Xamarin

Mobile App Development & App Creation Software

David Suescun Pelegay

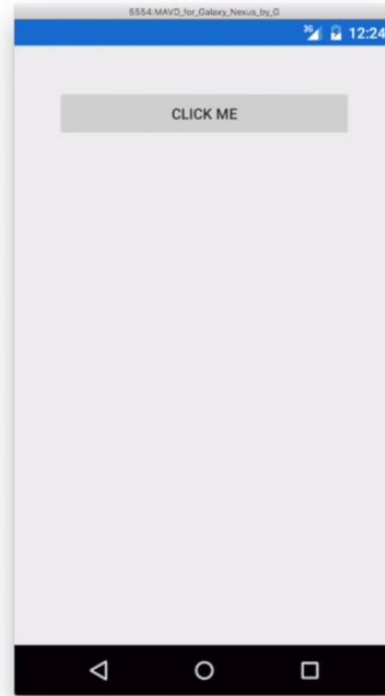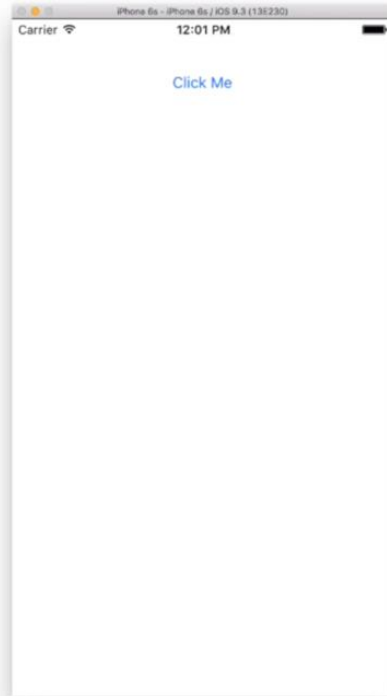https://www.linkedin.com/in/DavidSuescunPelegay/

¿Xamarin Platform?

Librería de Microsoft para hacer aplicaciones nativas en:

84.1%   14.8%   0.7%   0.4%

Con Xamarin programamos para el 99.6% de los smartphones mundiales
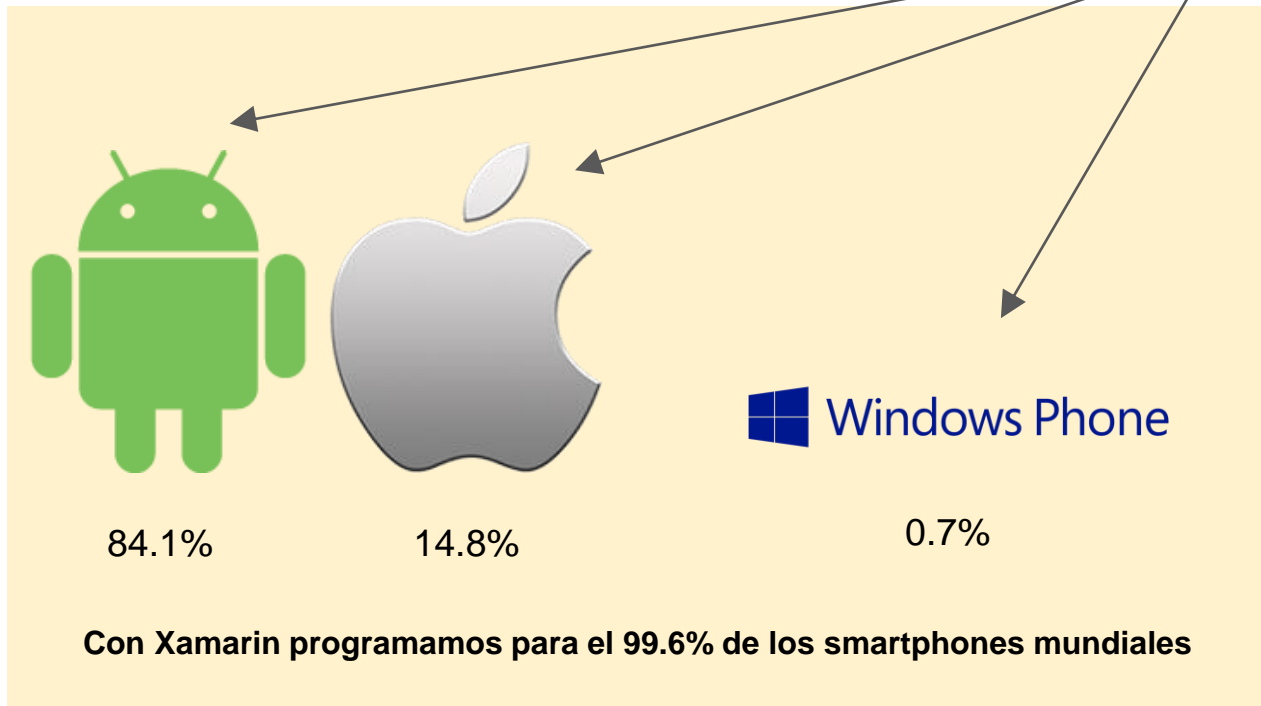
Ventajas de Xamarin

