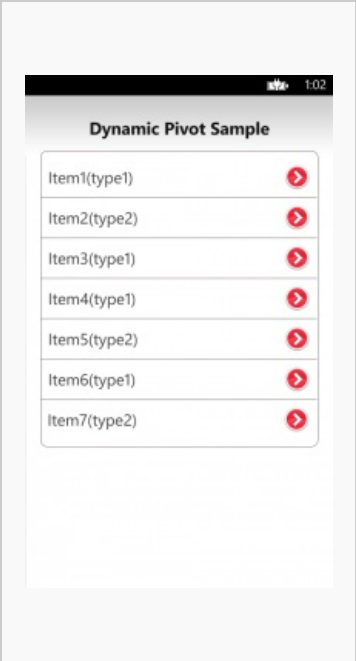
How to Add Pivot Item in a pivot dynamically in Windows Phone 8

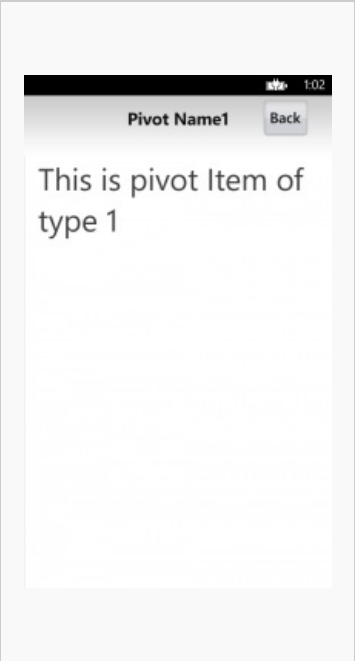
This article explains how to add Pivot Item in a pivot dynamically in Windows Phone.

Introduction

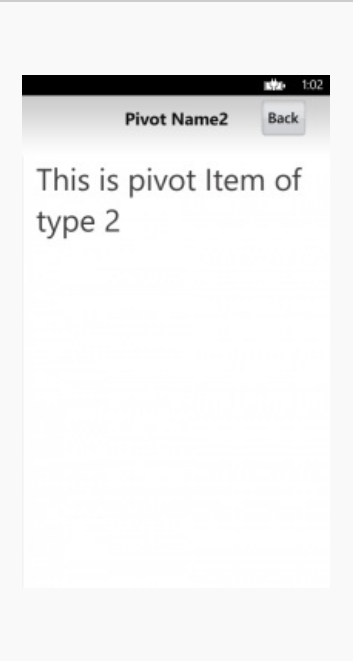
This code example demonstrates how to add pivot item dynamically. The special thing in this article is that I have added a user control as pivot item. All the event of user control(pivot Item) handled at page level.



Pivot FirstItem



Pivot another item - loaded at runtime



Pivot another item - loaded at runtime

Code Functionality:

The first Pivot item of Pivot is bind to a list collection of user control named (`MyPivotItem`). `Pivotname`, `PivotValue` and `PivotType` areproperties defined in usercontrol.

```
List<MyPivotItem> listPivotItems = null;

        private void BindPivotData()
        {
            listPivotItems = new List<MyPivotItem>() {
                  new MyPivotItem
{PivotName="Item1(type1)",PivotValue="None",Pivottype="PivotName1" },
                  new MyPivotItem
{PivotName="Item2(type2)",PivotValue="None",Pivottype="PivotName2" },
                  new MyPivotItem
{PivotName="Item3(type1)",PivotValue="None",Pivottype="PivotName1" },
                  new MyPivotItem
{PivotName="Item4(type1)",PivotValue="None",Pivottype="PivotName1" },
                  new MyPivotItem
{PivotName="Item5(type2)",PivotValue="None",Pivottype="PivotName2" },
                  new MyPivotItem
{PivotName="Item6(type1)",PivotValue="None",Pivottype="PivotName1" },
                  new MyPivotItem
{PivotName="Item7(type2)",PivotValue="None",Pivottype="PivotName2",IsLastItem=true }
```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```
            foreach (MyPivotItem item in listPivotItems)
            {
                item.SelectedItem += new
MyPivotItem.delgSelectedItem(item_SelectedItem);
                listBox1.Items.Add(item);
            }
        }
```

On the basis of `PivotType`, on List `itemselected` I bind another pivot item to Pivot control. Please see the pivot item itself is user control.

