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Write the C# Code for Separate Form For WPF GridView Layout and Dockpanel and Stack and Wrap and Canvas

Creating a separate form for different layouts in WPF, such as GridView, DockPanel, StackPanel, WrapPanel, and Canvas, involves setting up each of these layout types in different views or windows. Below is an example demonstrating how to use each of these layouts with a simple form:

1. GridView Layout
2. DockPanel Layout
3. StackPanel Layout
4. WrapPanel Layout
5. Canvas Layout

1. GridView Layout in a Window

GridViewWindow.xaml:

```
<?xml version="1.0" encoding="utf-8" ?>
<x:Class xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
        xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
        Title="GridView Window" Height="300" Width="400">
    <Grid>
        <ListView Name="listview">
            <ListView.View>
                <GridView>
                    <GridViewColumn Header="Name" DisplayMemberBinding="{Binding Name}" Width="150"/>
                    <GridViewColumn Header="Age" DisplayMemberBinding="{Binding Age}" Width="50"/>
                    <GridViewColumn Header="Country" DisplayMemberBinding="{Binding Country}" Width="150"/>
                </GridView>
            </ListView.View>
        </ListView>
    </Grid>
</Window>
```

GridViewWindow.xaml.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Windows;
using System.Windows.Controls;

public partial class GridViewWindow : Window
{
    public GridViewWindow()
    {
        InitializeComponent();

        listview.ItemsSource = new List<Person>
        {
            new Person { Name = "John", Age = 30, Country = "USA" },
            new Person { Name = "Anna", Age = 25, Country = "Germany" },
            new Person { Name = "Mike", Age = 35, Country = "Canada" }
        };
    }
}

public class Person
{
    public string Name { get; set; }
    public int Age { get; set; }
    public string Country { get; set; }
}
```

2. DockPanel Layout

DockPanelWindow.xaml:

```
<?xml version="1.0" encoding="utf-8" ?>
<x:Class xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
        xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
        Title="DockPanel Window" Height="300" Width="400">
    <DockPanel>
        <Button Content="Top" DockPanel.Dock="Top" Height="50"/>
        <Button Content="Bottom" DockPanel.Dock="Bottom" Height="50"/>
        <Button Content="Left" DockPanel.Dock="Left" Width="100"/>
        <Button Content="Right" DockPanel.Dock="Right" Width="100"/>
        <Button Content="Center" />
    </DockPanel>
</Window>
```

3. StackPanel Layout

StackPanelWindow.xaml:

```
<?xml version="1.0" encoding="utf-8" ?>
<x:Class xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
        xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
        Title="StackPanel Window" Height="300" Width="400">
    <StackPanel>
        <Button Content="Button 1" Height="50" Width="100"/>
        <Button Content="Button 2" Height="50" Width="100"/>
        <Button Content="Button 3" Height="50" Width="100"/>
    </StackPanel>
</Window>
```

4. WrapPanel Layout

WrapPanelWindow.xaml:

```
<?xml version="1.0" encoding="utf-8" ?>
<x:Class xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
        xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
        Title="WrapPanel Window" Height="300" Width="400">
    <WrapPanel>
        <Button Content="Button 1" Width="100" Height="50"/>
        <Button Content="Button 2" Width="100" Height="50"/>
        <Button Content="Button 3" Width="100" Height="50"/>
        <Button Content="Button 4" Width="100" Height="50"/>
    </WrapPanel>
</Window>
```

5. Canvas Layout

CanvasWindow.xaml:

```
<?xml version="1.0" encoding="utf-8" ?>
<x:Class xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
        xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
        Title="Canvas Window" Height="300" Width="400">
    <Canvas>
        <Button Content="Button 1" Canvas.Left="50" Canvas.Top="50" Width="100" Height="50"/>
        <Button Content="Button 2" Canvas.Left="200" Canvas.Top="150" Width="100" Height="50"/>
        <Button Content="Button 3" Canvas.Left="150" Canvas.Top="100" Width="100" Height="50"/>
    </Canvas>
</Window>
```

Main Window to Navigate between Layouts

MainWindow.xaml:

```
<?xml version="1.0" encoding="utf-8" ?>
<Window x:Class="WpfApp.MainWindow"
        xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
        xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
        Title="Main Window" Height="300" Width="300">
    <StackPanel>
        <Button Content="GridView Layout" Click="GridView_Click" Margin="10"/>
        <Button Content="DockPanel Layout" Click="DockPanel_Click" Margin="10"/>
        <Button Content="StackPanel Layout" Click="StackPanel_Click" Margin="10"/>
        <Button Content="WrapPanel Layout" Click="WrapPanel_Click" Margin="10"/>
        <Button Content="Canvas Layout" Click="Canvas_Click" Margin="10"/>
    </StackPanel>
</Window>
```

MainWindow.xaml.cs:

```
using System;
using System.Windows;

public partial class MainWindow : Window
{
    public MainWindow()
    {
        InitializeComponent();
    }

    private void GridView_Click(object sender, RoutedEventArgs e)
    {
        GridViewWindow gridViewWindow = new GridViewWindow();
        gridViewWindow.Show();
    }

    private void DockPanel_Click(object sender, RoutedEventArgs e)
    {
        DockPanelWindow dockPanelWindow = new DockPanelWindow();
        dockPanelWindow.Show();
    }

    private void StackPanel_Click(object sender, RoutedEventArgs e)
    {
        StackPanelWindow stackPanelWindow = new StackPanelWindow();
        stackPanelWindow.Show();
    }

    private void WrapPanel_Click(object sender, RoutedEventArgs e)
    {
        WrapPanelWindow wrapPanelWindow = new WrapPanelWindow();
        wrapPanelWindow.Show();
    }

    private void Canvas_Click(object sender, RoutedEventArgs e)
    {
        CanvasWindow canvasWindow = new CanvasWindow();
        canvasWindow.Show();
    }
}
```

Notes:

- Each layout form (GridView, DockPanel, StackPanel, etc.) is implemented in separate windows.
- The `MainWindow` provides buttons to open these layout windows.
- Each layout demonstrates how to structure content using WPF's different panel types.

Let me know if you need any more help!

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