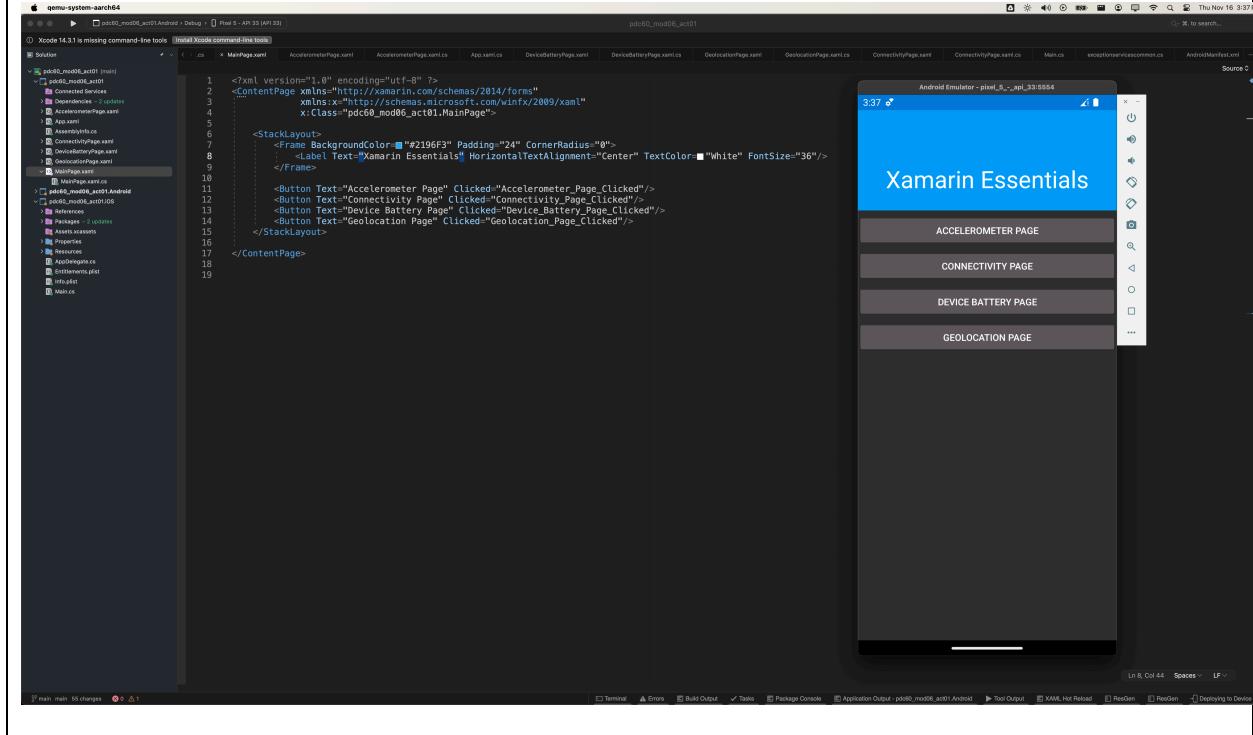


**PDC60 – Xamarin
ACTIVITY SHEET**

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Year and Section:	BSIT-4A	Date Submitted:	November 16, 2023

https://github.com/ehtluhg/pdc60_mod06_act01.git

OUTPUT SCREENSHOT:



Screenshot 1: Accelerometer Page

```

1  using System;
2  using System.Collections.Generic;
3  using Xamarin.Forms;
4  using Xamarin.Essentials;
5  using Xamarin.Forms.Xaml;
6  using Xamarin.Essentials;
7  using Accelerometer = Xamarin.Essentials.Accelerometer;
8
9  namespace pdc6_mod06_act01
10 {
11     public partial class AccelerometerPage : ContentPage
12     {
13         public AccelerometerPage ()
14         {
15             InitializeComponent ();
16         }
17
18         private void Accelerometer_ReadingChanged(object sender, AccelerometerChangedEventArgs e)
19         {
20             LabelX.Text = e.Reading.Acceleration.X.ToString();
21             LabelY.Text = e.Reading.Acceleration.Y.ToString();
22             LabelZ.Text = e.Reading.Acceleration.Z.ToString();
23         }
24
25         private void ButtonStart_Clicked(object sender, EventArgs e)
26         {
27             if (Accelerometer.IsMonitoring)
28                 return;
29
30             Accelerometer.ReadingChanged += Accelerometer_ReadingChanged;
31             Accelerometer.Start(SensorSpeed.Game);
32         }
33
34
35         private void ButtonStop_Clicked(object sender, EventArgs e)
36         {
37             if (!Accelerometer.IsMonitoring)
38                 return;
39
40             Accelerometer.ReadingChanged -= Accelerometer_ReadingChanged;
41             Accelerometer.Stop();
42         }
43
44     }
45 }
46
47
48
49