Ventajas de Xamarin
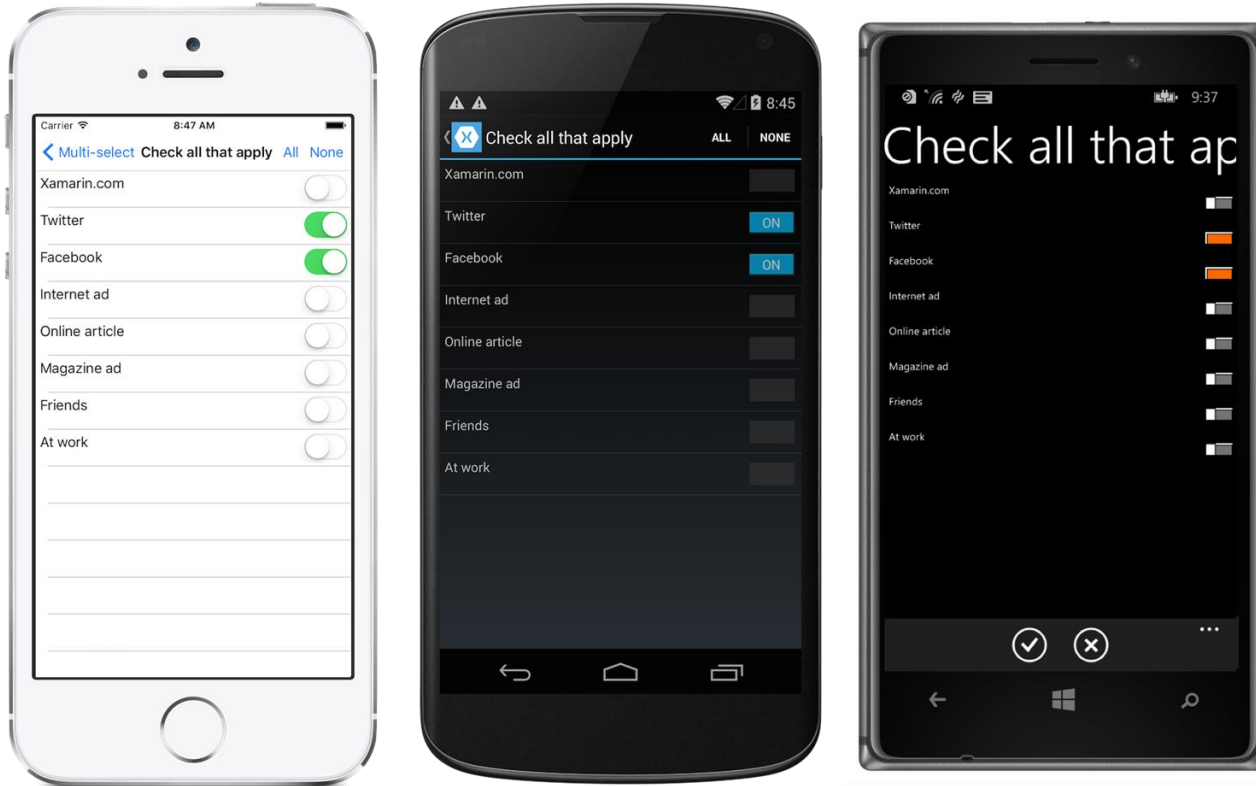
Activities vs. Fragments

