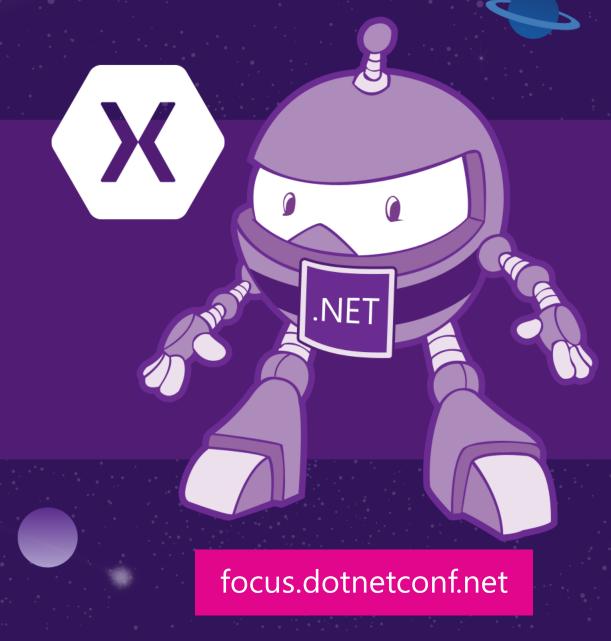
.NET Conf "Focus on Xamarin"

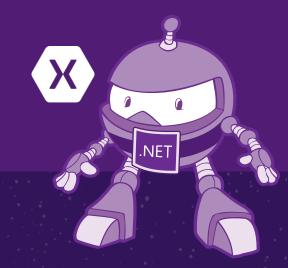




Xamarin.Forms Shell

Shane Neuville (he/him) Xamarin.Forms Senior Engineer Microsoft

PUREWEEN

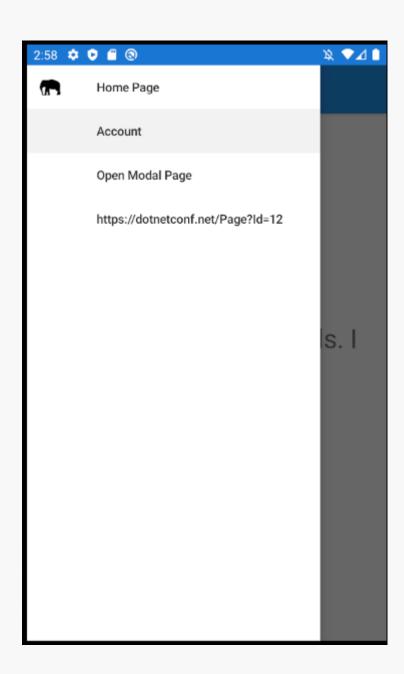


What is Shell?

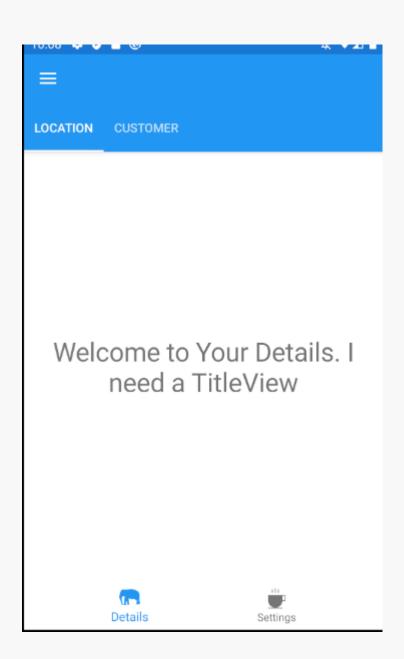
- Declarative Application Structure
- Simplified Navigation
- Easy to Customize
- Rapidly build the apps you want

Declarative App Structure

```
<FlyoutItem</pre>
    Title="Home Page"
  ...Icon="elephant.png">
    <ShellContent Route="HomePage"</pre>
 </ShellContent>
</FlyoutItem>
<FlyoutItem Title="Account">
         Title="Details" Route="Det
    <Tab
    <Tab | Title="Settings" Route="Se
</FlyoutItem>
<TabBar Title="Goto Uri Page"...>
<MenuItem Text="Open Modal Page" Co
<MenuItem Text="https://dotnetconf.</pre>
```