```

Screenshot 2: Connectivity Page

```

1  using System;
2  using System.Collections.Generic;
3  using Xamarin.Forms;
4  using Xamarin.Essentials;
5  using Xamarin.Forms.Xaml;
6  using Connectivity = Xamarin.Essentials.Connectivity;
7
8  namespace pdc6_mod06_act01
9  {
10     public partial class ConnectivityPage : ContentPage
11     {
12         public ConnectivityPage ()
13         {
14             InitializeComponent ();
15         }
16
17         private void Connectivity_Clicked(object sender, EventArgs e)
18         {
19             if (Connectivity.NetworkAccess != NetworkAccess.Internet)
20             {
21                 DisplayAlert("No Internet", "Please connect to the internet", "Ok");
22                 return;
23             }
24         }
25
26     }
27
28
29

```

Two screenshots of a Xamarin Forms application running on an Android emulator.

Screenshot 1: Connectivity Page

The code for the `ConnectivityPage.xaml.cs` file:

```

1  using System;
2  using System.Collections.Generic;
3  using Xamarin.Forms;
4  using Xamarin.Forms.Xaml;
5  using Xamarin.Essentials;
6  using Xamarin.Essentials.Battery;
7  using Connectivity = Xamarin.Essentials.Connectivity;
8
9  namespace pdc60_mod06_act01
10 {
11     public partial class ConnectivityPage : ContentPage
12     {
13         public ConnectivityPage ()
14         {
15             InitializeComponent ();
16         }
17
18         private void Connectivity_Clicked(object sender, EventArgs e)
19         {
20             if (Connectivity.NetworkAccess != NetworkAccess.Internet)
21             {
22                 DisplayAlert("No Internet", "Please connect to the internet", "Ok");
23                 return;
24             }
25         }
26
27     }
28
29
30
31
32
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40
41
42
43
44
45
46
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52
53
54
55
56
57
58
59
60
}

```

The Android emulator shows a modal dialog titled "No Internet" with the message "Please connect to the internet" and an "OK" button. Below the dialog is a "CHECK CONNECTIONS" button.

Screenshot 2: Device Battery Page

The code for the `DeviceBatteryPage.xaml.cs` file:

```

1  using System;
2  using System.Collections.Generic;
3  using Xamarin.Forms;
4  using Xamarin.Forms.Xaml;
5  using Xamarin.Essentials;
6  using Xamarin.Essentials.Battery;
7
8  namespace pdc60_mod06_act01
9  {
10     public partial class DeviceBatteryPage : ContentPage
11     {
12         public DeviceBatteryPage()
13         {
14             InitializeComponent();
15
16             SetBackground(Battery.ChargeLevel, Battery.State == BatteryState.Charging);
17
18         }
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
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49
50
51
52
53
54
55
56
57
58
59
60
}

```

The Android emulator shows a green screen with the text "Xamarin Essentials #3: Device Battery Page" at the top and "Battery Status" in the center. At the bottom, it says "Not charging".

qemu-system-armhf

Xcode 14.3.1 is missing command-line tools

No selection

```
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Text;
5  using System.Threading.Tasks;
6  using Xamarin.Forms;
7  using Xamarin.Forms.Xaml;
8  using Xamarin.Essentials;
9
10 namespace pdc0_mod0_ac01
11 {
12     public partial class GeolocationPage : ContentPage
13     {
14         private bool isGettingLocation;
15         public GeolocationPage ()
16         {
17             InitializeComponent ();
18         }
19
20         async void Start_Locate(System.Object sender, System.EventArgs e)
21         {
22             isGettingLocation = true;
23             while (isGettingLocation)
24             {
25                 var result = await Geolocation.GetLocationAsync(new GeolocationRequest(GeolocationAccuracy.Default, TimeSpan.FromSeconds(1)));
26                 resultLocation.Text += $"lat: {result.Latitude}, lng: {result.Longitude}{Environment.NewLine}";
27                 await Task.Delay(1000);
28             }
29         }
30
31         private void Stop_Locate(System.Object sender, System.EventArgs e)
32         {
33             isGettingLocation = false;
34         }
35     }
36 }
37
38
39
```

3:47

←

Xamarin Essentials #4: Geolocation Page

GEOLOCATE

STOP GEOLOCATE

lat: 37.42199833333333, lng: -122.084

Line 5 Col 90 Mixed LF

Terminal Errors Build Output Tools Package Console Application Output - pdc0_mod0_ac01 Android Tool Output XAMARIN_HOT_REFRESH Renderers ProGet Deploying to Device