

Populating Tree View control from Xml file

Source <http://www.dotnetspider.com/kb/Article2022.aspx>

Introduction

Last few days back. I populated a tree view from xml file.

I think it may useful for so many developers. So I want to provide code for you. Here just change the file path and use it in your applications.

Code:

```
private void get_Click(object sender, System.EventArgs e)
{
    try
    {
        string _XPath = "xml";
        string _rootNode = "Tree Demo";
        string _filePath = @"e:\x.xml";

        // Load the XML file .

        XmlDocument xd = new XmlDocument();
        xd.Load(_filePath);

        // Load the XML into the TreeView.

        studentsTree.Nodes.Clear();
        studentsTree.Nodes.Add(new
TreeNode(_rootNode));

        TreeNode tn = new TreeNode();
        tn = studentsTree.Nodes[0];

        XmlNodeList nodes = xd.SelectNodes(_XPath);
        XmlNode xnode = nodes.Item(0).ParentNode;

        AddNode(ref xnode, ref tn);

        studentsTree.CollapseAll();
        studentsTree.Nodes[0].Expand();
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message, "Error");
    }
}
```

```
    }

private void AddNode(ref XmlNode inXmlNode, ref TreeNode inTreeNode)
{
    // Recursive routine to walk the XML DOM and add its
nodes to a TreeView.
    XmlNode    xNode;
    TreeNode    tNode;
    XmlNodeList nodeList;
    int i;

    // Loop through the XML nodes until the leaf is
reached.
    // Add the nodes to the TreeView during the looping
process.
    if (inXmlNode.HasChildNodes)
    {
        nodeList = inXmlNode.ChildNodes;
        for (i = 0; i <= nodeList.Count - 1; i++)
        {
            xNode = inXmlNode.ChildNodes[i];
            inTreeNode.Nodes.Add(new
TreeNode(xNode.Name));

            tNode = inTreeNode.Nodes[i];
            AddNode(ref xNode, ref tNode);
        }
    }
    else
    {
        inTreeNode.Text = inXmlNode.OuterXml.Trim();
    }
}

private void button3_Click(object sender, System.EventArgs e)
{
    if (button3.Text == "Expand")
    {
        studentsTree.ExpandAll();
        button3.Text = "Collapse";
    }
    else
    {
        studentsTree.CollapseAll();
        studentsTree.Nodes[0].Expand();
        button3.Text = "Expand";
    }
}
```

Summary

This article gives you the code for populating tree view control from an xml file.

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