



Lightning Lecture //

How to create a “Sign in” screen flow in Xamarin.Forms

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Objectives

1. We have a Feature – Sign in
2. Xamarin.Forms Navigation
3. A solution



We have this feature –
Sign in ...



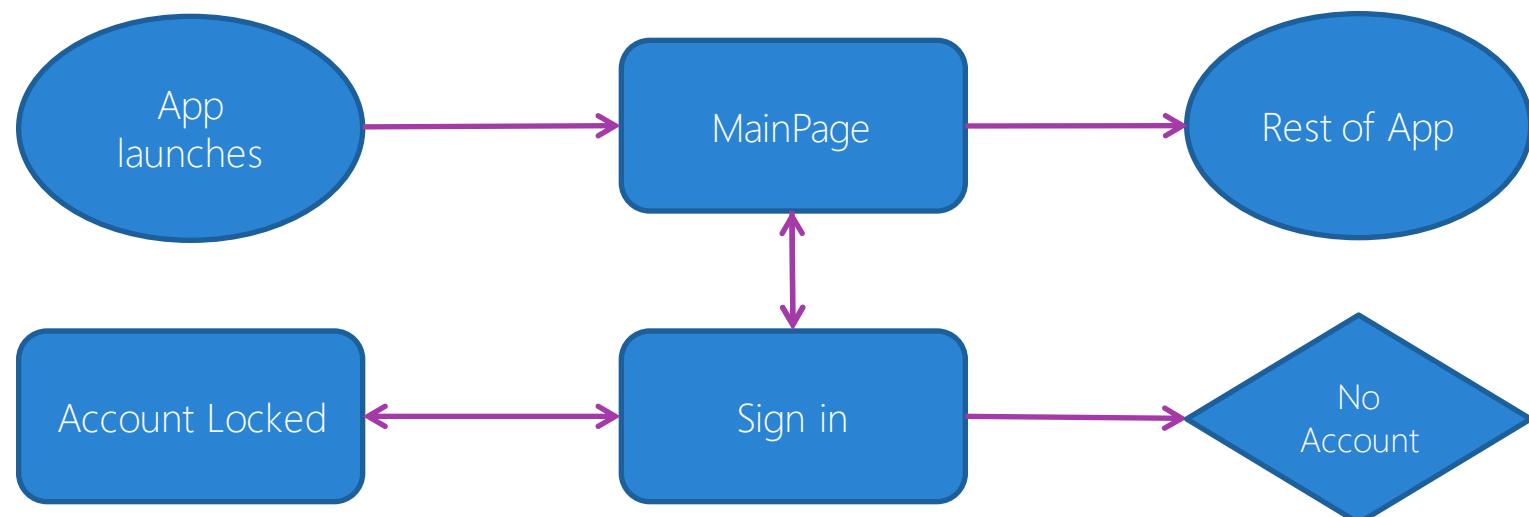
Tasks

1. The sign in flow
2. Authentication vs. Authorization

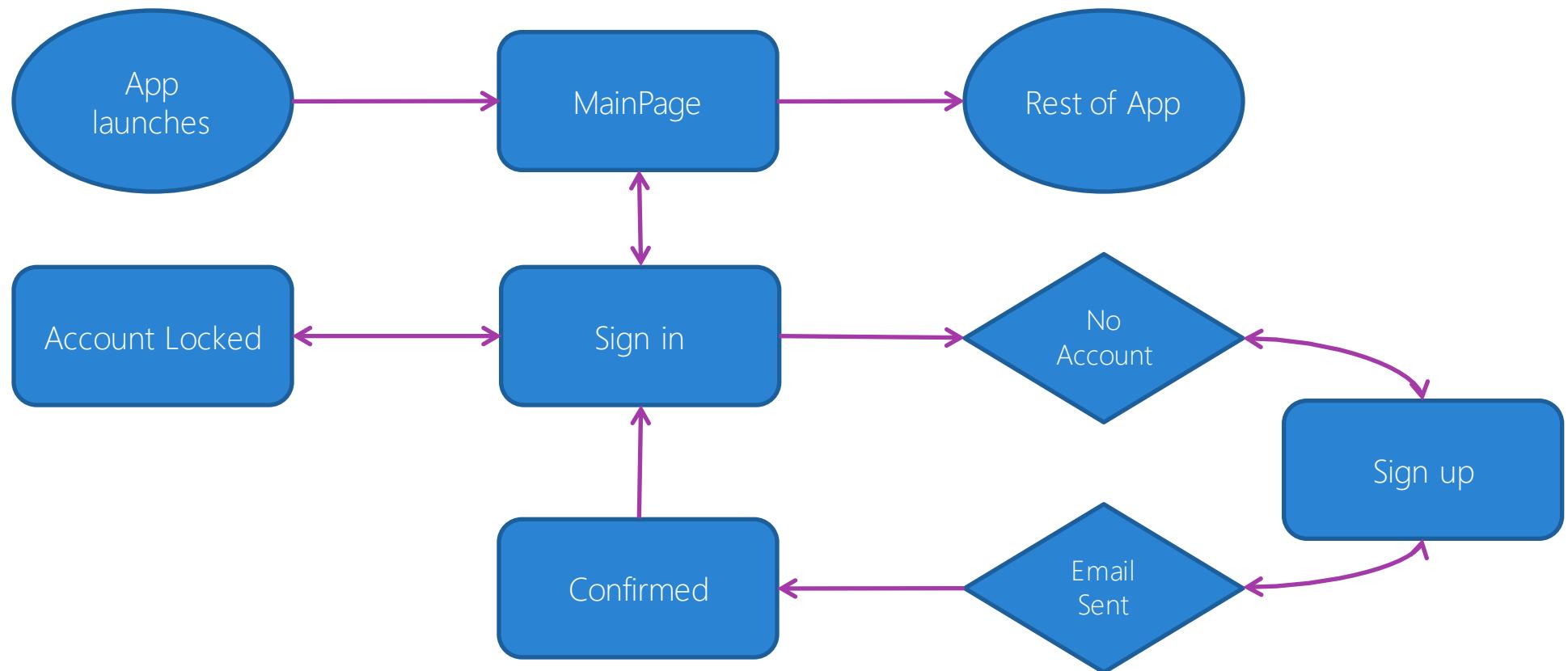


Sign in Flow

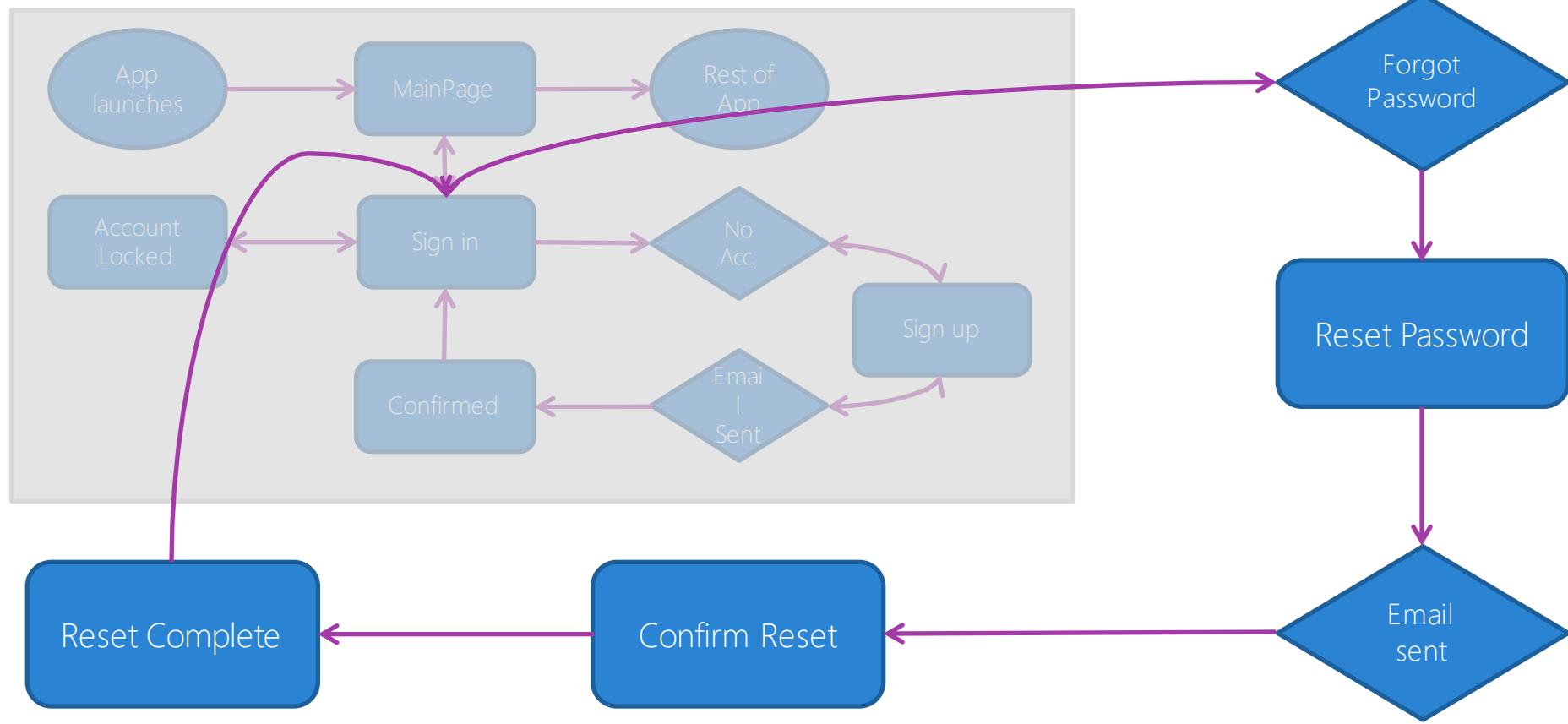
As "Bob"
I would like to Sign in
So that I can use the application



