## Windows 10 UWP - Hands on Lab

## Lab 4:

**Note**: This demo app created for this lab uses the Visual Studio 2015 RTM and Windows Tools SDK ver 10240.

1. Open the \Views\MainPage.xaml file and add the following lines of xaml code to line 14.

```
<VisualStateManager.VisualStateGroups>
   <VisualStateGroup x:Name="WindowStates">
        <VisualState x:Name="NarrowState">
            <VisualState.StateTriggers>
                <AdaptiveTrigger MinWindowWidth="1"/>
            </VisualState.StateTriggers>
            <VisualState.Setters>
                <Setter Target="RecipesGridView.Visibility" Value="Collapsed" />
                <Setter Target="RecipesListView.Visibility" Value="Visible" />
            </VisualState.Setters>
        </VisualState>
        <VisualState x:Name="WideState">
            <VisualState.StateTriggers>
                <AdaptiveTrigger MinWindowWidth="1000"/>
            </VisualState.StateTriggers>
            <VisualState.Setters>
                <Setter Target="RecipesGridView.Visibility" Value="Visible" />
                <Setter Target="RecipesListView.Visibility" Value="Collapsed" />
            </VisualState.Setters>
        </VisualState>
        <VisualState x:Name="MediumState">
            <VisualState.StateTriggers>
                <AdaptiveTrigger MinWindowWidth="660"/>
            </VisualState.StateTriggers>
            <VisualState.Setters>
                <Setter Target="RecipesGridView.Visibility" Value="Collapsed" />
                <Setter Target="RecipesListView.Visibility" Value="Visible" />
            </VisualState.Setters>
        </VisualState>
   </VisualStateGroup>
  </VisualStateManager.VisualStateGroups>
```

```
III VioualStateManager,VioualStateGroups
Amain Julea - Crong Tentropy (Microsoft Xaml Interactivity "Using Microsoft Xaml Interactivity"
xmlns:core="using:Microsoft.Xaml.Interactions.Core"
xmlns:d="http://schemas.microsoft.com/expression/blend/2006"
xmlns.mc="http://schemas.openxmlformati.org/markup-computibility/2885"
mc:Ignorable="d")
(Grid
     VisualStateManager.VisualStateGroups
          <VisualState.StateTriggers</pre>
                         AdaptiveTrigger MinWindowWidth 11/
                    (VisualState,StateTriggers)
                    (VisualState.Setters)
                        Setter Target="RecipesGridView.Visibility" Value="Collapsed" />
Setter Target="RecipesListView.Visibility" Value="Visible" />
                    (/VisualState.Setters)
               (/VisualState
               VisualState x Name-"WideState"
                    (VisualState.StateTriggers)
(AdaptiveTrigger MinWindowWidth="1000"/)
                    VisualState.StateTriggers
                    (VisualState.Setters)
                         (Setter Target="RecipesEridView.Visibility" Value="Visible" /)
(Setter Target="RecipesListView.Visibility" Value="Collapsed" /)
                    VisualState.Setters
               (VisualState)
               <VisualState x:Name="MedlumState">
                     VisualState.StateTriggers
                         AdaptiveTrigger MinWindowWidth="668"/>
                    VisualState.StateTriggers
                    (VisualState.Setters)
```

2. In the \Views\MainPage.xaml file and add the following lines of xaml code to line 72.

```
<ListView x:Name="RecipesListView"</pre>
                   ItemsSource="{Binding Recipes}"
                   SelectionMode="Single"
                   IsItemClickEnabled="True"
                   Margin="40,20,30,0"
                   HorizontalAlignment="Left"
                   VerticalAlignment="Center"
                   Visibility="Collapsed">
            <interactivity:Interaction.Behaviors>
                 <core:EventTriggerBehavior EventName="ItemClick">
                     <core:CallMethodAction MethodName="BBQRecipeTapped"</pre>
                             TargetObject="{Binding Mode=OneWay}" />
                 </core:EventTriggerBehavior>
            </interactivity:Interaction.Behaviors>
            <ListView.ItemContainerStyle>
                 <Style TargetType="ListViewItem">
                     <Setter Property="Height" Value="Auto"/>
<Setter Property="Margin" Value="20"/>
                 </Style>
            </ListView.ItemContainerStyle>
            <ListView.ItemTemplate>
                 <DataTemplate>
                     <Grid>
                         <Image Source="{Binding ImageSource}"/>
                         <Border Background="#99000000" VerticalAlignment="Bottom">
                             <TextBlock Grid.Column="1" Text="{Binding Name}"
                                            FontSize="15" Margin="10"
                                            VerticalAlignment="Center"/>
                         </Border>
                     </Grid>
                 </DataTemplate>
            </ListView.ItemTemplate>
        </ListView>
```

```
- EDItorVew (Respectatives)
- Setter Property-"Height" Value-"GAO"/>
- Setter Property-"Hargin" Value-"5"/>
tyle:
(/Style)
                      GridView.ItemContainerStyle:
                      GridView.ItemTemplate:
                          DataTemplate:
                               Grid
                                    <Image Source="(Binding ImageSource)"/>
                                     Border
                               (/Grid)

CDataTemplate:
                     (/GridView.ItemTemplate)
                </GridView
              ListView x Name "RecipcilistView"

ItemsSource "(Binding Recipes)"

SelectionMode "Single"
                             IsItemClickEnabled True
                            Margin 40,20,30,0
HorizontalAlignment Left
                             VerticalAlignment Center
                             Visibility
                      Interactivity Interaction.Behaviors
                          core EventTriggerBehavior EventName "ItemElick"

core CallMethodAction MethodName "BodecipeTapped"

TargetObject "(Binding Mode-Chekkay)"

/core EventTriggerBehavior
                       interactivity Interaction Behaviors
                      Listview.ItemContainerStyle
                                le TargetType ListVismitum
Setter Property ">=isht Value Zuto";
```

