Getting hands on with XAML and Xamarin.Forms

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Xamarin Certified Developer

Objectives

- ► Understanding Xamarin.Forms
- ► XAML Syntax & Behavior
- ► Advanced XAML

Understanding Xamarin.Forms

What is Xamarin.Forms?

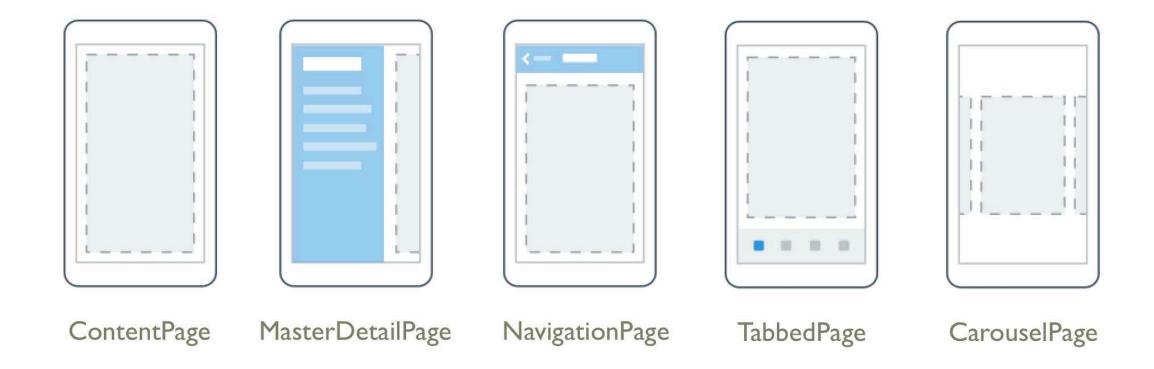
- Xamarin.Forms allows you to rapidly create a cross platform app with a native UI.
- Can be created in either a Shared Class Library or Portable Class Library
- Great for Prototyping or Data-Driven apps.
- Can also use dependency service to access platform specific features.

Understanding Xamarin.Forms Ul

Xamarin.Forms UI is defined in 4 different ways; Pages, Layouts, Cells, and Views.

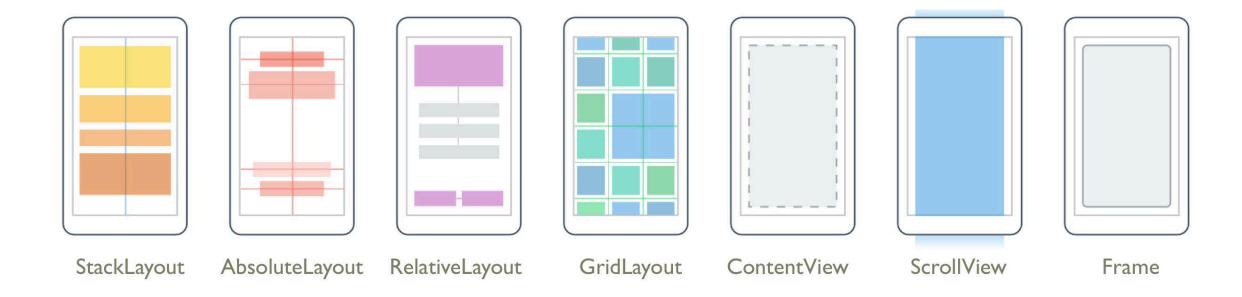
What is a Page?

* A page is used to define a single screen that contains most or all of the screen.



What is a Layout?

❖ A layout is a special type of view that acts as a container for other views or layouts.



What is a View?

- ❖ A View is the term Xamarin. Forms uses for all its basic controls from Buttons to Progress Bars.
- Some of the Views Xamarin. Forms contains are
 - Button
 - Date Picker
 - Entry (input box)
 - Label
 - Picker (The phones form of dropdown list)
 - Progress Bar

A full list of Views at https://developer.xamarin.com/guides/cross-platform/xamarin-forms/controls/views/

What is a Cell?

- ❖ A Cell is a special element that is used inside tables and defines how each item in a list is rendered.
- An example of Cells Xamarin. Forms supports:
 - Entry Cell
 - Switch Cell
 - Text Cell
 - Image Cell

Traditional way to build Forms apps

- * Xamarin.Forms apps are commonly built using all using C# and not XAML.
- A new Xamarin. Forms app is usually created with a dummy app in a cs file

```
public App()
   // The root page of your application
   MainPage = new ContentPage {
       Content = new StackLayout {
          Verti cal Opti ons = LayoutOpti ons. Center,
          Children = {
              new Label {
                 XAlign = TextAlignment. Center,
                 Text = "Welcome to Xamarin Forms!"
```

XAML Syntax & Behavior

What is XAML?

- ❖ XAML stands for Extensible Markup Language and was created by Microsoft specifically for working with the UI
- ❖ A XAML file is always associated with a C# code file.

Why use XAML over all code in a .cs file?

- Designer can create UI while coder focuses on code in the code file
- XAML allows for features like DataBinding Animations, Custom behaviors, value converters & more.
- Easier to work with for those who like to have a more visual representation of their layouts
- Helps keep a separation between UI and app logic

Breakdown Of a XAML File

XAML Syntax

Building a layout in XAML

Using OnPlatform

Attached properties

Advanced XAML

Using Resource Dictonary

Resource Dictionary hierarchy

Data Binding + XAML + Forms

Hands on Lab

What's Next?

- ▶ Data Binding with Xamarin.Forms & XAML
- List views and collections with Data Binding, XAML, & Xamarin.Forms

Questions?

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