Misma Activity,
Differente Fragment
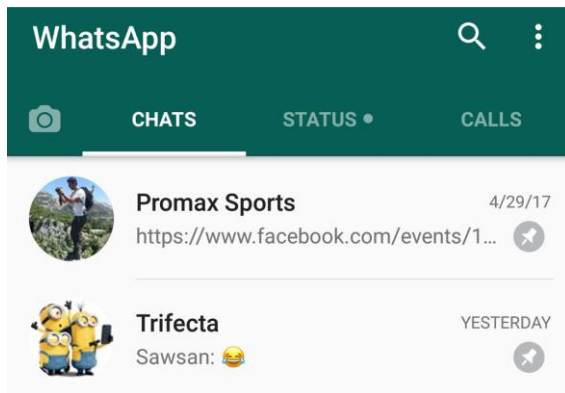
Diferente Activity,
Differente Fragment
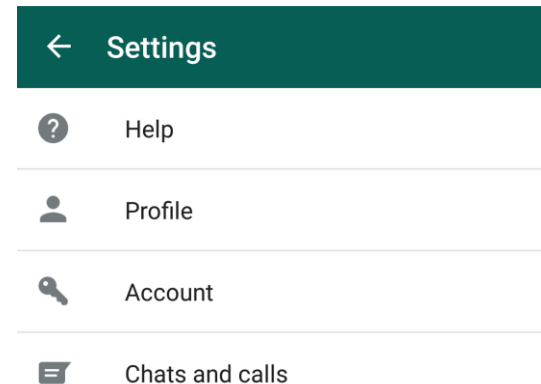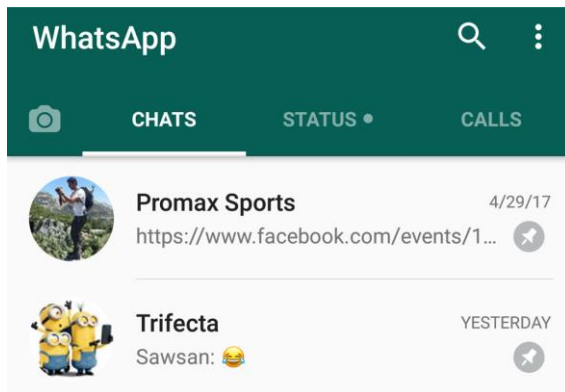
Cada Activity y Fragment tiene una clase C# asociada.

Activity. Ciclo de Vida

Activity starts

OnCreate()

OnStart() ← OnRestart()

OnResume()

Activity is running

OnPause()

Activity is backgrounded

OnStop()
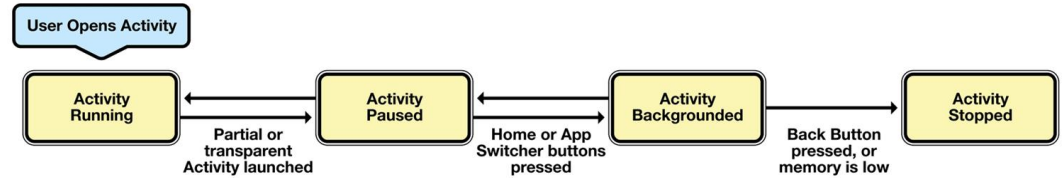
OnDestroy()

Activity is stopped

User Opens Activity

| Activity Running | | Activity Paused | | Activity Backgrounded | | Activity Stopped |