3. Open the \Views\BBQRecipePage.xaml file and add the following lines of xaml code to line 11

```
<VisualStateManager.VisualStateGroups>
            <VisualStateGroup x:Name="WindowStates">
                <VisualState x:Name="NarrowState">
                     <VisualState.StateTriggers>
                         <AdaptiveTrigger MinWindowWidth="1"/>
                    </VisualState.StateTriggers>
                    <VisualState.Setters>
                         <Setter Target="BBQImage.Height" Value="300" />
                         <Setter Target="BBQImage.Width" Value="300" />
                         <Setter Target="PageTitle.Style" Value="{StaticResource</pre>
                                SubtitleTextBlockStyle}" />
                         <Setter Target="DetailstackPanel.(RelativePanel.Below)"</pre>
                                Value="ImageStackPanel" />
                         <Setter Target="DetailstackPanel.Margin" Value="0,0,0,0"/>
                    </VisualState.Setters>
                </VisualState>
                <VisualState x:Name="WideState">
                     <VisualState.StateTriggers>
                         <AdaptiveTrigger MinWindowWidth="1000"/>
                     </VisualState.StateTriggers>
                     <VisualState.Setters>
                         <Setter Target="BBQImage.Height" Value="600" />
                         <Setter Target="BBQImage.Width" Value="600" />
                         <Setter Target="PageTitle.Style" Value="{StaticResource</pre>
                                HeaderTextBlockStyle}" />
                         <Setter Target="DetailstackPanel.(RelativePanel.RightOf)"</pre>
                                Value="ImageStackPanel"/>
                         <Setter
   Target="DetailstackPanel.(RelativePanel.AlignBottomWith)" Value="ImageStackPanel"
/>
                         <Setter Target="DetailstackPanel.Margin" Value="50,0,0,0"/>
                     </VisualState.Setters>
                </VisualState>
                <VisualState x:Name="MediumState">
                     <VisualState.StateTriggers>
                         <AdaptiveTrigger MinWindowWidth="660"/>
                     </VisualState.StateTriggers>
                    <VisualState.Setters>
                         <Setter Target="BBQImage.Height" Value="300" />
                         <Setter Target="BBQImage.Width" Value="300" />
                        <Setter Target="PageTitle.Style" Value="{StaticResource</pre>
SubtitleTextBlockStyle}" />
                        <Setter Target="DetailstackPanel.(RelativePanel.Below)"</pre>
Value="ImageStackPanel" />
                        <Setter Target="DetailstackPanel.Margin" Value="0,0,0,0"/>
                     </VisualState.Setters>
                </VisualState>
            </VisualStateGroup>
        </VisualStateManager.VisualStateGroups>
        <Grid.RowDefinitions>
            <RowDefinition Height="140"/>
            <RowDefinition Height="*"/>
        </Grid.RowDefinitions>
```

```
mc Ignorable d
                       VisualStateGroup x:Name="WindowStates")
    VisualState x:Name="NarrowState"
                                                      VisualState.StateTriggers
                                                              AdaptiveTrigger MinWindowwidth="1"/>

<pre
                                                       VisualState.Setters>
                                                              Setter Target="BOQImage_Height" Value="300" />
Setter Target="BOQImage_Width" Value="300" />
Setter Target="PageTitle_Style" Value="(StaticResource SubtitleTextBlockStyle)" />
                                                              Setter Target="DetailstackPanel.(RelativePanel.Below)" Value="ImageStackPanel" />
Setter Target="DetailstackPanel.Margin" Value="0,0,0,0"/*
                                                       (VisualState, Setters)
                                              c/visualState>
                                               VisualState x:Name="HideState">
                                                      (VisualState.StateTriggers)
                                                               AdaptiveTrigger MinWindowWidth="1000"/>
                                                       VisualState.StateTriggers
                                                       (VisualState.Setters)
                                                              Setter Target-"BBQImage.Meight" Value-"EBB" /)
Setter Target-"BBQImage.Midth" Value-"EBB" /)
Setter Target-"PageTitle.Style" Value-"(StaticResource MeaderTextBlockStyle)" /)
Setter Target-"DetailstackPanel.(RelativePanel.RightOf)" Value-"ImageStackPanel" />
Setter Target-"DetailstackPanel.(RelativePanel.AlignBOttomWith)" Value-"ImageStackPanel" />
```