Sign in ... no ... Sign in & up



Sign in ... no ... Sign in & up



Authentication vs. Authorization

Authentication

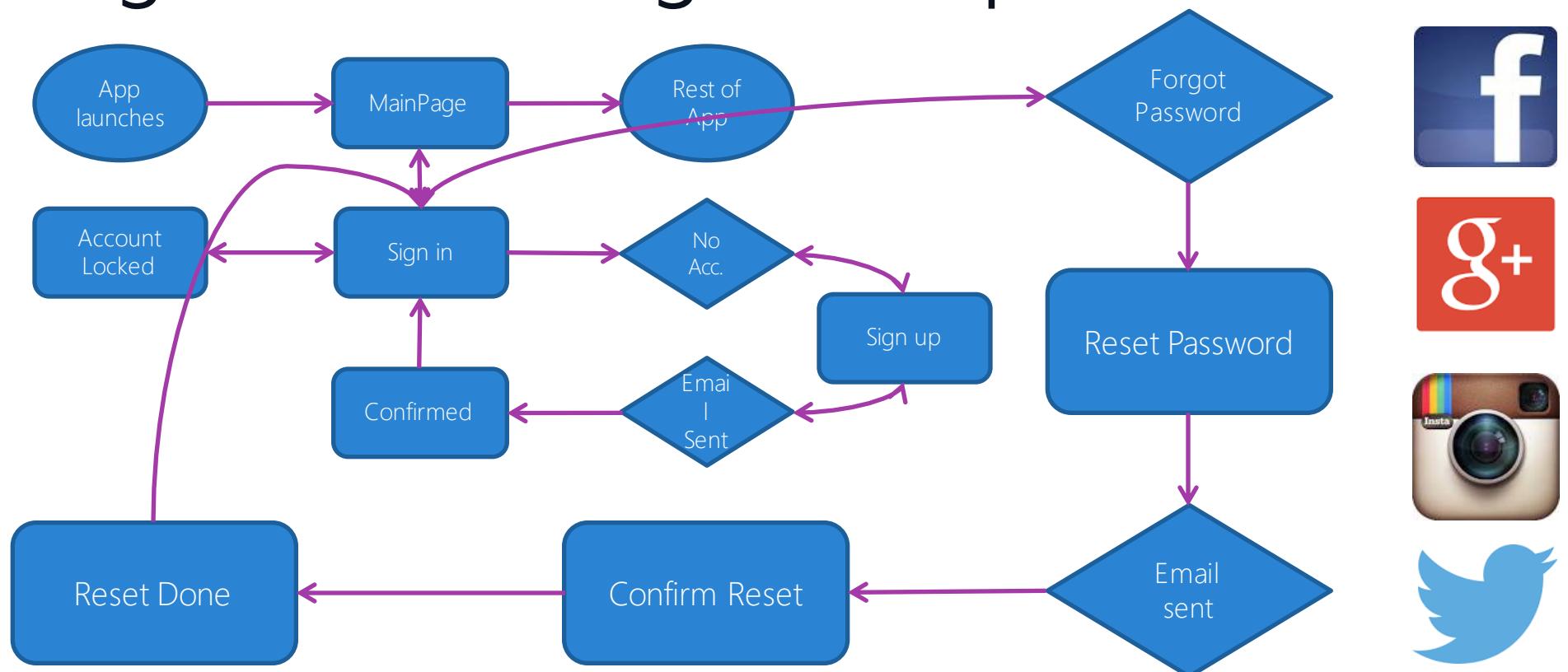
The act of confirming the truth of an attribute of a single piece of data claimed true by an entity.

