

當我們思考如何設計一個系統時，我們需要考慮到許多不同的方面。

我們需要考慮到系統的架構、數據的存儲、用戶的交互以及系統的安全性。



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```
using System.Reflection;

namespace WindowsFormsApplication2
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();

            private void button1_Click(object sender, EventArgs e)
            {
                OpenFileDialog openfile = new OpenFileDialog();
                openfile.Filter = "Assemblies (*.exe;*.dll)|*.exe;*.dll|All files (*.*)|*.*";

                if (openfile.ShowDialog() == DialogResult.OK)
                {
                    AssemblyName.Text = openfile.FileName;
                    Mytree.Nodes.Clear();

                    Assembly assembly = Assembly.LoadFrom(AssemblyName.Text);
                    foreach (Type t in assembly.GetTypes())
                    {
                        TreeNode Nodes = new TreeNode("TeeNode-> " + t.Name);
                        Mytree.Nodes.Add(Nodes);

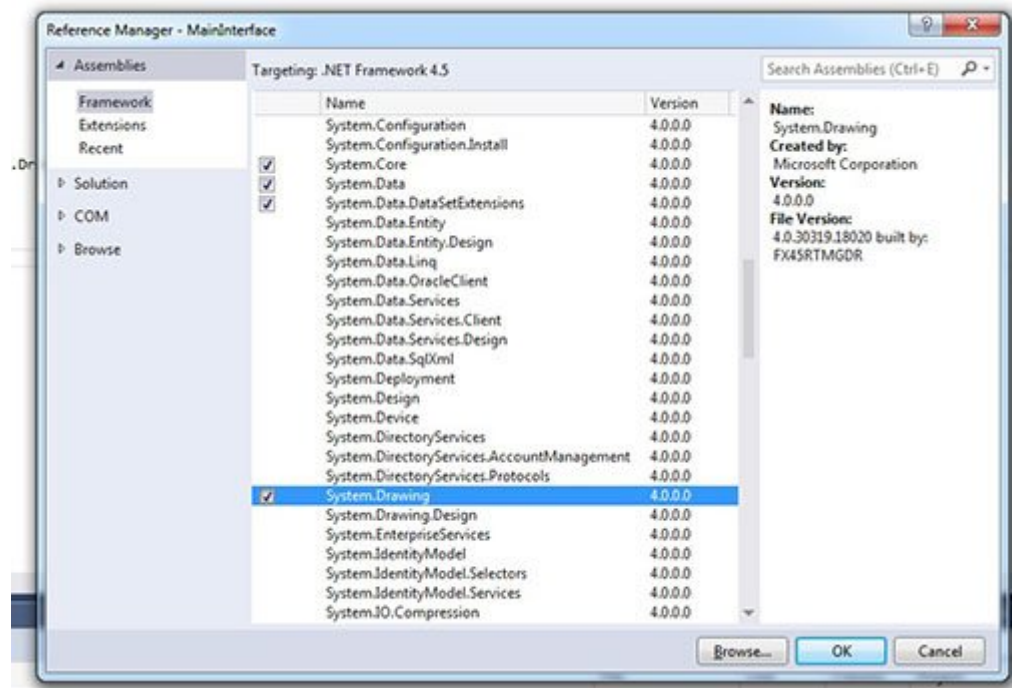
                        foreach (MethodInfo mi in t.GetMethods())
                        {
                            Nodes.Nodes.Add(new TreeNode("Methods-> " + mi.Name));
                        }
                    }
                }
            }
        }
    }
}
```


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```
using System;  
using System.Collections.Generic;  
using System.Linq;  
using System.Text;
```

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```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Drawing;
using MainInterface;

namespace MyRotate
{
    public class Class1 : MyImageAddon
    {
        public Image RunAddon(Image image)
        {
            Bitmap bitmap1 = new Bitmap(image);
```

```

        Bitmap bitmap2 = new Bitmap(image);
        for (int row = 0; row < bitmap1.Height; ++row)
        {
for (int col = 0; col < bitmap1.Width; ++col)
            {
                bitmap2.SetPixel(bitmap1.Width - col - 1, bitmap1.Height - row - 1,bitmap1.GetPixel(col, row));
            }
        }
        bitmap1.Dispose();
        return bitmap2;
    }

    public string Name
    {
        get
        {
            return "Invert Image";
        }
    }
}
}
}

```

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```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using MainInterface;
using System.Reflection;
using System.IO;

namespace MyPicture
{
    public partial class Form1 : Form
    {