```
UCPivotItem1 _UCPivotItem1 = new UCPivotItem1();
UCPivotItem2 _UCPivotItem2 = new UCPivotItem2();
void item_SelectedItem(string alertName, string alertValue, string actionType)
        {
            PivotItem item = null;
            switch (actionType.ToLower())
            {

                case "pivotname1":
                    item = new PivotItem();

                    item.Content =  _UCPivotItem1;

                    myPivot.Items.Add(item);
                    myPivot.SelectedIndex = 1;
                    break;
                case "pivotname2":
                    item = new PivotItem();

                    item.Content = _UCPivotItem2;
                    myPivot.Items.Add(item);
                    myPivot.SelectedIndex = 1;
                    break;
            }
        }
```

Handled Tap event of back button in usercontrol at mainpage

```
_UCPivotItem1.btnCancel.Tap += btnCancel_Tap;
```

Complete Code :

MainPage.xaml (Layout)

```
<Grid x:Name="LayoutRoot"  >
        <Grid.Background>
            <ImageBrush ImageSource="/Images/bg-grey.png" Stretch="Fill" />
        </Grid.Background>
        <Grid.RowDefinitions>
            <RowDefinition Height="1*"/>
            <RowDefinition Height="99*"/>
        </Grid.RowDefinitions>
```


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```
        <Grid.ColumnDefinitions>
            <ColumnDefinition Width="2*"></ColumnDefinition>
            <ColumnDefinition Width="96*"></ColumnDefinition>
            <ColumnDefinition Width="2*"></ColumnDefinition>
        </Grid.ColumnDefinitions>
        <Grid Grid.Row="1"  Grid.Column="1" >


            <phone:Pivot Name="myPivot" SelectionChanged="myPivot_SelectionChanged">
                <phone:PivotItem >
                    <Grid >
                        <Grid.RowDefinitions>
                            <RowDefinition Height="8*"></RowDefinition>
                            <RowDefinition Height="1*"></RowDefinition>
                            <RowDefinition Height="91*"></RowDefinition>
                        </Grid.RowDefinitions>

                    <Grid Margin="0,-50,0,0">
                            <TextBlock TextWrapping="Wrap" VerticalAlignment="Center"
Grid.Column="1" Text="Dynamic Pivot Sample" HorizontalAlignment="Center"
FontSize="26.667" Foreground="#FF121111" FontWeight="Bold" />
                    </Grid>

                    <Grid Grid.Row="2" Margin="0,-25,0,0" >
                            <Grid.RowDefinitions>
                                <RowDefinition Height="90*"></RowDefinition>
                                <RowDefinition Height="10*"></RowDefinition>
                            </Grid.RowDefinitions>
                            <Border BorderBrush="#FF837A7A" BorderThickness="1"
HorizontalAlignment="Center" CornerRadius="10" Name="brdrList" VerticalAlignment="Top" >
                                <ListBox HorizontalAlignment="Left"  Name="listBox1"
Margin="0,10,0,10"    />
                            </Border>
                    </Grid>

                   </Grid>

                </phone:PivotItem>

            </phone:Pivot>
        </Grid>
    </Grid>
```

MainPage.cs (CodeBehind)

```
public partial class MainPage : PhoneApplicationPage
    {
        // Constructor
        List<MyPivotItem> listPivotItems = null;

        private void BindPivotData()
        {
            listPivotItems = new List<MyPivotItem>() {
                  new MyPivotItem
{PivotName="Item1(type1)",PivotValue="None",Pivottype="PivotName1" },
                  new MyPivotItem
```