Declarative App Structure

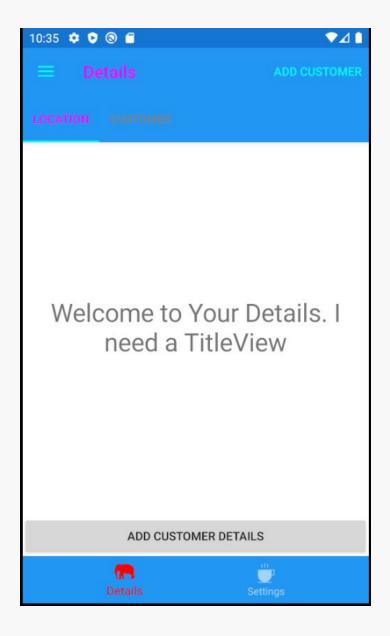


Shell Theming

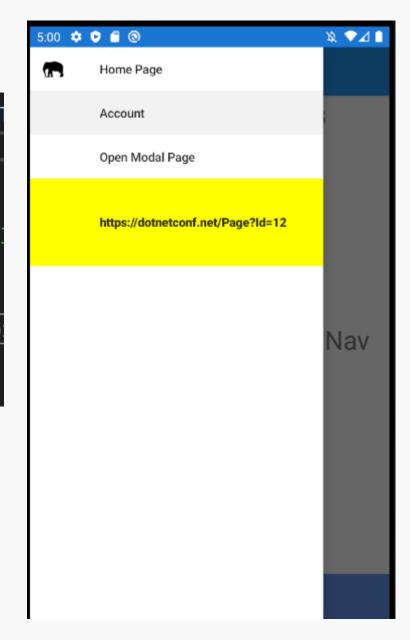
```
<Shell.Resources>
   <Color x:Key="NavigationPrimary">#2196F3</Color>
   <Style x:Key="BaseStyle" TargetType="Element">
       <Setter Property="Shell.BackgroundColor" Value="{StaticResource NavigationPrimary}" />
       <Setter Property="Shell.ForegroundColor" Value="Cyan" />
       <Setter Property="Shell.TitleColor" Value="Magenta" />
       <Setter Property="Shell.DisabledColor" Value="#B4FFFFFF" />
       <Setter Property="Shell.UnselectedColor" Value="Gray" />
       <Setter Property="Shell.TabBarBackgroundColor" Value="{StaticResource NavigationPrimary}" /</pre>
       <Setter Property="Shell.TabBarForegroundColor" Value="White"/>
       <Setter Property="Shell.TabBarUnselectedColor" Value="#95FFFFFF"/>
       <Setter Property="Shell.TabBarTitleColor" Value="Red"/>
   </Style>
   <Style TargetType="TabBar" BasedOn="{StaticResource BaseStyle}" />
   <Style TargetType="FlyoutItem" BasedOn="{StaticResource BaseStyle}" />
                                                                ADD CUSTOMER DETAILS
```

