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using System;
using System.Drawing;
using System.Drawing.Drawing2D;
using System.Collections;
using System.ComponentModel;
using System.Windows.Forms;
using sb54_CSAI.MiscFormComponents;

namespace sb54_CSAI.ClientApp
{
    #region FrmClientLoader CLASS
    /// <summary>
    /// FrmClientLoader is a sub class of a <see cref="System.Windows.Forms.Form">Form </
    see>
    /// that provides the user of the ReMP3 remote client with the facility to pick
    /// a network computer where the ReMP3 application is running.
    /// </summary>
    public class FrmClientLoader : System.Windows.Forms.Form
    {
        #region Instance fields
        //Instance fields
        private FrmClient oFrmClient;
        private System.Windows.Forms.Panel oPnlTop;
        private System.Windows.Forms.PictureBox oPicTop;
        private System.Windows.Forms.Panel oPnlBlack;
        private System.Windows.Forms.Label oLblAvailableNodes;
        private System.Windows.Forms.ImageList oImgList_32;
        private System.Windows.Forms.ComboBox oCmbSvrAddress;
        private System.ComponentModel.IContainer components;
        #endregion
        #region Public Constructor
        /// <summary>
        /// Constructor, simply initalises all GUI components
        /// </summary>
        public FrmClientLoader()
        {
            // This call is required by the Windows.Forms Form Designer.
            InitializeComponent();
            //get the list of Domain PC's
            fetchComputersOnNetwork();
        }
        #endregion
        #region Public Methods
        /// <summary>
        /// The main entry point for the application.
        /// <br></br>
        /// <br></br>
        /// Expected Parameters : None
        /// </summary>
        [STAThread]
        static void Main()
        {
            //<feature>
            //Windows XP makes use of 2 types of common control comctl32.dll, however
            //only v6 provides theming facilities using the UxTheme.Dll. After lots of
            //messaging around I found the following article which allows the controls to
            //be themed correctly.
            //http://blogs.msdn.com/rprabhu/archive/2003/09/28/56540.aspx#62583
            //This article shows how to correctly switch the Windows XP
            //common controls from v5.8 (Non themed to v6.0 themed)
            //Essentially, when you call Application.EnableVisualStyles, we set
            //up an activation context around the application's message loop
            //provided by (Application.Run() method), so that comctl32 function calls
            //can be properly redirected to comctl32 v6.0.
            //like
            //
            //Application.EnableVisualStyles();
            //Application.DoEvents();
            ////Run new application
            //Application.Run(new FrmClientLoader());
            //
            //That way, you don't need to include a manifest with your app.
            // </feature>
        }
    }
}

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//
//However after i'd nearly completed my code, this method started to play up
//and started generating a InteropServices.SEHException: External component has
//thrown an exception. Which I looked into, and found the following article
//http://support.microsoft.com/default.aspx?scid=kb;en-us;830033
//which now solves the unknown issue with the SEHException being raised
//and provides un-buggy Theming.

//So create the theming the using the correct approach, by using the
//EnableThemingInScope class
using( new EnableThemingInScope( true ) )
{
    FrmClientLoader fLoader = new FrmClientLoader();
    fLoader.CreateControl();
    Application.Run(fLoader);
}

}

/// <summary>
/// Clean up any resources being used.
/// </summary>
/// <param name="disposing">true indicates the object should be disposed</param>
protected override void Dispose( bool disposing )
{
    //if being asked to dispose
    if( disposing )
    {
        //clean up the held resources
        if (components != null) { components.Dispose(); }
    }
    //call base class Dispose
    base.Dispose( disposing );
}
#endregion
#region Windows Form Designer generated code
/// <summary>
/// Required method for Designer support - do not modify
/// the contents of this method with the code editor.
/// </summary>
private void InitializeComponent()
{
    this.components = new System.ComponentModel.Container();
    System.Resources.ResourceManager resources = new System.Resources.
ResourceManager( typeof( FrmClientLoader ) );
    this.oPnlTop = new System.Windows.Forms.Panel();
    this.oPicTop = new System.Windows.Forms.PictureBox();
    this.oPnlBlack = new System.Windows.Forms.Panel();
    this.oCmbSvrAdress = new System.Windows.Forms.ComboBox();
    this.oLblAvailableNodes = new System.Windows.Forms.Label();
    this.oImgList_32 = new System.Windows.Forms.ImageList( this.components );
    this.oPnlTop.SuspendLayout();
    this.SuspendLayout();
    //
    // oPnlTop
    //
    this.oPnlTop.BackColor = System.Drawing.Color.CornflowerBlue;
    this.oPnlTop.Controls.Add( this.oPicTop );
    this.oPnlTop.Dock = System.Windows.Forms.DockStyle.Top;
    this.oPnlTop.Location = new System.Drawing.Point( 0, 0 );
    this.oPnlTop.Name = "oPnlTop";
    this.oPnlTop.Size = new System.Drawing.Size( 416, 88 );
    this.oPnlTop.TabIndex = 1;
    //
    // oPicTop
    //
    this.oPicTop.Image = ((System.Drawing.Image)(resources.GetObject("oPicTop.Image"
)));
    this.oPicTop.Location = new System.Drawing.Point( 8, 8 );
    this.oPicTop.Name = "oPicTop";
    this.oPicTop.Size = new System.Drawing.Size( 520, 80 );