Partial or transparent Activity launched

Home or App Switcher buttons pressed

Back Button pressed, or memory is low
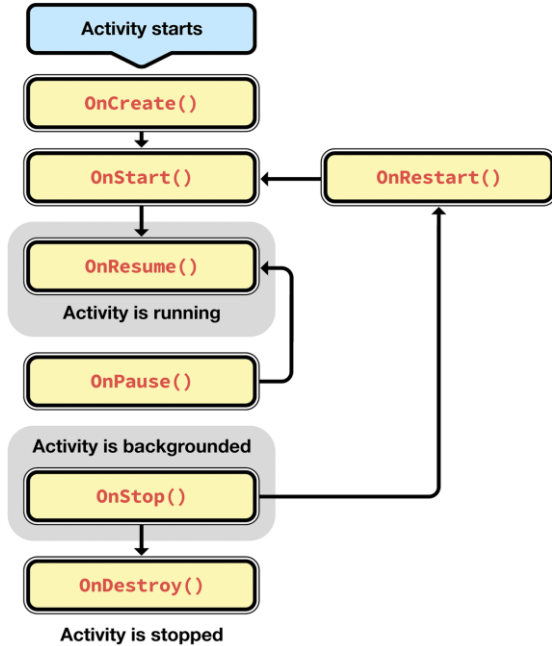
https://developer.xamarin.com/guides/android/application_fundamentals/activity_lifecycle/

Fragment. Ciclo de Vida

https://developer.xamarin.com/guides/android/platform_features/fragments/part_1_-_creating_a_fragment/
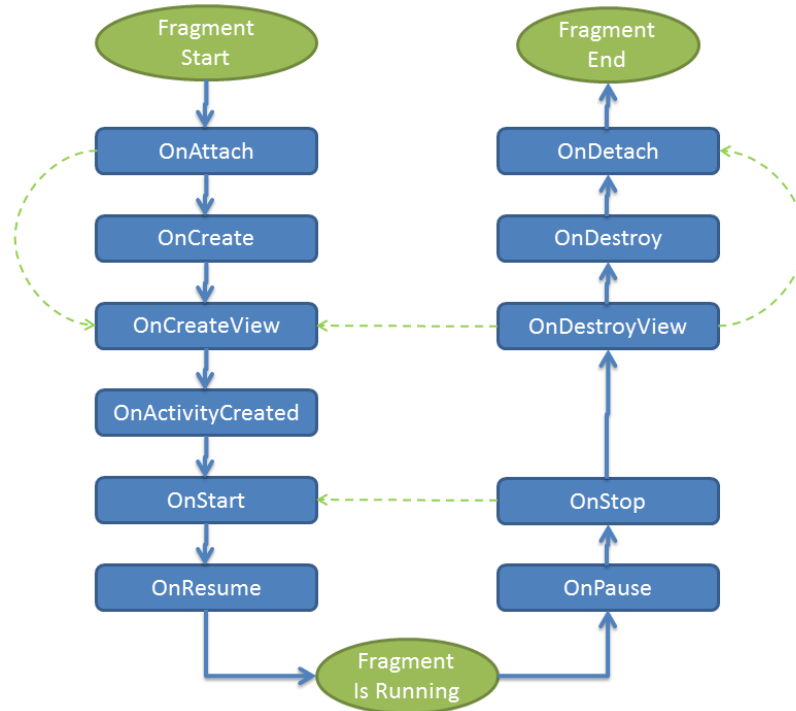
Entendiendo los Layouts (XAML)