4. In the \Views\BBQRecipePage.xaml file and add the following lines of xaml code to line 59

```
+ III Gut (BBQSecipeGridVess)
              (VisualState)
    </VisualStateGroup
</VisualStateManager.VisualStateGroups>
Grid.RowDefinitions
   RowDefinition Height- 140"/>
    RowDefinition Height-
Grid.RowDefinitions
Grid Grid.Row 1 x:Name BBCRecipeGridView Grid.RowSpan 2" Margin 46.0,50,0 >
    ScrollViewer
        RelativePanel
            StackPanel x Name-"InageStackFanel" "Grientation-"Vertical" HorizontalAlignment-"Left" 

«Inage x:Name-"BBQImage" Source-"(Binding ImageSource, Mode-TwoWay)" Canvas.ZIndex-"-3" Height-"593"
            (StackPanel)
            StackPanel Grid.Column="1" Orientation Vertical >
                "TextBox x:Name-"TextBoxTitle" Text-"(Binding Name, Mode-TwoWay)"/>
                StackPanel Hargin- 58,0,50,25
                    TextBlock Text="Prep Time" FontSize="14"/>
(TextBox Text="(Hinding PrepTime, Mode=TwoNay)"/>

StackPanel
                <StackPanel Margin="50,0,50,25">
    (TextBlock Text="Total Time" FontSize="14"/>
                     <TextBox Text="(Binding TotalTime, Mode=TwoWay)"/>
                </stackPanel
                 StackPanel Hargin 58,0,58,25
                     "TextBlock Text="Serves" FontSize="14"/>
                     -TextBox Text="(Binding Serves, Mode-TwoNay)"/>
                 </pre
                StackPanel Margin- 50,0,58,25
```

5. In the \Views\BBQRecipePage.xaml file and add the following lines of xaml code to line 112

</RelativePanel>
</ScrollViewer>

```
GradientStop Color-"#FFC000#" Offset-"0.121"/>
GradientStop Color-"#FFC000#" Offset-"0.549"/>
GradientStop Color-"#FFC000#" Offset-"0.549"/>
GradientStop Color-"#FFC000#" Offset-"0.549"/>
(FradientStop Color-"#FFC000#" Offset-"0.549"/
(FradientStop Color-"#FFC000#" Offset-"0.549"/
(FradientStop Color-"#FFC000#" Offset-"0.549"/
(FradientStop Color-"#FFC000#" Offset-"0.549"/
(FradientStop Color-"#FFC000#" Offset-
```

6. In the \Views\BBQRecipePage.xaml file and update the following lines of xaml code to line 155. Remove the "Grid.ColumnSpan="2"" attribute.

<StackPanel Margin="46,20,0,0">

```
Button Margin="18" x:Name="ButtonDelete" Content="Delete" FontSize="32" Command="(Binding Delete
«Button.Background»
                                                                           LinearGradientBrush EndPoint="0.5,1" StartPoint="0.5,0">
                                                                                  GradientStop Color-"#FFCDIDIB" Offset-"0.171"/>
GradientStop Color-"#FFGAGAGA"/
GradientStop Color-"#FFGAGAGA" Offset-"0.96"/>
GradientStop Color-"#FFCDIDIB" Offset-"0.949"/>

<
                                                                    «/Button.Background»
                                                             «/Button:
                                                      </stackPanel
                                               </stackPanel
                                        (RelativePanel)
                                (Grid
                         | StackPanel Margin="A4.20,0,0,0"|
| StackPanel Margin="A4.20,0,0,0"|
| CextBlock x:Name="PageTitle" Text="{Binding Name, Mode=TwoWay}" Style="{StaticResource MeaderTextBlockStyle}"
| IsMitTestVisible="false" TextWrapping="NoWrap" VerticalAlignment="Bottom"/>
118
                          /StackPanel
                  (/Grid)
         (/Page)
```