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        this.oPicTop.TabIndex = 2;
        this.oPicTop.TabStop = false;
        //
        // oPnlBlack
        //
        this.oPnlBlack.BackColor = System.Drawing.Color.Silver;
        this.oPnlBlack.Dock = System.Windows.Forms.DockStyle.Top;
        this.oPnlBlack.ForeColor = System.Drawing.Color.FromArgb(((System.Byte)(64)), (
(System.Byte)(0)), ((System.Byte)(64)));
        this.oPnlBlack.Location = new System.Drawing.Point(0, 88);
        this.oPnlBlack.Name = "oPnlBlack";
        this.oPnlBlack.Size = new System.Drawing.Size(416, 20);
        this.oPnlBlack.TabIndex = 2;
        this.oPnlBlack.Paint += new System.Windows.Forms.PaintEventHandler(this.
oPnlBlack_Paint);
        //
        // oCmbSvrAdress
        //
        this.oCmbSvrAdress.DrawMode = System.Windows.Forms.DrawMode.OwnerDrawFixed;
        this.oCmbSvrAdress.DropDownStyle = System.Windows.Forms.ComboBoxStyle.
DropDownList;
        this.oCmbSvrAdress.ItemHeight = 32;
        this.oCmbSvrAdress.Location = new System.Drawing.Point(8, 168);
        this.oCmbSvrAdress.MaxDropDownItems = 2;
        this.oCmbSvrAdress.Name = "oCmbSvrAdress";
        this.oCmbSvrAdress.Size = new System.Drawing.Size(400, 38);
        this.oCmbSvrAdress.TabIndex = 3;
        this.oCmbSvrAdress.SelectedIndexChanged += new System.EventHandler(this.
oCmbSvrAdress_SelectedIndexChanged);
        this.oCmbSvrAdress.DrawItem += new System.Windows.Forms.DrawItemEventHandler
(this.oCmbSvrAdress_DrawItem);
        //
        // oLblAvailableNodes
        //
        this.oLblAvailableNodes.Font = new System.Drawing.Font("Microsoft Sans Serif", 8
.25F, System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point, ((System.Byte)
(0)));
        this.oLblAvailableNodes.Location = new System.Drawing.Point(8, 152);
        this.oLblAvailableNodes.Name = "oLblAvailableNodes";
        this.oLblAvailableNodes.Size = new System.Drawing.Size(296, 16);
        this.oLblAvailableNodes.TabIndex = 4;
        this.oLblAvailableNodes.Text = "Computers Available On Your Network";
        //
        // oImgList_32
        //
        this.oImgList_32.ColorDepth = System.Windows.Forms.ColorDepth.Depth32Bit;
        this.oImgList_32.ImageSize = new System.Drawing.Size(32, 32);
        this.oImgList_32.ImageStream = ((System.Windows.Forms.ImageListStreamer)
(resources.GetObject("oImgList_32.ImageStream")));
        this.oImgList_32.TransparentColor = System.Drawing.Color.Transparent;
        //
        // FrmClientLoader
        //
        this.AutoScaleBaseSize = new System.Drawing.Size(5, 13);
        this.BackColor = System.Drawing.SystemColors.ControlLightLight;
        this.ClientSize = new System.Drawing.Size(416, 214);
        this.Controls.Add(this.oLblAvailableNodes);
        this.Controls.Add(this.oCmbSvrAdress);
        this.Controls.Add(this.oPnlBlack);
        this.Controls.Add(this.oPnlTop);
        this.Icon = ((System.Drawing.Icon)(resources.GetObject("$this.Icon")));
        this.MaximizeBox = false;
        this.MinimizeBox = false;
        this.Name = "FrmClientLoader";
        this.SizeGripStyle = System.Windows.Forms.SizeGripStyle.Hide;
        this.StartPosition = System.Windows.Forms.FormStartPosition.CenterScreen;
        this.Text = "Re-MP3 Client : Remote Client";
        this.oPnlTop.ResumeLayout(false);
        this.ResumeLayout(false);
    }
#endregion
#region Private Methods