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```
{PivotName="Item2(type2)",PivotValue="None",Pivottype="PivotName2" },
                  new MyPivotItem
{PivotName="Item3(type1)",PivotValue="None",Pivottype="PivotName1" },
                  new MyPivotItem
{PivotName="Item4(type1)",PivotValue="None",Pivottype="PivotName1" },
                  new MyPivotItem
{PivotName="Item5(type2)",PivotValue="None",Pivottype="PivotName2" },
                  new MyPivotItem
{PivotName="Item6(type1)",PivotValue="None",Pivottype="PivotName1" },
                  new MyPivotItem
{PivotName="Item7(type2)",PivotValue="None",Pivottype="PivotName2",IsLastItem=true }
                                                                          };
            foreach (MyPivotItem item in listPivotItems)
            {
                item.SelectedItem += new
MyPivotItem.delgSelectedItem(item_SelectedItem);
                listBox1.Items.Add(item);
            }
        }

        UCPivotItem1 _UCPivotItem1 = new UCPivotItem1();
        UCPivotItem2 _UCPivotItem2 = new UCPivotItem2();

        public MainPage()
        {
            InitializeComponent();

            _UCPivotItem1.btnCancel.Tap += btnCancel_Tap;
            _UCPivotItem2.btnCancel.Tap+=btnCancel_Tap;
            BindPivotData();

            // Sample code to localize the ApplicationBar
            //BuildLocalizedApplicationBar();
        }

        void btnCancel_Tap(object sender, System.Windows.Input.GestureEventArgs e)
        {
            RemoveLastPivotItem();
        }
        private void RemoveLastPivotItem()
        {
            PivotItem pItem = (PivotItem)myPivot.Items[1];
            pItem.Content = null;
            myPivot.Items.RemoveAt(1);
        }
        private void myPivot_SelectionChanged(object sender, SelectionChangedEventArgs
e)
        {
            if (myPivot.SelectedIndex == 0 && myPivot.Items.Count > 1)
            {
                RemoveLastPivotItem();
            }
        }

        void item_SelectedItem(string alertName, string alertValue, string actionType)
        {
            PivotItem item = null;
```


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```
            switch (actionType.ToLower())
            {

                case "pivotname1":
                    item = new PivotItem();

                    item.Content =  _UCPivotItem1;

                    myPivot.Items.Add(item);
                    myPivot.SelectedIndex = 1;
                    break;
                case "pivotname2":
                    item = new PivotItem();

                    item.Content = _UCPivotItem2;
                    myPivot.Items.Add(item);
                    myPivot.SelectedIndex = 1;
                    break;


            }
        }
        // Sample code for building a localized ApplicationBar
        //private void BuildLocalizedApplicationBar()
        //{
        //    // Set the page's ApplicationBar to a new instance of ApplicationBar.
        //    ApplicationBar = new ApplicationBar();

        //    // Create a new button and set the text value to the localized string from
AppResources.
        //    ApplicationBarIconButton appBarButton = new ApplicationBarIconButton(new
Uri("/Assets/AppBar/appbar.add.rest.png", UriKind.Relative));
        //    appBarButton.Text = AppResources.AppBarButtonText;
        //    ApplicationBar.Buttons.Add(appBarButton);

        //    // Create a new menu item with the localized string from AppResources.
        //    ApplicationBarMenuItem appBarMenuItem = new
ApplicationBarMenuItem(AppResources.AppBarMenuItemText);
        //    ApplicationBar.MenuItems.Add(appBarMenuItem);
        //}
    }
```

(Usercontrol)MyPivotItem.xaml(Layout)

```
<StackPanel Orientation="Vertical">
        <Grid x:Name="LayoutRoot" Background="White" Width="430" MinHeight="60"
Loaded="LayoutRoot_Loaded" Tap="LayoutRoot_Tap">
            <Grid.ColumnDefinitions>
                <ColumnDefinition Width="40*"></ColumnDefinition>
                <ColumnDefinition Width="48*"></ColumnDefinition>
                <ColumnDefinition Width="12*"></ColumnDefinition>
            </Grid.ColumnDefinitions>
            <TextBlock HorizontalAlignment="Left" FontSize="25"  Margin="10,0,0,0"
VerticalAlignment="Center" Grid.Column="0"  Name="txtName" Text="{Binding
PivotName,ElementName=cntrl}"  Foreground="#FF403E3E" />
            <TextBlock HorizontalAlignment="Right" TextTrimming="WordEllipsis"
```