```

```

private Dictionary<string, MainInterface.MyImageAddon> Addon=
new Dictionary<string, MainInterface.MyImageAddon>();

public Form1()
{
    InitializeComponent();
    Assembly assembly = Assembly.GetExecutingAssembly();
    string path = Path.GetDirectoryName(assembly.Location);
    LoadAddons(path);
    CreateMenu();
}

private void LoadAddons(string path)
{
    Addon.Clear();
    foreach (string dll in Directory.GetFiles(path, "*.dll"))
    {
        try
        {
            Assembly assembly = Assembly.LoadFrom(dll);
            foreach (Type type in assembly.GetTypes())
            {
                if (type.GetInterface("MyImageAddon") == typeof(MainInterface.MyImageAddon))
                {
                    MyImageAddon plugin = Activator.CreateInstance(type) as MyImageAddon;
                    Addon[plugin.Name] = plugin;
                }
            }
        }
        catch (BadImageFormatException)
        {
        }
    }
}

private void CreateMenu()
{
    toolStripMenuItem1.DropDownItems.Clear();
    foreach (var pair in Addon)
    {
        ToolStripMenuItem toolstrip=new ToolStripMenuItem(pair.Key);
        toolstrip.Click += new EventHandler(menuItem);
        toolStripMenuItem1.DropDownItems.Add(toolstrip);
    }
}

void menuItem(object sender, EventArgs e)
{
    ToolStripMenuItem menuItem = sender as ToolStripMenuItem;
    MainInterface.MyImageAddon plugin = Addon[menuItem.Text];
    try
    {

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```

        pictureBox1.Image = plugin.RunAddon(pictureBox1.Image);
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message, "Plugin is not valid");
    }
}

private void button1_Click(object sender, EventArgs e)
{
    System.Windows.Forms.OpenFileDialog openImage = new OpenFileDialog();
    openImage.Filter = "All images (*.bmp, *.png, *.jpg)|*.bmp;*.png;*.jpg";
    if (openImage.ShowDialog() == DialogResult.OK)
    {
        pictureBox1.Image = Image.FromFile(openImage.FileName);
    }
}
}
}

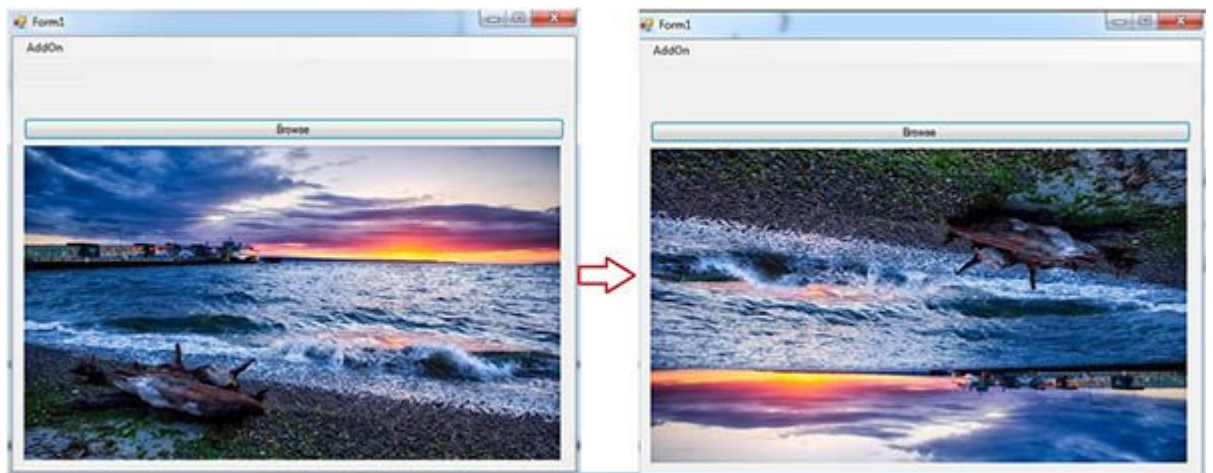
```

이 코드는 플러그인 (DLL) 로부터 이미지를 로드하고, 로드된 이미지를 pictureBox1에 표시하는 기능을 구현합니다. 또한, OpenFileDialog를 사용하여 모든 이미지 파일 형식 (*.bmp, *.png, *.jpg)을 선택할 수 있도록 설정하고, 선택된 파일을 pictureBox1에 로드합니다.