Details

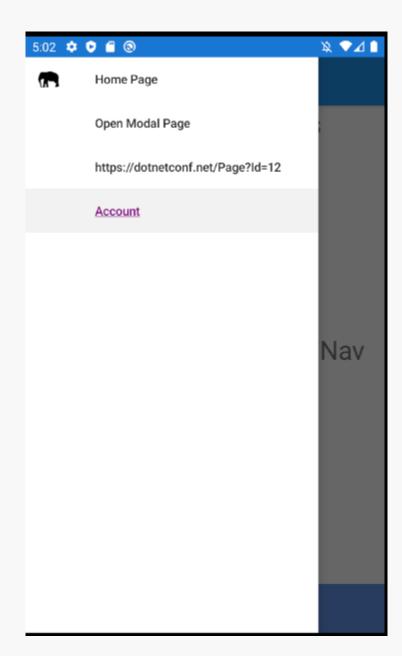
Settings



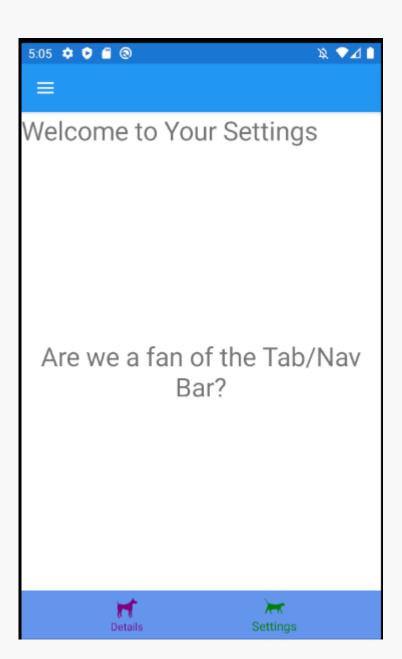
Flyout Customization



Flyout StyleClass (4.6)



Tab Styling



Shell Navigation

- Name your destination.
- Go there from anywhere
- Register generic pages
- Deep link navigation
- It's just a string!!!
 - Save app location
 - Navigate to location on app from web url

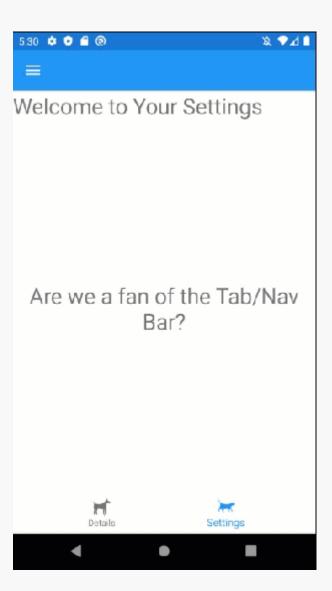
```
<Tab Title="Details" Route="Details"
await Shell.Current.GoToAsync("//Details");
Routing.RegisterRoute("ModalPage", typeof(ModalPage));
await GoToAsync("//Details/ModalPage");</pre>
```

await GoToAsync("https://dotnetconf.net/Details?Id=12");

Modal Page Support (4.5)

Shell.PresentationMode="Modal"

await Shell.Current.GoToAsync("ModalPage");



Shell Navigation – Passing Parameters

Attribute View or VM.

