

Adding the Android Application



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Agenda



Setting up the Android project

Creating a single object view

Creating a list view

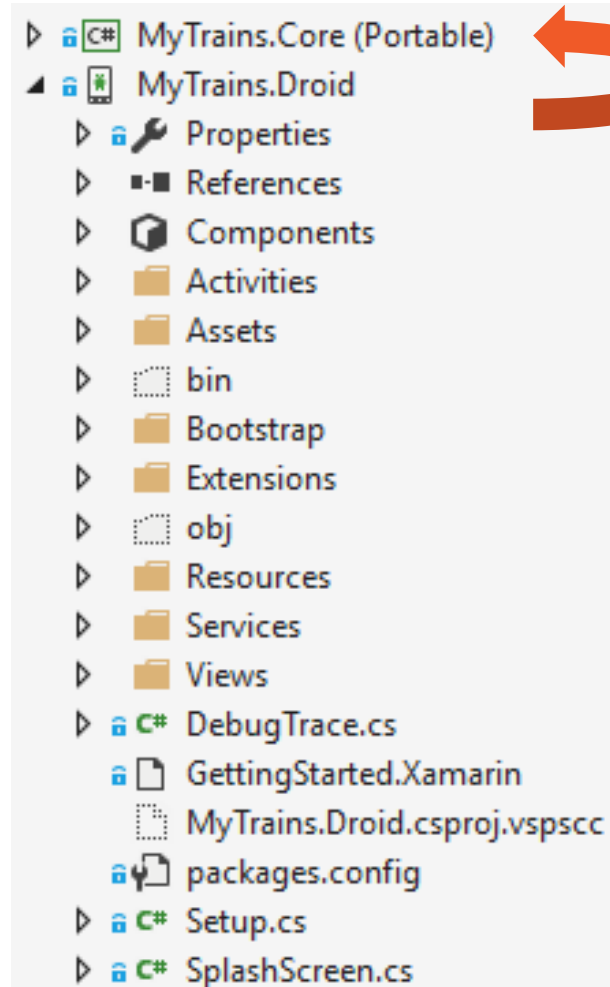
Adding navigation with the
DrawerLayout



Setting up the Android Project



The Android Project



Adding the Required Packages

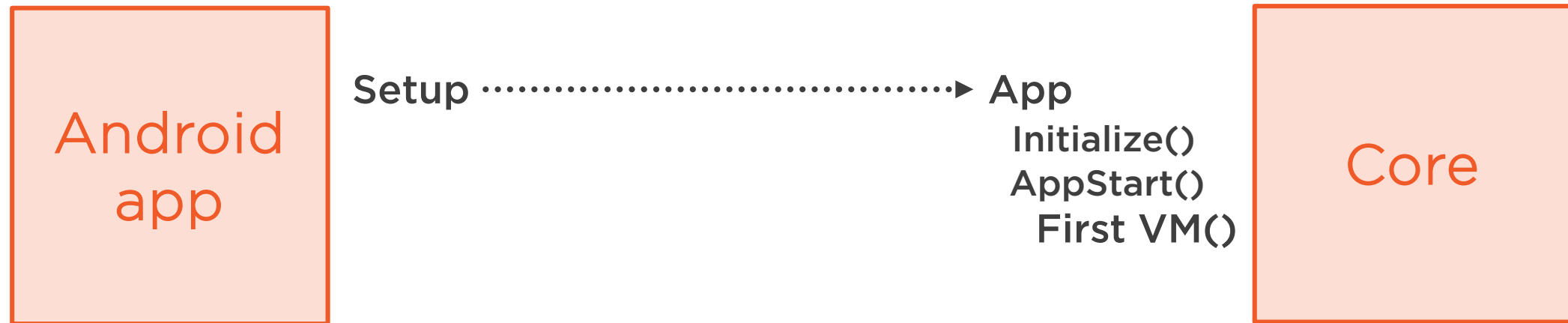
**MvvmCross &
related**

**MvvmCross
Plugins**

**Xamarin.Android
Support packages**



Application Startup



Setup

```
public class Setup: MvxAndroidSetup
{
    public Setup(Context applicationContext)
        :base(applicationContext)
    { }

    protected override IMvxApplication CreateApp()
    {
        return new Core.App();
    }
}
```



Adding a Splash Screen

```
[Activity(  
    Label = "@string/ApplicationName", MainLauncher = true)]  
public class SplashScreen : MvxSplashScreenActivity  
{  
    public SplashScreen()  
        : base(Resource.Layout.SplashScreen)  
    {  
    }  
}
```