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```
VerticalAlignment="Center" Margin="0,0,10,0" Grid.Column="1" Name="txtValue"
Text="{Binding AlertValue,ElementName=cntrl}"  Foreground="Gray" />
            <!--<TextBlock HorizontalAlignment="Right" FontWeight="Bold" FontSize="30"
VerticalAlignment="Center" Margin="0,0,10,0" Grid.Column="2"  Text=">"
Foreground="Gray" />-->
            <Image Grid.Column="2" Grid.Row="0"  Width="40" Margin="0,0,10,0"
VerticalAlignment="Center" Source="/Images/icons-arrow.png" HorizontalAlignment="Left"
/>


        </Grid>
        <StackPanel Height="2"></StackPanel>
        <Line X1="0" X2="430"  StrokeThickness="1" Stroke="#FF837A7A"
Name="line1"></Line>

    </StackPanel>
```

(Usercontrol) **MyPivotItem.xaml** (CodeBehind)

```
public partial class MyPivotItem : UserControl
    {
        public MyPivotItem()
        {
            InitializeComponent();
        }

        public delegate void delgSelectedItem(string PivotName, string PivotValue,
string PivotType);
        public event delgSelectedItem SelectedItem;
        private string name;

        public string PivotName
        {
            get { return name; }
            set { name = value; }
        }

        private string value;

        public string PivotValue
        {
            get { return this.value; }
            set { this.value = value; }
        }
        private string actiontype;

        public string Pivottype
        {
            get { return actiontype; }
            set { actiontype = value; }
        }
        private bool isLastItem=false;

        public bool IsLastItem
        {
            get { return isLastItem; }
```


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```
            set { isLastItem = value; }
        }


        private void LayoutRoot_Loaded(object sender, RoutedEventArgs e)
        {
            line1.Width = this.ActualWidth;
            if (isLastItem)
            {
                line1.Visibility = Visibility.Collapsed;
            }
        }

        private void LayoutRoot_Tap(object sender, GestureEventArgs e)
        {
            SelectedItem(PivotName, PivotValue, Pivottype);
        }
    }
```

(Usercontrol) **UCPivotItem1.xaml** (Layout)

```
<Grid Margin="0,-50,0,0">
        <Grid.RowDefinitions>
            <RowDefinition Height="10*"/>
            <RowDefinition Height="3*"/>
            <RowDefinition Height="87*"/>
        </Grid.RowDefinitions>
        <Grid>

            <TextBlock TextWrapping="Wrap"  VerticalAlignment="Center" Grid.Column="1"
Text="Pivot Name1" HorizontalAlignment="Center"  FontSize="26.667"
Foreground="#FF121111" FontWeight="Bold" />
            <Button Name="btnCancel" Height="80" Content="Back" Foreground="#FF0C0B0B"
Grid.Column="0" HorizontalAlignment="Right" BorderThickness="0"
VerticalAlignment="Center"  Margin="5" >
                <Button.Background>
                    <ImageBrush ImageSource="/Images/buttons-small.png"    />
                </Button.Background>
            </Button>


        </Grid>
        <StackPanel Grid.Row="2" x:Name="LayoutRoot" Orientation="Vertical"
Background="White">
            <TextBlock Name="txtAlertName"  TextWrapping="Wrap"  Text="This is pivot
Item of type 1" Foreground="#FF403E3E" FontSize="48">
            </TextBlock>
        </StackPanel>
    </Grid>
```

Summary

This code example shows how to add pivot item dynamically in your Windows Phone applications.

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You can download source code from here: File:DynamicPivotSample.zip

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