이 코드는 Browse 버튼을 클릭하면, OpenFileDialog를 사용하여 이미지를 선택할 수 있도록 합니다. 선택된 이미지는 pictureBox1에 표시됩니다.

이 코드는 Invert 버튼을 클릭하면, pictureBox1에 표시된 이미지를 반전시킵니다. 반전된 이미지는 pictureBox1에 표시됩니다.

이 코드는 4개의 버튼을 사용하여 이미지를 선택하고, 이미지를 반전시키고, 이미지를 로드하고, 이미지를 표시합니다.



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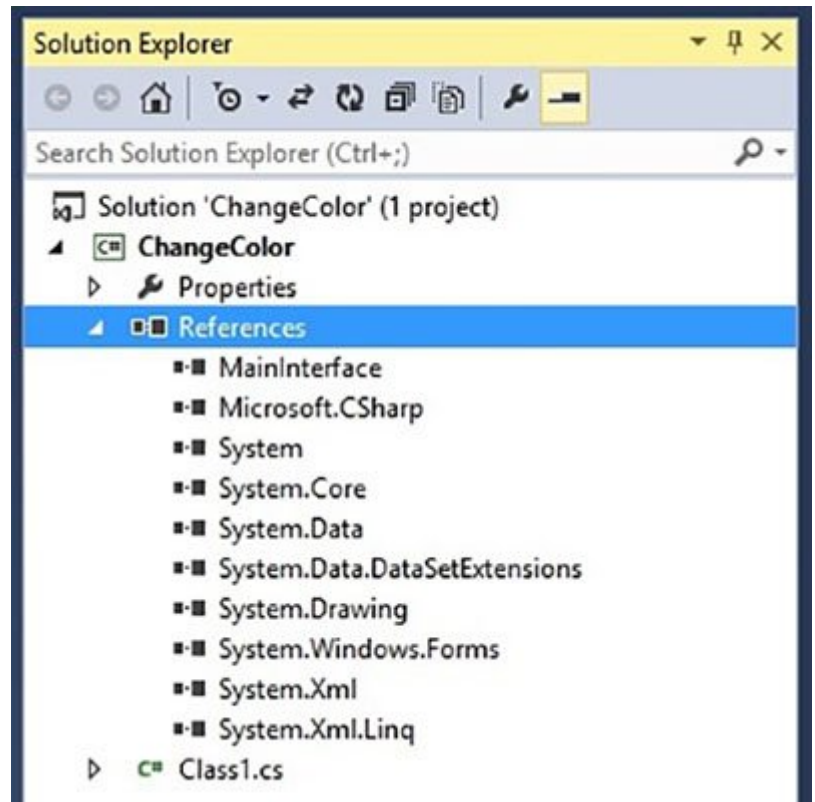
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```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using MainInterface;
using System.Drawing;
using System.Windows.Forms;
namespace ChangeColor
{
    public class Class1:MyImageAddon
    {
        public System.Drawing.Image RunAddon(System.Drawing.Image image)
        {
            ColorDialog color = new ColorDialog();
            Color color2;

            if (color.ShowDialog() == DialogResult.OK)
            {
                color2 = color.Color;
            }
            else
            {
                color2 = Color.BlueViolet;
            }
            Bitmap bitmap = new Bitmap(image);

            for (int row = 0; row < bitmap.Height; ++row)
            {
```

```

for (int col = 0; col < bitmap.Width; ++col)
{
    color2 = bitmap.GetPixel(col, row);
    if (color2.B > 0 )
    {
color2 = Color.FromArgb(color2.A, color2.R, color2.G, color.Color.B);

    }
    else if (color2.G > 0)
    {
color2 = Color.FromArgb(color2.A, color2.R, color.Color.G, color2.B);
    }
    else if(color2.R > 0)
    {
color2 = Color.FromArgb(color2.A, color.Color.R, color.Color.G, color2.B);
    }
    bitmap.SetPixel(col, row, color2);
}