Navigate

```
await Shell.Current.GoToAsync("//Page?Id=12");
```

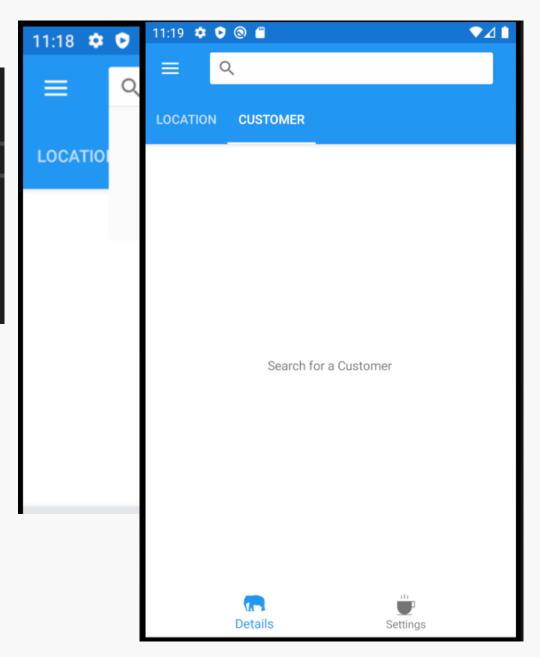
Shell Navigation – Events

Navigating

Navigated

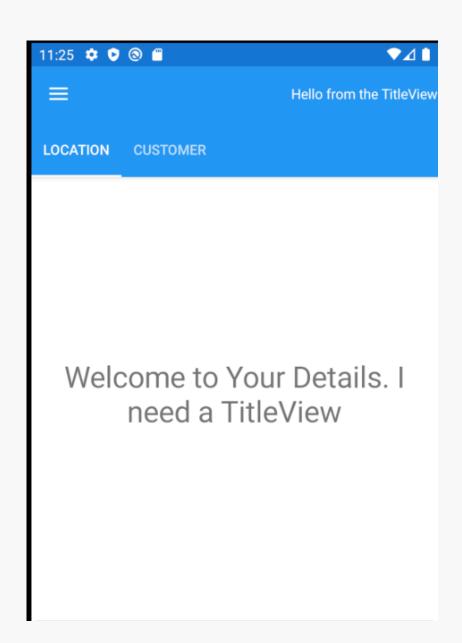
```
1 reference | 0 changes | 0 authors, 0 changes
void OnShellNavigated(object sender, ShellNavigatedEventArgs e)
{
    Preferences.Set("LastKnownUrl", e.Current.Location.ToString());
}
```

Shell – Search Handler

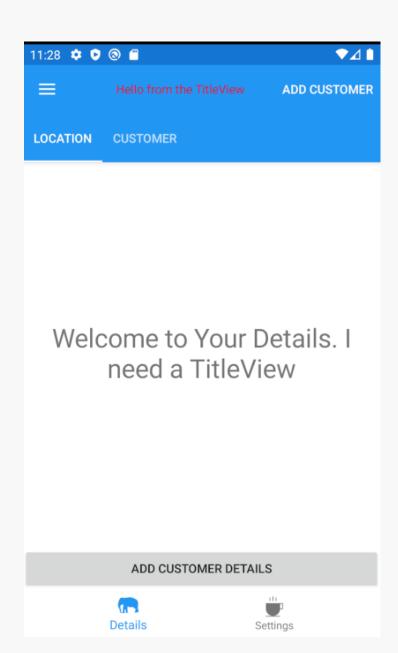


Shell – TitleView

```
<Shell.TitleView>
   StackLayout>
     <Label TextColor="White"</pre>
        Text="Hello from the TitleView"
        \text{\text{VerticalOptions="CenterAndExpand"}
     ----+ HorizontalOptions="End"
    VerticalTextAlignment="Center">
  ························/Label>
  ···</StackLayout>
</Shell.TitleView>
<ContentPage.Content>
```



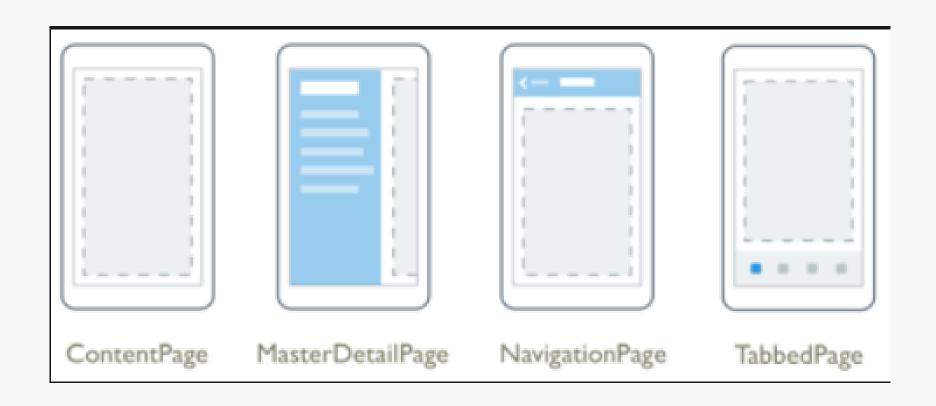
Shell – Toolbarltems



9319339393193193193193193

Code demo

Replacement for all page types



What's coming

- 3rd party MVVM support
 - Actively working with FreshMVVM, RxUI, and Prism
- TitleView fixes
- Templating everything
- Dual Screen Support
- Performance improvements
- https://github.com/xamarin/Xamarin.Forms/projects/
 54
- Push Shell onto stack