## Windows 10 UWP - Hands on Lab

## Lab 6:

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

1. Open the \View\BBQRecipePage.xaml.cs file and make sure the following using statements match the ones below. Add the missing using statements.

```
using HowToBBQ.Win10.ViewModels;
using System;
using System.Collections.Generic;
using Windows.Foundation;
using Windows.Media.Capture;
using Windows.Storage;
using Windows.Storage.FileProperties;
using Windows.Storage.Pickers;
using Windows.Storage.Streams;
using Windows.UI.Xaml;
using Windows.UI.Xaml.Controls;
using Windows.UI.Xaml.Media.Imaging;
```

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```

2. In the \View\BBQRecipePage.xaml.cs file and add the following lines of code on line 24.

private WriteableBitmap bitmap;

```
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MowlossQ Win10
                                               ₱ HowToBBQ.Win10.Views.BBQRecipePage
              using Windows.Storage.FileProperties;
              using Windows.Storage.Pickers;
              using Windows.Storage.Streams;
              using Windows.UI.Xaml;
              using Windows.UI.Xaml.Controls;
             Using Windows.UI.Xaml.Media.Imaging;
             // The Blank Page item template is documented at http://go.microsoft.com/fwlink/?kinkId=234238
            ≡namespace HowToBBQ.Win10.Views
                   # Inference | Tom William, 49 minutes ago | 1 muthor, 2 changes
public sealed partial class BBQRecipePage : Page
                      private WriteableBitmap bitmap;
                        O references | Tom Walker, 1 hour ago | 1 author, 1 thange public BBQRecipePage()
                             this.InitializeComponent();
                             DataContext = new BBQRecipeViewModel();
                        Invierence | Tom Walker, 49 menuter age | 1 author, 1 change private async void ButtonFilePick_Click(object sender, RoutedEventArgs e)
                             var picker = new FileOpenPicker();
                             picker.ViewMode = PickerViewMode.Thumbnail;
```

3. In the \View\BBQRecipePage.xaml.cs file and add the following lines of code on line 35.

```
private async void ButtonFilePick_Click(object sender, RoutedEventArgs e)
{
     var picker = new FileOpenPicker();
     picker.ViewMode = PickerViewMode.Thumbnail;
     picker.SuggestedStartLocation = PickerLocationId.PicturesLibrary;
     picker.FileTypeFilter.Add(".jpg");
picker.FileTypeFilter.Add(".jpeg");
picker.FileTypeFilter.Add(".png");
     StorageFile file = await picker.PickSingleFileAsync();
     if (file != null)
          ImageProperties imgProp = await
         file.Properties.GetImagePropertiesAsync();
          var savedPictureStream = await file.OpenAsync(FileAccessMode.Read);
          //set image properties and show the taken photo
          bitmap = new WriteableBitmap((int)imgProp.Width, (int)imgProp.Height);
          await bitmap.SetSourceAsync(savedPictureStream);
          BBQImage.Source = bitmap;
          BBQImage.Visibility = Visibility.Visible;
          (this.DataContext as BBQRecipeViewModel).imageSource = file.Path;
     }
 }
```

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                              this.InitializeComponent();
                              DataContext = new BBQRecipeViewModel();
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private async void ButtonFilePick_Click(object sender, RoutedEventArgs e)
                               var picker = new FileOpenPicker();
                              picker.ViewMode = PickerViewMode.Thumbnail;
                              picker.SuggestedStartLocation = PickerLocationId.PicturesLibrary;
                              picker.FileTypeFilter.Add(".jpg");
picker.FileTypeFilter.Add(".jpeg");
picker.FileTypeFilter.Add(".png");
                              StorageFile file = await picker.PickSingleFileAsync();
                              if (file != null)
                                   ImageProperties imgProp = await file.Properties.GetImagePropertiesAsync();
var savedPictureStream = await file.OpenAsync(FileAccessMode.Read);
                                   bitmap = new Writeable&itmap((int)imgProp.Width, (int)imgProp.Height);
                                   awmit bitmap.SetSourceAsync(savedPictureStream);
                                   B8QImage.Source - bitmap;
                                   BBQImage Visibility = Visibility Visible;
                                   (this.DataContext as BBQRecipeViewModel).imageSource = file.Path;
```

4. In the \View\BBQRecipePage.xaml.cs file and add the following lines of code on line 37.

