

# Networking

# Introduction

- ❖ The WP7 platform supports many of the classes available on the .NET framework.

# Twitter Sample

- ❖ The following code sample retrieves tweets of a selected user.

# Twitter Sample

```
<phoneNavigation:PhoneApplicationPage
  x:Class="simple_twitter_client.MainPage"
  xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
  xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
  xmlns:phoneNavigation="clr-namespace:Microsoft.Phone.Controls;assembly=
    Microsoft.Phone.Controls.Navigation"
  xmlns:d="http://schemas.microsoft.com/expression/blend/2008"
  xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
  mc:Ignorable="d" d:DesignWidth="480" d:DesignHeight="800"
  FontFamily="{StaticResource PhoneFontFamilyNormal}"
  FontSize="{StaticResource PhoneFontSizeNormal}"
  Foreground="{StaticResource PhoneForegroundBrush}">

  <Grid x:Name="LayoutRoot" Background="{StaticResource PhoneBackgroundBrush}">
    <Grid.RowDefinitions>
      <RowDefinition Height="Auto"/>
      <RowDefinition Height="*/>
    </Grid.RowDefinitions>
    <Grid x:Name="TitleGrid" Grid.Row="0">
      <TextBlock Text="MY APPLICATION" x:Name="textBlockPageTitle"
        Style="{StaticResource PhoneTextPageTitle1Style}"/>
      <TextBlock Text="Get Tweets" x:Name="textBlockListTitle"
        Style="{StaticResource PhoneTextPageTitle2Style}"/>
    </Grid>
  </Grid>
</phoneNavigation:PhoneApplicationPage>
```

# Twitter Sample

```
<Grid x:Name="ContentGrid" Grid.Row="1">
  <TextBox Height="72" HorizontalAlignment="Left" Margin="6,22,0,0"
    Name="textBox1" Text="" VerticalAlignment="Top" Width="327" />
  <Button Content="Send" Height="72" HorizontalAlignment="Left"
    Margin="325,22,0,0" Name="button1" VerticalAlignment="Top" Width="149"
    Click="button1_Click" />
  <ListBox Height="500" HorizontalAlignment="Left" Margin="20,122,0,0"
    Name="listBox1" VerticalAlignment="Top" Width="439">
    <ListBox.ItemTemplate>
      <DataTemplate>
        <StackPanel Orientation="Horizontal" Height="140">
          <Image Source="{Binding ImageUrl}" Height="80" Width="80"
            VerticalAlignment="Top" Margin="0,8,8,0"/>
          <StackPanel Orientation="Vertical" Width="320">
            <TextBlock Text="{Binding UserName}"
              Foreground="Aqua" FontSize="20"/>
            <TextBlock Text="{Binding Message}"
              TextWrapping="Wrap" FontSize="16"/>
          </StackPanel>
        </StackPanel>
      </DataTemplate>
    </ListBox.ItemTemplate>
  </ListBox>
</Grid>
</Grid>
</phoneNavigation:PhoneApplicationPage>
```

# Twitter Sample

```
namespace simple_twitter_client
{
    public partial class MainPage : PhoneApplicationPage
    {
        public MainPage()
        {
            InitializeComponent();
            SupportedOrientations =
                SupportedPageOrientation.Portrait |
                SupportedPageOrientation.Landscape;
        }

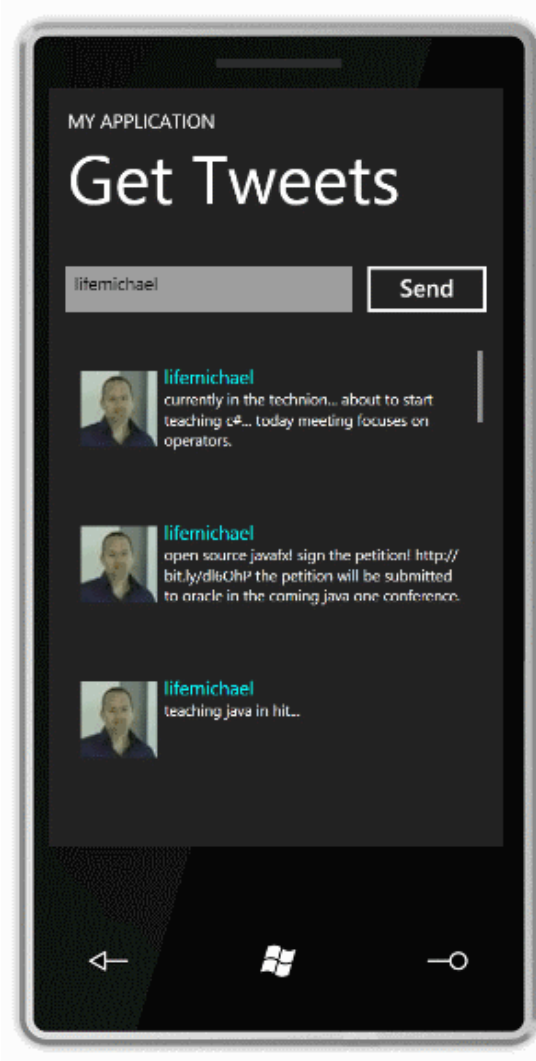
        private void button1_Click(object sender, RoutedEventArgs e)
        {
            WebClient twitter = new WebClient();
            twitter.DownloadStringCompleted += UpdateScreen;
            twitter.DownloadStringAsync(
new Uri("http://api.twitter.com/1/statuses/user_timeline.xml?screen_name=" +
textBox1.Text));
        }
    }
}
```

make sure to add the `System.Xml.Linq!`

# Twitter Sample

```
public void UpdateScreen(object sender,
    DownloadStringCompletedEventArgs e)
{
    XElement tweets = XElement.Parse(e.Result);
    listBox1.ItemsSource = from tweet in tweets.Descendants("status")
        select new Tweet
        {
            ImageUrl = tweet.Element("user").Element("profile_image_url").Value,
            Message = tweet.Element("text").Value,
            UserName = tweet.Element("user").Element("screen_name").Value
        };
}
}
public class Tweet
{
    public string UserName { get; set; }
    public string Message { get; set; }
    public string ImageUrl { get; set; }
}
}
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# Twitter Sample





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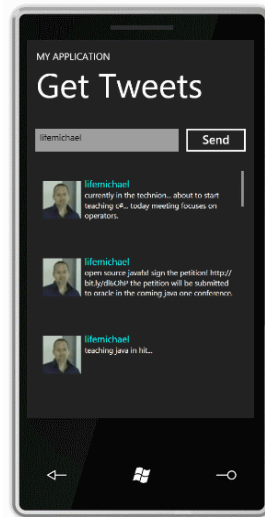
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