features and Solutions

As part of the program, he undertook to complete two 1-week projects which were non-trivial, complicated, and required a great deal of programming and SharePoint customization. He and his fellow students completed their assignments three days ahead of schedule. I attribute this to their focus, enthusiasm, and solid understanding of the course material.

Adhering to best practices is vital to any successful SharePoint implementation. Since the program and the projects constantly emphasized this, Kaushik learned not only the many different ways to do something in SharePoint, but how to identify the optimum approach in a given situation. Because of this focus, it is my professional opinion that he is better prepared for SharePoint projects than most developers - who may have some experience but do not have that critical training and awareness.

I recommend Kaushik for a SharePoint developer or administrator position and feel that he would be a valuable addition to any team.

If you wish to discuss this recommendation, please don't hesitate to contact me at +1 (819) 918 6097 or by email at nick@griffonsolutions.com.

Sincerely,

Nicholas Kellett
CEO & Co-Founder,
Griffon Solutions
www.griffonsolutions.com
www.linkedin.com/in/nicholaskellett

Recommendations

April 27, 2009

To Whom It May Concern:

It is my pleasure to provide a recommendation for Kaushik Sengupta. Graduating from the SetFocus Master's Program, Kaushik excelled in our intense, integrated, in-depth, full time **SharePoint Training** Program

I was impressed by Kaushik's ability to work with many technologies during Kaushik's time with SetFocus. Kaushik has experience with the latest Microsoft SharePoint Technologies, including but not limited to Windows SharePoint Services 3.0 (WSS) and Microsoft SharePoint Server 2007 (MOSS).

Kaushik learned how to install and configure WSS 3.0 and MOSS 2007, develop and deploy SharePoint applications. This included

- Administering a SharePoint installation including setting up security groups, scheduling backups, managing site quotas, using stsadm.
- Setting up forms based authentication
- Creating site columns, content types and lists;
- Developing and deploying features
- Creating common site definitions, Web parts
- Web content management
- SharePoint Designer Workflows
- Using InfoPath forms
- Custom Workflows and Workflow forms
- Configuring and Incorporating Business Data Catalog Applications into Portal Solutions
- Implementing Microsoft Office SharePoint Server 2007 Excel Services, Forms Server
- Implementing Business Intelligence Dashboards and creating Report Center Web Sites
- Implementing Search and Indexing

I found Kaushik's excellent work ethic was demonstrated by Kaushik's ability to work in an environment with firm deadlines, very large workloads, and complex specifications. Kaushik delivers projects in a time efficient manner, is flexible with specification changes and is able to work within teams on assigned projects.

I recommend Kaushik as a solid addition to your a SharePoint staff. If you would like more information, I'd be happy to provide it.

Sincerely,

Robert Witkowski
Dean of Students
rwitkowski@setfocus.com