MainWindow.xaml
  MainWindow.xaml.cs
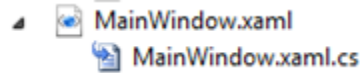
```xml
<?xml version="1.0" encoding="UTF-8"?>
<ContentPage
        xmlns="http://xamarin.com/schemas/2014/forms"
        xmlns:x="http://schemas.microsoft.com/winfx/2009/>
        x:Class="Monkeys.Views.MonkeysPage"
        xmlns:design="clr-namespace:Monkeys;assembly=Monke
        xmlns:controls="clr-namespace:ImageCircle.Forms.Pl
        BindingContext="{x:Static design:ViewModelLocator.
        Title="Traditional Monkey">
    <ContentPage.Content>
        <StackLayout>
            <Button Text="How many monkeys?" x:Name="Butto
            <Label Margin="10,0"
                   Text="{Binding MonkeyCount, StringForm
            <ListView ItemsSource="{Binding MonkeysGrouped
                      ItemTapped="Handle_ItemTapped"
                      ItemSelected="Handle_ItemSelected"
                      HasUnevenRows="true"
                      GroupShortNameBinding = "{Binding Key}
                      IsGroupingEnabled = "true"
                      GroupDisplayBinding = "{Binding Key}">
                <ListView.ItemTemplate>
                    <DataTemplate>
                        <ViewCell>
                            <Grid Padding="10" RowSpacing=
                                <Grid.RowDefinitions>
                                    <RowDefinition Height=
                                    <RowDefinition Height=
```

```csharp
using System;