7. In the \Views\BBQRecipePage.xaml file and update the following lines of xaml code to line starting on 64. This step is updating the contents of the StackPanel.

```
<StackPanel x:Name="DetailstackPanel" Orientation="Vertical" HorizontalAlignment="Left">
                        <StackPanel Margin="0,20,20,10">
                            <TextBlock Text="Name" FontSize="14"/>
                            <TextBox x:Name="TextBoxTitle" Text="{Binding Name,
                                   Mode=TwoWay}"/>
                        </StackPanel>
                        <StackPanel Margin="0,0,20,10">
                            <TextBlock Text="Prep Time" FontSize="14"/>
                            <TextBox Text="{Binding PrepTime, Mode=TwoWay}"/>
                        </StackPanel>
                        <StackPanel Margin="0,0,20,10">
                            <TextBlock Text="Total Time" FontSize="14"/>
                            <TextBox Text="{Binding TotalTime, Mode=TwoWay}"/>
                        </StackPanel>
                        <StackPanel Margin="0,0,20,10">
                            <TextBlock Text="Serves" FontSize="14"/>
                            <TextBox Text="{Binding Serves, Mode=TwoWay}"/>
                        </StackPanel>
                        <StackPanel Margin="0,0,20,10">
                            <TextBlock Text="Ingredients" FontSize="14"/>
                            <TextBox Text="{Binding Ingredients, Mode=TwoWay}"/>
                        </StackPanel>
                        <StackPanel Margin="0,0,20,10">
                            <TextBlock Text="Directions" FontSize="14"/>
                            <TextBox Text="{Binding Directions, Mode=TwoWay}"
                                   Height="150" TextWrapping="Wrap"/>
                        </StackPanel>
                        <StackPanel Margin="0,0,20,10" Orientation="Horizontal"</pre>
                            Padding="10" HorizontalAlignment="Center">
                            <Button Margin="10" x:Name="ButtonSave" Content="Save"</pre>
                                   FontSize="32" Command="{Binding SaveCommand}">
                                 <Button.Background>
                                     <LinearGradientBrush EndPoint="0.5,1"</pre>
                                          StartPoint="0.5,0">
                                         <GradientStop Color="#FF6ACD18" Offset="0.171"/>
                                         <GradientStop Color="#FF0A0A0A"/>
                                         <GradientStop Color="#FF0A0A0A" Offset="0.98"/>
                                         <GradientStop Color="#FF6ACD18" Offset="0.949"/>
                                     </LinearGradientBrush>
                                 </Button.Background>
                            </Button>
                            <Button Margin="10" x:Name="ButtonDelete" Content="Delete"</pre>
                            FontSize="32" Command="{Binding DeleteCommand}">
                                 <Button.Background>
                                     <LinearGradientBrush EndPoint="0.5,1"</pre>
                                          StartPoint="0.5,0">
                                         <GradientStop Color="#FFCD1D18" Offset="0.171"/>
                                         <GradientStop Color="#FF0A0A0A"/>
                                         <GradientStop Color="#FF0A0A0A" Offset="0.98"/>
                                         <GradientStop Color="#FFCD1D18" Offset="0.949"/>
                                     </LinearGradientBrush>
                                 </Button.Background>
                            </Button>
```

```
cScrollViewer
    RelativePanel:
         DetailstackFamel Orientation Vertical HorizontalAlignment Left
              StackPanel Hangin *, 10, 20, 10

TextBlock Text "Hane" FontSize 14

TextBox x Name "TextBox itle" Text "(Binding Name, Mode TwoHay)"/
               StackPanel Margin 0,0,20,10
StackPanel Margin 0,0,20,10
TextBlock Text "Prop Time" FontSize 147/5
TextBox Text "Eirding PropTime, Mode Tanklay)"/5
                StackPanel |
               StackPanel Margin="0,0,20,10":
TextBlock Text="Total Time" FontSize="14"/>
               /StackPanel
StackPanel Margin "0,0,20,10"
TextBlock Text "Serves" FontSize "14"/
                    TextBox Text-"(Binding Serves, Mode-Takkay)"/>
               StackPanel
               StackPanel Margin "0,0,20,10")

TextBlock Text="Impredients" FontSize="14")
                    TextBox Text="(Dinding Ingredients, Rode-Twoway)"/>
               StackPanel
               StackPanel Margin 0,0,00,10
TextBlock Text "Directions"
                                                       FontSize-14"/
                    TextBox Text-"[Binding Directions, Mode-Tuokky]" Height-"150" TextWrapping-"Wrup"/
               StackPanel Margin "0,0,29,10" Orientation="Horizontal" Padding "10" HorizontalAlignment "Center" |
Button Margin "10" x Name "ButtonSave" Content "Save" FontSize "52" Command (Binding SaveComm
                        Button Background
```