```
private async void ButtonCamera_Click(object sender, RoutedEventArgs e)
 {
     CameraCaptureUI captureUI = new CameraCaptureUI();
     captureUI.PhotoSettings.Format = CameraCaptureUIPhotoFormat.Jpeg;
     captureUI.PhotoSettings.CroppedSizeInPixels = new Size(600, 600);
     StorageFile photo = await
      captureUI.CaptureFileAsync(CameraCaptureUIMode.Photo);
     if (photo != null)
     {
         BitmapImage bmp = new BitmapImage();
         IRandomAccessStream stream = await photo.
                                            OpenAsync(FileAccessMode.Read);
         bmp.SetSource(stream);
         BBQImage.Source = bmp;
         FileSavePicker savePicker = new FileSavePicker();
         savePicker.FileTypeChoices.Add
                               ("jpeg image", new List<string>() { ".jpeg" });
         savePicker.SuggestedFileName = "New picture";
         StorageFile savedFile = await savePicker.PickSaveFileAsync();
         (this.DataContext as BBQRecipeViewModel).imageSource = savedFile.Path;
         if (savedFile != null)
             await photo.MoveAndReplaceAsync(savedFile);
         }
     }
        }
```

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    ButtonCamera_Click(object sender, RoutedEventArgs e)

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private asymc void ButtonCamera_Click(object sender, RoutedEventArgs e)
                       ı
                            CameraCaptureUI captureUI = new CameraCaptureUI();
captureUI PhotoSettings Format = CameraCaptureUIPhotoFormat.Jpeg;
captureUI PhotoSettings CroppedSizeInPixels = new Size(600, 600);
                            StorageFile photo = await captureUI.CaptureFileAsync(CameraCaptureUIHode.Photo);
                            if (photo i= ==11)
                                BitmapImage bmp - hmw SitmapImage();
                                IRandomAccessStream stream = **** photo.
                                                                          OpenAsync(FileAccessMode.Read);
                                BBQImage.Source = bmp;
                                FileSavePicker savePicker = new FileSavePicker();
                                savePicker.FileTypeChoices.Add
                                                           ("jpog image", naw Listersrange() { " jpog" });
                                savePicker.SuggestedFileName = "New picture";
                                StorageFile savedFile = wwwit savePicker.PickSaveFileAsync();
                                (Init DataContext as BECGecipeViewHodel) imageSource - savedFile Path;
                                 (aavedFile (= =ull)
                                     mwsit photo.MoveAndReplaceAsync(savedFile);
```

5. Open the \View\BBQRecipePage.xaml file and add the following lines of xaml code on line 63.

```
<StackPanel Margin="0,20,0,0" Orientation="Horizontal"</pre>
    HorizontalAlignment="Center">
    <Button Margin="10" x:Name="ButtonFilePick" Content="Select Image"</pre>
    FontSize="32" Click="ButtonFilePick Click">
                <Button.Background>
                    <LinearGradientBrush EndPoint="0.5,1"</pre>
                          StartPoint="0.5,0">
                         <GradientStop Color="#FFDC9743" Offset="0.171"/>
                         <GradientStop Color="#FF0A0A0A"/>
                         <GradientStop Color="#FF0A0A0A" Offset="0.98"/>
                         <GradientStop Color="#FFDC9743" Offset="0.949"/>
                     </LinearGradientBrush>
                </Button.Background>
            </Button>
            <Button Margin="10" x:Name="ButtonCamera" Content="Camera"</pre>
                   FontSize="32" Click="ButtonCamera Click">
                <Button.Background>
                    <LinearGradientBrush EndPoint="0.5,1"</pre>
                          StartPoint="0.5,0">
                         <GradientStop Color="#FF4293CE" Offset="0.171"/>
                         <GradientStop Color="#FF0A0A0A"/>
                         <GradientStop Color="#FF0A0A0A" Offset="0.98"/>
                         <GradientStop Color="#FF4293CE" Offset="0.949"/>
                    </LinearGradientBrush>
                </Button.Background>
            </Button>
        </StackPanel>
```

```
□ StackPanel
                                                                                     + IIII StackPanel
                           <RowDefinition Height="""/>
                     Grid.RowDefinitions
    (Grid Grid.Row-"1" x:Name "BBQRecipeGridView" Grid.RowSpan "2" Margin "46,0,50,0")
                           ScrollViewer
                                RelativePanel
                                     LinearGradientBrush EndPoint="0.5,1" StartPoint="0.5,0"
                                                               GradientStop Color "#FFBABABA"

Offset "8.95"
                                                            |LinearGradientBrush|
                                                       Button Background
                                                 Button
                                                Button Margin "10" x Name "EuttonCamera" Content "Camera" FontSize-"32" Click "ButtonCamera"
                                                     Button Background
                                                          LinearGradientSrush EndPoint="0.5,1" StartPoint="0.5,0" GradientStop Color= #FFA293CT" Offset= 0.171" GradientStop Color= #FFA293CT" Offset= 0.171" GradientStop Color= #FFA293CT" Offset= 0.340"
                                                            LinearGradientBrush
                                                      Button.Background
                                                  Button
                                            StackPanel

<
                                      StackPanel x:Name="DetailstuckPanel" Orientation="Vertical" HorizontalAlignment="Left">
                                           StackPanel Hargin-"8,28,28.18"
                                                <TextBlock Text="Name" FontSize="14"/>
                                                (TextBox x:Name="TextBoxTitle" Text="(Binding Name, Mode=TwoWay)"/>
                                           (StackPanel)
                                           (StackPanel Margin "8,8,28,18")
(TextBlock Text "Prep Time" FontSize "14"/>
                                                <TextBox Text="(Binding PrepTime, Mode=TwoWay)"/>
                                           (StackPanel)
```

6. Double click on the file "Package.appxmanifest" to open the App Manifest widow. Make sure to enable "Video Library", "Picture Library".

