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;
```

```
### HowToRRO_Win10 ViewYodels;

| Spains | HowToRRO_Win10 ViewYodels;
| System; | Syst
```

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

```
public MediaCapture captureManager;
public bool isPreviewing = false;
public bool isAutoFocus = false;
private WriteableBitmap bitmap;
```

```
OGRecipePage.xamLcs* = X
PHOWTOSBQ:Win10
                                                       HowToBBQ Win10 Wews BBQRedpePage
            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/?LinkId=234238
             Enamespace HowToBBQ.Win10.Views
                     Inference | Turn Walker 16 minutes agril 1 suction 1 change public sealed partial class 88QRecipePage : Page
                          public MediaCapture captureManager;
                          public bool isPreviewing = false;
public bool isAutoFocus = false;
private WriteableBitmap bitmap;
                          Oreferecess | Turn Walter, 15 minutes ago | 1 author, 1 charge public BBQRecipePage()
                                this InitializeComponent();
                               DataContext = new BBQRecipeViewModel();
```

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

```
private async void Loadphoto(string filename)
    //load saved image
   StorageFolder pictureLibrary = KnownFolders.SavedPictures;
    StorageFile savedPicture = await pictureLibrary.GetFileAsync(filename);
    ImageProperties imgProp = await
   savedPicture.Properties.GetImagePropertiesAsync();
    var savedPictureStream = await savedPicture.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;
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)
        // Application now has read/write access to the picked file
        Loadphoto(file.Path);
```

```
HowToBBQ.Wis10

    * HowToBBQ:Win10:Views.BBQRscipePage

    <sup>(i)</sup> ButtonfilePick_Click(object sender, RoutedEventArgs e)

                     public BBQRecipePage()
                          this.InitializeComponent();
                          DataContext = new BBQRecipeViewModel();
                     1 reference | Distances | Disastors, Dictances private async void Loadphoto(string filename)
                          //load saved image
                          StorageFolder pictureLibrary - KnownFolders.SavedPictures;
                         StorageFile savedPicture = await pictureLibrary.GetFileAsync(filename);
                          ImageProperties imgProp = await savedPicture.Properties.GetImagePropertiesAsync();
                          van savedPictureStream = await savedPicture.OpenAsync(FileAccessMode.Read);
                         bitmap = new WriteableBitmap((int)imgProp.Width, (int)imgProp.Height);
                          await bitmap.SetSourceAsync(savedPictureStream);
                          BBQImage.Source = bitmap;
                          BBQImage. Visibility - Visibility. Visible;
                     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");
ror List - Output
```

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

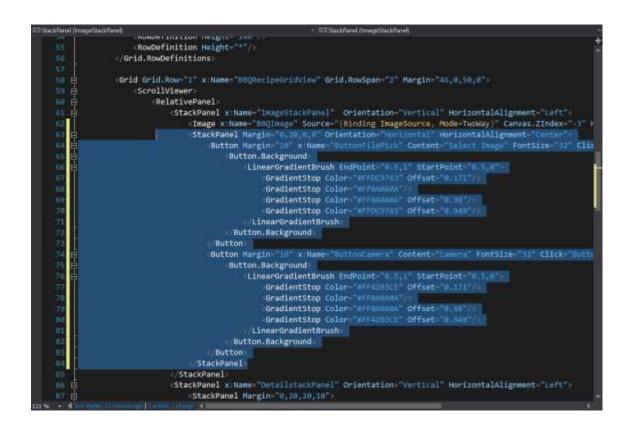
```
private async void ButtonCamera_Click(object sender, RoutedEventArgs e)
            CameraCaptureUI captureUI = new CameraCaptureUI();
            captureUI.PhotoSettings.Format = CameraCaptureUIPhotoFormat.Jpeg;
            captureUI.PhotoSettings.CroppedSizeInPixels = new Size(600, 600);
            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();
                if (savedFile != null)
                {
                    await photo.MoveAndReplaceAsync(savedFile);
                }
            }
        }
```

```
Loadphoto(tile.Path);
}

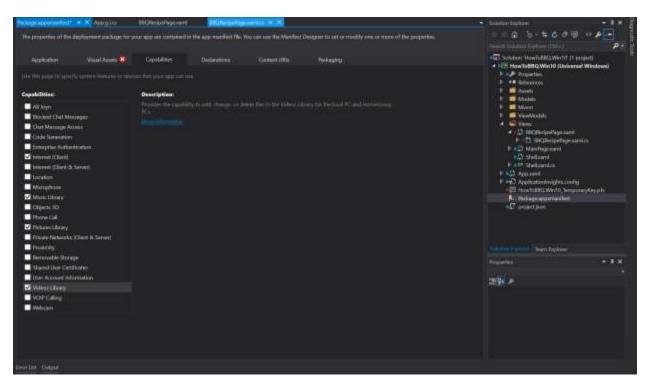
| District | Distri
```

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>
```



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



7.