return bitmap;
}

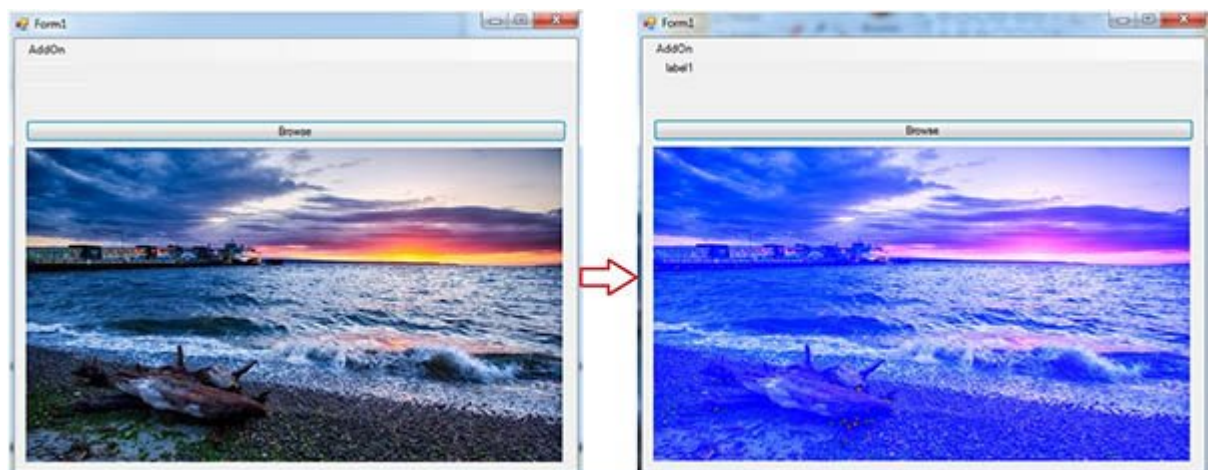
public string Name
{
    get { return "Change Color image"; }
}
}
}

```

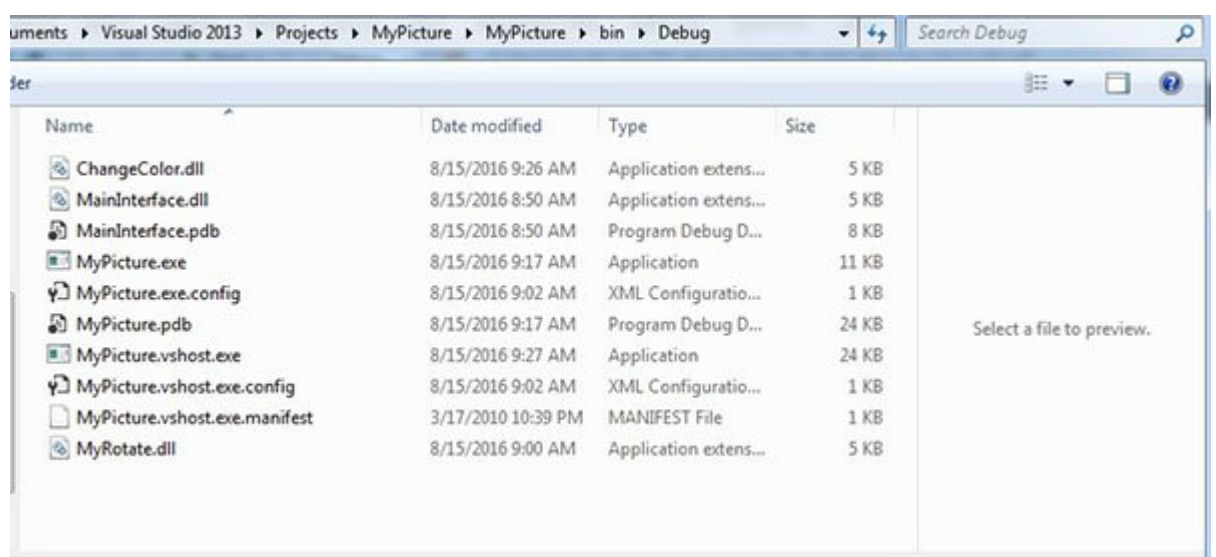
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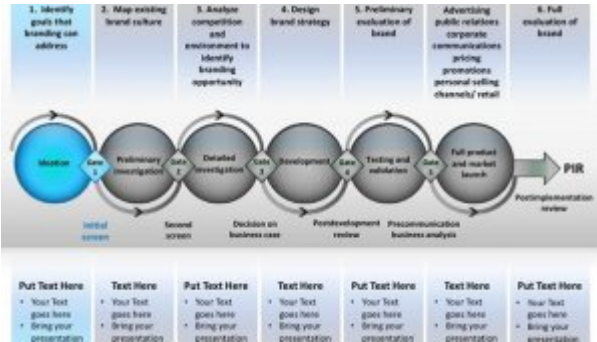
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شماره: ۵۰۳۹

تاریخ: ۲۵/۰۷/۱۳۹۵

صفحه: ۱

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<https://www.shabakeh-mag.com/workshop/5039>: ...