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    /// <summary>
    /// Uses the <see cref="sb54_CSAI.ClientApp.NetworkBrowser">network browser class, </
see>
    /// getNetworkComputers() method to retrieve a collection of all Domain PC's and
adds them
    /// to a combo box, ready for the ReMP3 client to use to select where the ReMP3
server
    /// application is running
    /// </summary>
private void fetchComputersOnNetwork()
{
    //create new NetworkBrowser object, and call the getNetworkComputers
//to retrieve the collection of all Domain PC's and add them
//to a combo box
    NetworkBrowser net = new NetworkBrowser();
    ArrayList pcs = net.getNetworkComputers();
    if (pcs != null)
    {
        System.Collections.IEnumerator pcsEnum = pcs.GetEnumerator();
        while ( pcsEnum.MoveNext() )
        {
            oCmbSvrAdress.Items.Add(pcsEnum.Current.ToString());
        }
        //start with no PC selected
        oCmbSvrAdress.SelectedIndex = -1;
    }
}

#region GUI look and feel methods

    /// <summary>
    /// Event handler that occurs when the frmClientLodaer paints
    /// Simply paints the the top panel
    /// </summary>
    /// <param name="sender">The source object that raised the event</param>
    /// <param name="e">The event arguments</param>
private void oPnlBlack_Paint(object sender, System.Windows.Forms.PaintEventArgs e)
{
    base.OnPaint(e);
    //draw the rectangle
    Graphics g = e.Graphics;

    Pen penBlack = new Pen(Color.Black);
    Rectangle r = new Rectangle(0,0,oPnlBlack.Size.Width,oPnlBlack.Size.Height);
    g.DrawRectangle(penBlack,r);
    Brush divBrush = new HatchBrush(HatchStyle.Divot,Color.Gray,Color.Black);
    g.FillRectangle(divBrush,r);

    //draw the text
    Brush whBrush = new SolidBrush(Color.White);
    Font f = new Font("Tahoma",8,FontStyle.Bold);
    Point drawPoint = new Point(5, 2);
    // Draw string to screen.
    g.DrawString("Pick The Computer That Is Running The Re-MP3 Server Application",f
,whBrush,drawPoint);
}

    /// <summary>
    /// Event handler that occurs when the PC Names comobo box items are drawn
    /// Simply draw our own custom style combo box items.
    /// </summary>
    /// <param name="sender">The source object that raised the event</param>
    /// <param name="e">The event arguments</param>
private void oCmbSvrAdress_DrawItem(object sender, System.Windows.Forms.
DrawItemEventArgs e)
{
    //check index is valid
    if (e.Index != -1)
    {
        // Draw the background of the ComboBox control for each item.
        e.DrawBackground();
    }
}

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        Image img = oImgList_32.Images[0];
        e.Graphics.DrawImage(img, new Point(e.Bounds.X, e.Bounds.Y));

        // Draw the current item text based on the current Font and the custom brush
settings.
        e.Graphics.DrawString(oCmbSvrAdress.Items[e.Index].ToString(), e.Font,
Brushes.Black,
        new Point(img.Width*2,e.Bounds.Y + e.Bounds.Height/3));
        e.Graphics.DrawImage(img, new Point(e.Bounds.X, e.Bounds.Y));

        // If the ComboBox has focus, draw a focus rectangle around the selected
item.
        e.DrawFocusRectangle();
    }
}
#endregion
#region GUI User interactions

/// <summary>
/// Event handler that occurs when user selects different PC name.
/// When the user selects PC name the <see cref="sb54_CSAI.ClientApp.FrmClient">
/// ReMP3 client form </see> is shown, and the <see cref="sb54_CSAI.ClientApp.
CliConfigInfo">
/// ReMP3 client configuration svrAdress </see> is set be that which the user
selected
/// </summary>
/// <param name="sender">The source object that raised the event</param>
/// <param name="e">The event arguments</param>
private void oCmbSvrAdress_SelectedIndexChanged(object sender, System.EventArgs e)
{
    //set the configuration svrAdress to that which user selected
    CliConfigInfo.svrAdress = oCmbSvrAdress.Items[oCmbSvrAdress.SelectedIndex].
ToString();
    //If the .NET remoting could be be setup without failure, continue to show
    //the oFrmClient
    if (ClientRemoting.setupRemoting())
    {
        oFrmClient = new FrmClient();
        oFrmClient.Show();
        this.Hide();
    }
    //Otherwise Dispose of this form, user will have to try again, there was
    //an error with the .NET remoting
    else
    {
        this.Dispose();
    }
}
#endregion

#endregion
}
#endregion
}

```