using System.Collections.Generic;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Timers;
using MonoTouch.Foundation;
using MonoTouch.UIKit;

namespace TMRTaxi
{
    internal class Support
    {
        internal delegate void Anaction(object sender, EventArgs args);

        public const string DbName = @"TMR.db3";
        public static int buttonDim { get; set; }
        private static Timer thirtysecs;
        private static bool timerGuardFlag;
        private static bool canReachWebServer;
        public static Anaction timerEvent=null;

        public string id()
        {
            return new UIDevice().IdentifierForVendor.ToString();
        }

        internal static UIButton getTaxiButton(string _title, int _x, int _y, Anaction d)
        {
            var button = UIButton.FromType(UIButtonType.RoundedRect);
            button.Frame = new RectangleF(_x, _y, buttonDim, buttonDim);
            button.SetTitle(_title, UIControlState.Normal);
            button.Font = UIFont.SystemFontOfSize(24);
            button.TouchUpInside += (o, e) => d(o, e);
            return button;
        }

        internal static bool IsWebServerReachable
        {
```
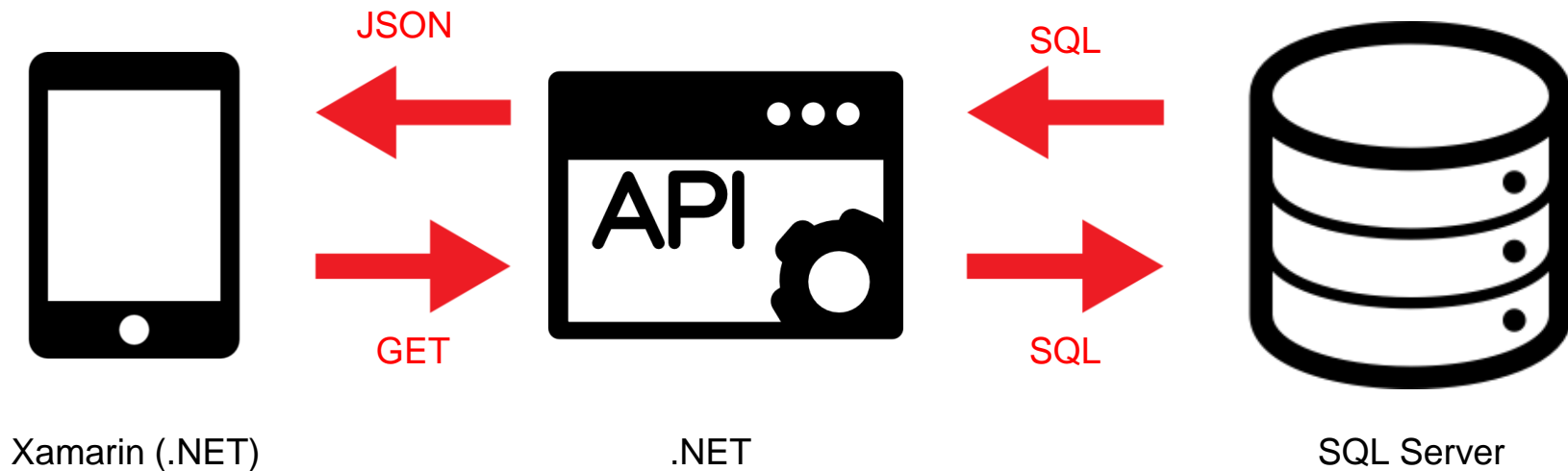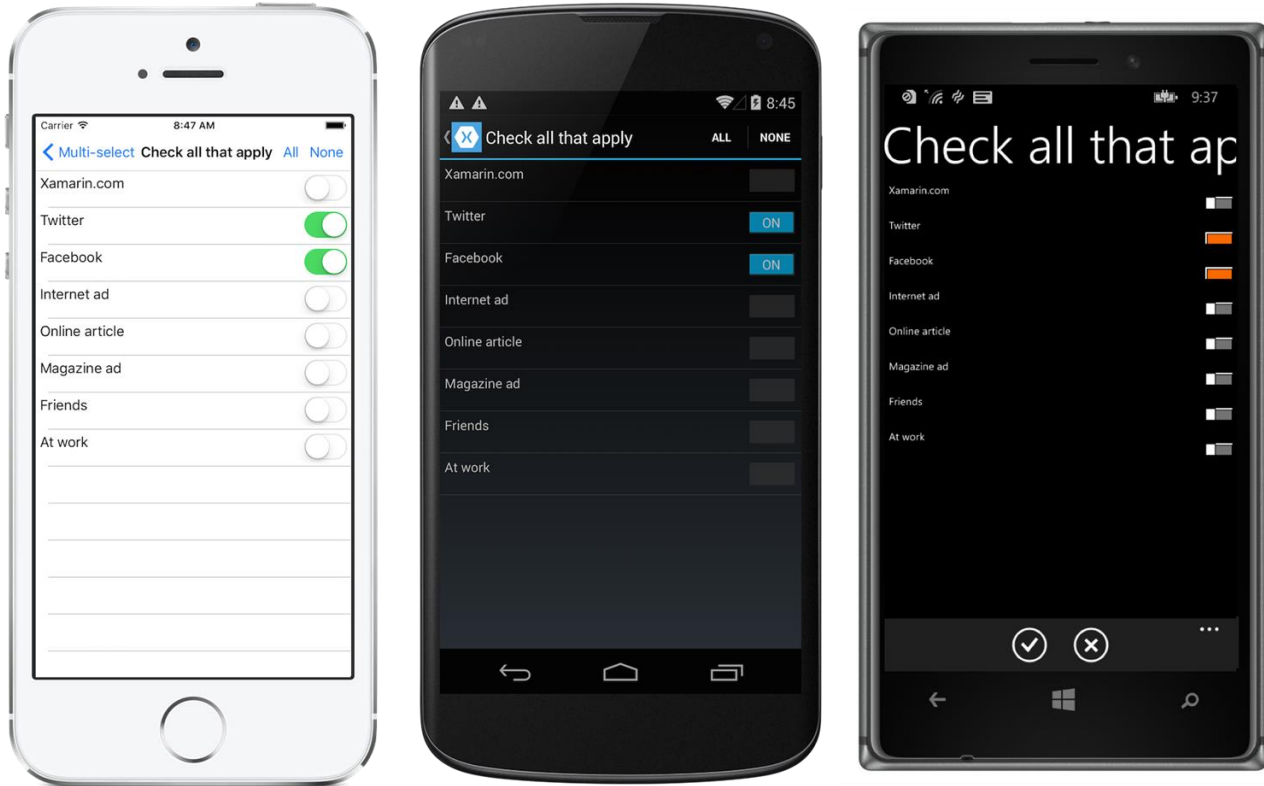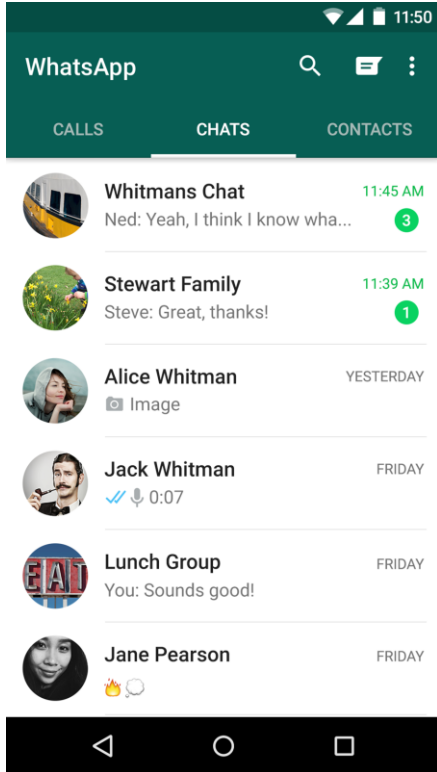
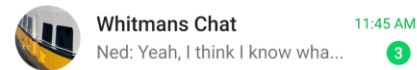# Nuestra app

JSON

SQL

API

GET

SQL

Xamarin (.NET)

.NET

SQL Server

ListView

Parte Xamarin

ListView

ListItem