Authorization

The function of specifying access rights to resources related to information security and computer security in general and to access control in particular.



Sign in ... no ... Sign in & up



Xamarin.Forms Architecture



Tasks

1. Modal Pages
2. Modeless Pages
3. The Application.MainPage

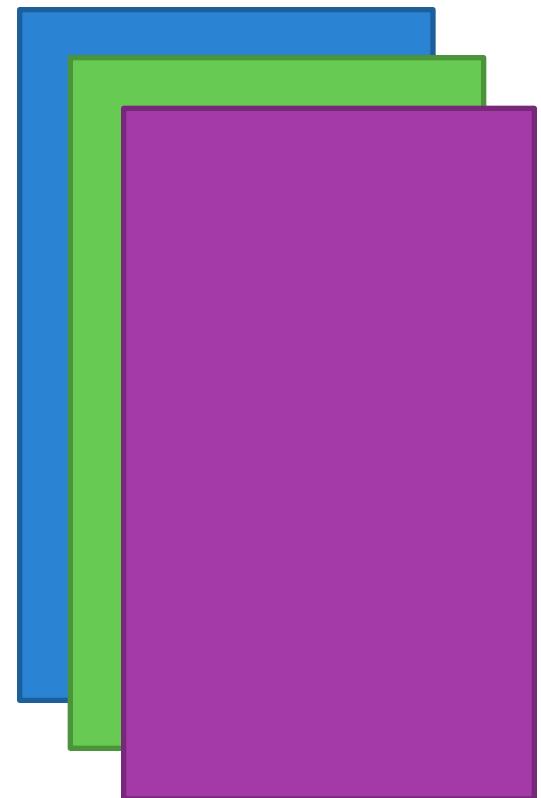


[Motivation] The Navigation Stack

The Navigation Stack is a concept all of us are familiar with.

When one page **navigates to** another, the page navigated from is **pushed onto the stack**.

When the **page goes back**, it gets **popped from the stack** and the previous page is visible.



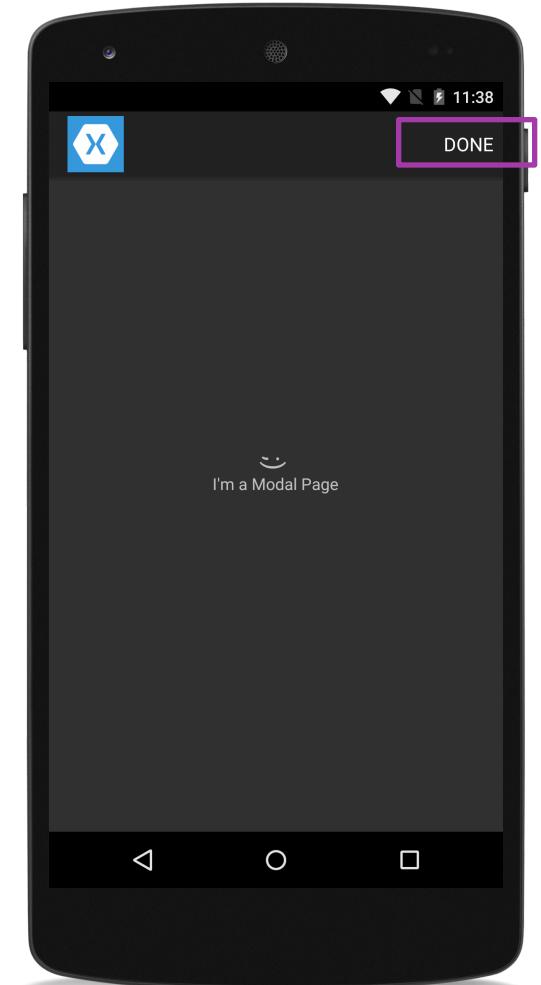
Modal Pages

Are generally used for the following reason:

The app **needs** some **information** from the user, but does not allow the user to navigate back.

```
Task Navigation.PushModalAsync (Page page);
```

```
Task <Page> Navigation.PopModalAsync ();
```



A modal page must provide its own user-interface for back navigation.

