using System;

using System.IO;

using System.Windows.Forms;

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

PopulateTreeView();

treeView1.AfterSelect += TreeView1\_AfterSelect;

}

private void PopulateTreeView()

{

TreeNode rootNode;

foreach (var drive in DriveInfo.GetDrives())

{

if (drive.IsReady)

{

rootNode = new TreeNode(drive.Name)

{

Tag = drive

};

GetDirectories(drive.RootDirectory.GetDirectories(), rootNode);

treeView1.Nodes.Add(rootNode);

}

}

}

private void InitializeComponent()

{

this.treeView1 = new System.Windows.Forms.TreeView();

this.listView1 = new System.Windows.Forms.ListView();

this.columnHeader1 = ((System.Windows.Forms.ColumnHeader)(new System.Windows.Forms.ColumnHeader()));

this.columnHeader2 = ((System.Windows.Forms.ColumnHeader)(new System.Windows.Forms.ColumnHeader()));

this.columnHeader3 = ((System.Windows.Forms.ColumnHeader)(new System.Windows.Forms.ColumnHeader()));

this.columnHeader4 = ((System.Windows.Forms.ColumnHeader)(new System.Windows.Forms.ColumnHeader()));

this.SuspendLayout();

//

// treeView1

//

this.treeView1.Dock = System.Windows.Forms.DockStyle.Left;

this.treeView1.Location = new System.Drawing.Point(0, 0);

this.treeView1.Name = "treeView1";

this.treeView1.Size = new System.Drawing.Size(200, 450);

this.treeView1.TabIndex = 0;

//

// listView1

//

this.listView1.Columns.AddRange(new System.Windows.Forms.ColumnHeader[] {

this.columnHeader1,

this.columnHeader2,

this.columnHeader3,

this.columnHeader4});

this.listView1.Dock = System.Windows.Forms.DockStyle.Fill;

this.listView1.Location = new System.Drawing.Point(200, 0);

this.listView1.Name = "listView1";

this.listView1.Size = new System.Drawing.Size(600, 450);

this.listView1.TabIndex = 1;

this.listView1.UseCompatibleStateImageBehavior = false;

this.listView1.View = System.Windows.Forms.View.Details;

//

// columnHeader1

//

this.columnHeader1.Text = "Name";

this.columnHeader1.Width = 150;

//

// columnHeader2

//

this.columnHeader2.Text = "Size";

this.columnHeader2.Width = 100;

//

// columnHeader3

//

this.columnHeader3.Text = "Type";

this.columnHeader3.Width = 100;

//

// columnHeader4

//

this.columnHeader4.Text = "Date Modified";

this.columnHeader4.Width = 150;

//

// Form1

//

this.AutoScaleDimensions = new System.Drawing.SizeF(8F, 16F);

this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

this.ClientSize = new System.Drawing.Size(800, 450);

this.Controls.Add(this.listView1);

this.Controls.Add(this.treeView1);

this.Name = "Form1";

this.Text = "Form1";

this.ResumeLayout(false);

}

private void GetDirectories(DirectoryInfo[] subDirs, TreeNode nodeToAddTo)

{

TreeNode aNode;

DirectoryInfo[] subSubDirs;

foreach (DirectoryInfo subDir in subDirs)

{

aNode = new TreeNode(subDir.Name, 0, 0)

{

Tag = subDir,

ImageKey = "folder"

};

subSubDirs = subDir.GetDirectories();

if (subSubDirs.Length != 0)

{

GetDirectories(subSubDirs, aNode);

}

nodeToAddTo.Nodes.Add(aNode);

}

}

private void TreeView1\_AfterSelect(object sender, TreeViewEventArgs e)

{

TreeNode newSelected = e.Node;

listView1.Items.Clear();

DirectoryInfo nodeDirInfo = (DirectoryInfo)newSelected.Tag;

ListViewItem.ListViewSubItem[] subItems;

ListViewItem item = null;

foreach (FileInfo file in nodeDirInfo.GetFiles())

{

item = new ListViewItem(file.Name, 1);

subItems = new ListViewItem.ListViewSubItem[]

{new ListViewItem.ListViewSubItem(item, file.Length.ToString()),

new ListViewItem.ListViewSubItem(item, file.Extension),

new ListViewItem.ListViewSubItem(item, file.LastAccessTime.ToShortDateString())};

item.SubItems.AddRange(subItems);

listView1.Items.Add(item);

}

listView1.AutoResizeColumns(ColumnHeaderAutoResizeStyle.HeaderSize);

}

}