APRENDIZAJE

activex

#activex

Tabla de contenido

Acerca de

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Capítulo 1: Empezando con ActiveX

Observaciones

Esta sección proporciona una descripción general de qué es Activex y por qué un desarrollador puede querer usarlo.

También debe mencionar cualquier tema grande dentro de activex, y vincular a los temas relacionados. Dado que la Documentación para activex es nueva, es posible que deba crear versiones iniciales de esos temas relacionados.

Examples

Primera guía de creación ActiveX en Visual Studio C

Pasos de creacion

1. Inicie Visual Studio 2013 como administrador
2. Instalar la extensión de Visual Studio Microsoft Visual Studio Installer Projects
3. Crear un proyecto de biblioteca de clases (WinFormActivex)
4. Cree su formulario de ventana de ejemplo (MainWindow)
5. Crear una nueva interfaz de componente (ILauncher)
6. Crear una nueva interfaz de seguridad (IObjectSafety)
7. Cree el control de componentes (Launcher) que implementa las interfaces e inicie la ventana.
8. Comprueba que todos los GUID son generados por ti
9. Compruebe que el proyecto está marcado para COM
10. Cree el proyecto de instalación (LauncherInstaller) con la salida primaria de WinFormActivex con la propiedad `Register = vsdrpCOM`
11. Instalar LauncherInstaller
12. Ejecuta tu página de prueba en el explorador (test.html)

MainWindow Puedes crear un formulario normal, aquí se genera previamente.

```
public partial class MainWindow : Form
{
    public MainWindow()
    {
        InitializeComponent();
    }

    /// <summary>
    /// Required designer variable.
    /// </summary>
    private System.ComponentModel.IContainer components = null;

    /// <summary>
    /// Clean up any resources being used.
```

```
    /// </summary>
    /// <param name="disposing">true if managed resources should be disposed; otherwise,
false.</param>
    protected override void Dispose(bool disposing)
    {
        if (disposing && (components != null))
        {
            components.Dispose();
        }
        base.Dispose(disposing);
    }

    #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.textBox1 = new System.Windows.Forms.TextBox();
        this.textBox2 = new System.Windows.Forms.TextBox();
        this.SuspendLayout();
        //
        // textBox1
        //
        this.textBox1.Location = new System.Drawing.Point(42, 23);
        this.textBox1.Name = "textBox1";
        this.textBox1.Size = new System.Drawing.Size(100, 20);
        this.textBox1.TabIndex = 0;
        //
        // textBox2
        //
        this.textBox2.Location = new System.Drawing.Point(42, 65);
        this.textBox2.Name = "textBox2";
        this.textBox2.Size = new System.Drawing.Size(100, 20);
        this.textBox2.TabIndex = 0;
        //
        // MainWindow
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.ClientSize = new System.Drawing.Size(284, 261);
        this.Controls.Add(this.textBox2);
        this.Controls.Add(this.textBox1);
        this.Name = "MainWindow";
        this.Text = "MainWindow";
        this.ResumeLayout(false);
        this.PerformLayout();

    }

    #endregion

    private System.Windows.Forms.TextBox textBox1;
    private System.Windows.Forms.TextBox textBox2;
}
```

ILauncher

```
using System.Runtime.InteropServices;
namespace WinFormActivex
{
    [ComVisible(true)]
    [InterfaceType(ComInterfaceType.InterfaceIsDual)]
    [Guid("94D26775-05E0-4B9C-BC73-C06FE915CF89")]
    public interface ILauncher
    {
        void ShowWindow();
    }
}
```

Seguridad de objetos

```
[ComImport()]
[Guid("51105418-2E5C-4667-BFD6-50C71C5FD15C")]
[InterfaceType(ComInterfaceType.InterfaceIsIUnknown)]
interface IObjectSafety
{
    [PreserveSig()]
    int GetInterfaceSafetyOptions(ref Guid riid, out int pdwSupportedOptions, out int
pdwEnabledOptions);
    [PreserveSig()]
    int SetInterfaceSafetyOptions(ref Guid riid, int dwOptionSetMask, int dwEnabledOptions);
    }
```

Lanzador Por favor genere su GUID aquí.

```
 [ComVisible(true)]
 [ClassInterface(ClassInterfaceType.None)]
 [Guid("D100C392-030A-411C-92B6-4DBE9AC7AA5A")]
 [ProgId("WinFormActivex.Launcher")]
 [ComDefaultInterface(typeof(ILauncher))]
 public class Launcher : UserControl, ILauncher, IObjectSafety
 {
     #region [ ILauncher ]

     public void ShowWindow()
     {
         var f = new MainWindow();
         f.StartPosition = FormStartPosition.Manual;
         f.Location = Screen.AllScreens[0].Bounds.Location;
         f.WindowState = FormWindowState.Normal;
         f.WindowState = FormWindowState.Maximized;
         f.ShowInTaskbar = false;
         f.Show();
     }

     #endregion

     #region [ IObjectSafety ]

     public enum ObjectSafetyOptions
     {
         INTERFACESAFE_FOR_UNTRUSTED_CALLER = 0x00000001,
         INTERFACESAFE_FOR_UNTRUSTED_DATA = 0x00000002,
         INTERFACE_USES_DISPEX = 0x00000004,
         INTERFACE_USES_SECURITY_MANAGER = 0x00000008
     };
```

```
    public int GetInterfaceSafetyOptions(ref Guid riid, out int pdwSupportedOptions, out int
pdwEnabledOptions)
    {
        ObjectSafetyOptions m_options =
ObjectSafetyOptions.INTERFACESAFE_FOR_UNTRUSTED_CALLER |
ObjectSafetyOptions.INTERFACESAFE_FOR_UNTRUSTED_DATA;
        pdwSupportedOptions = (int)m_options;
        pdwEnabledOptions = (int)m_options;
        return 0;
    }

    public int SetInterfaceSafetyOptions(ref Guid riid, int dwOptionSetMask, int
dwEnabledOptions)
    {
        return 0;
    }

    #endregion
 }
```

test.html Por favor verifique que su CLSID coincida con el GUID (Iniciador).

```
<html>
    <head>
        <objectname="activexLauncher" style='display:none' id='activexLauncher'
classid='CLSID:D100C392-030A-411C-92B6-4DBE9AC7AA5A' codebase='WinFormActivex'></object>
      <script language="javascript">
        <!-- Load the ActiveX object  -->
        var x = new ActiveXObject("WinFormActivex.Launcher");
        alert(x.GetText());
      </script>
    </head>
    <body>
    </body>
</html>
```

Referencias

- Pregunta de desbordamiento de pila que siempre uso como referencia
- Etiqueta ActiveX que debes leer
- Antigua guía de Microsoft
- Artículo sobre la creación del control de acrivex con opciones de seguridad.
- Artículo sobre la creación de la ventana.

Lea Empezando con ActiveX en línea: https://riptutorial.com/es/activex/topic/10910/empezando-con-activex

Creditos

S. No	Capítulos	Contributors
1	Empezando con ActiveX	Community, Giulio Caccin