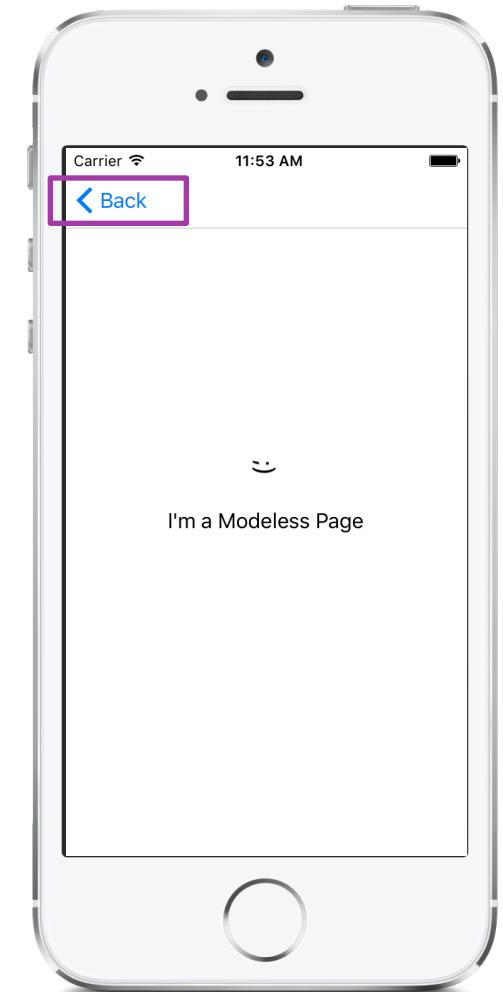
Modeless Pages

Are generally used for the following reason:

For standard forward and back navigation and the user is required to use the software or hardware provided back button.

```
Task Navigation.PushAsync (Page page);
```

```
Task <Page> Navigation.PopAsync ();
```



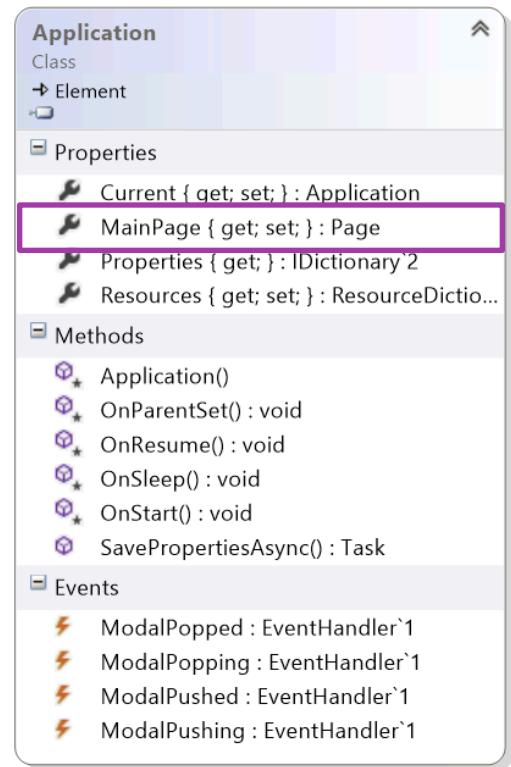
Why is this important ?

- Is there a landing page?
- Is the rest of the app locked down?
- Does the app allow Sign in ?
- Does the app allow Sign up ?
- Is there a login with button, e.g. Facebook ?

Deciding on combinations of Modal and Modeless pages will determine how our app deals with the answers on the above.

Application.[MainPage]

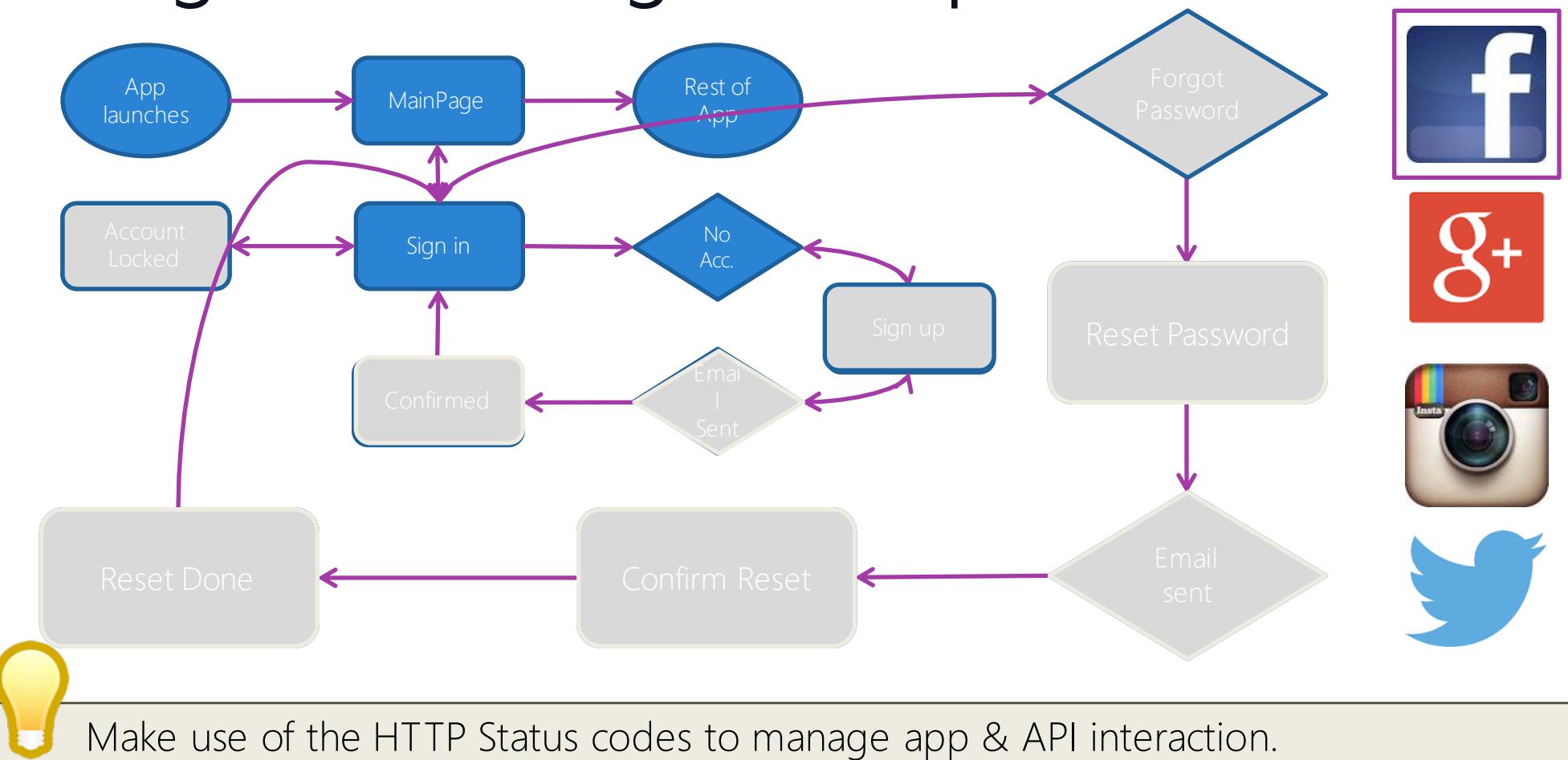
The **MainPage** property sets the root page of the application.



A solution



Login ... no ... Sign in & up



Demonstration

Coding the Sign up feature



Resources

<https://developer.xamarin.com/guides/cross-platform/xamarin-forms/>

<https://developers.facebook.com/docs/graph-api/using-graph-api/v2.4>

<https://github.com/xamarin/Xamarin.Auth>

<http://www.restapitutorial.com/httpstatuscodes.html>

<https://github.com/jamesmontemagno/Xamarin.Plugins>

<https://www.nuget.org/packages/Xam.Plugins.Forms.ImageCircle/>

<https://github.com/CaveBirdLabs/PagedCarouselPage>

<https://github.com/Cheesebaron/ViewPagerIndicator>

<https://github.com/aritchie/userdialogs>

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