Demo



Setting up the Android project

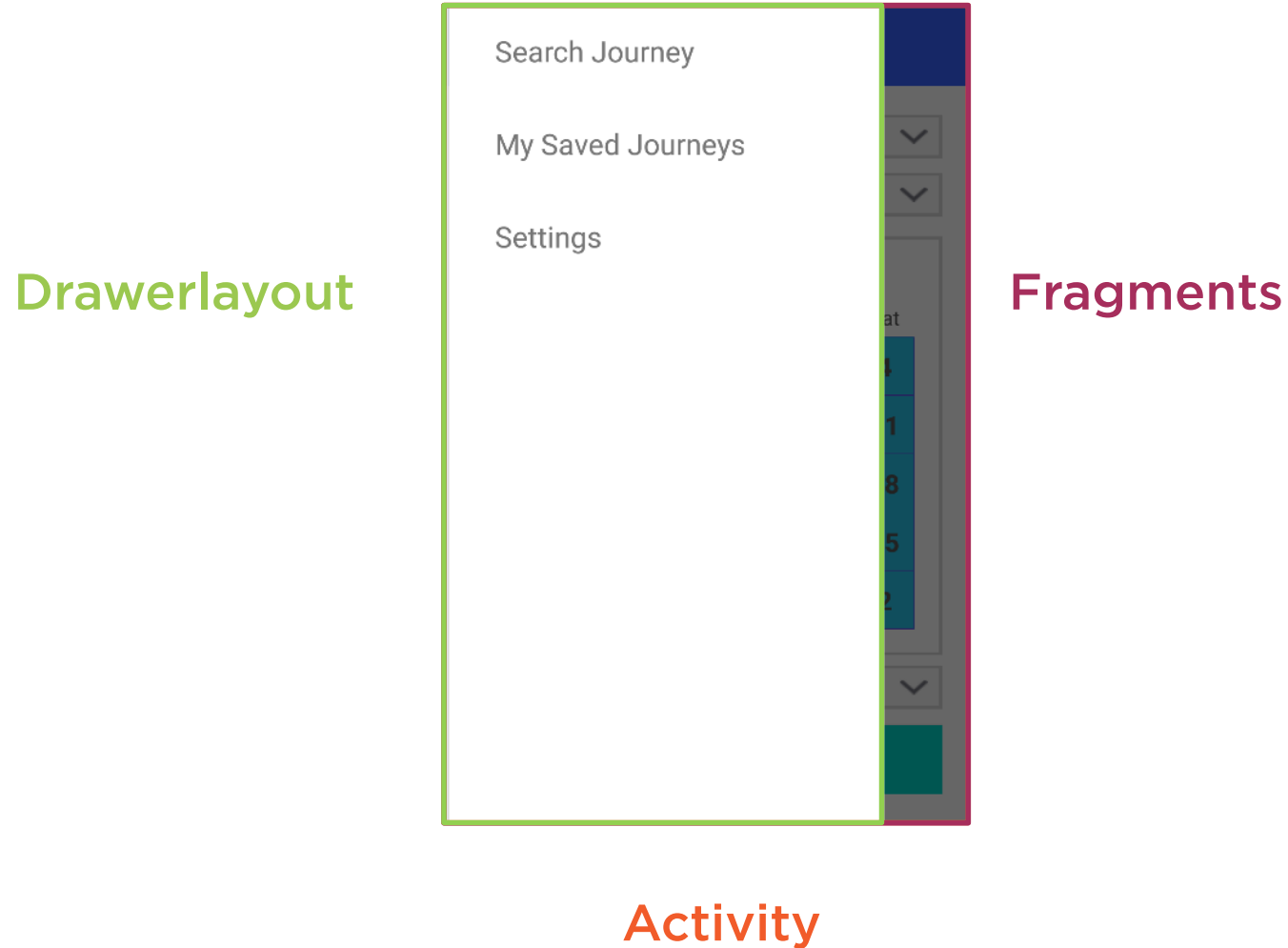
Adding the splash screen



Creating a Single Object View



General Application Structure



Detail Fragment

```
[MvxFragment(typeof(MainViewModel), Resource.Id.content_frame, true)]
[Register("mytrains.droid.views.JourneyDetailsFragment")]
public class JourneyDetailsFragment: MvxFragment<JourneyDetailViewModel>
{
    public override View OnCreateView
    (LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState)
    {
        base.OnCreateView(inflater, container, savedInstanceState);
        return this.BindingInflate(Resource.Layout.JourneyDetailsView, null);
    }
}
```



Some More Details on Data Binding in Android



```
<TextView  
    ...  
    local:MvxBind="Text CityName" />
```

Basic Binding in Android XML



```
<TextView  
    ...  
    local:MvxBind="Text SelectedJourney.FromCity.CityName" />
```

Basic Binding in Android XML



```
<TextView  
    local:MvxBind="Text DepartureTime,  
    Converter=DateTimeToTime" />
```

Binding with Converter




```
<TextView  
    local:MvxBind="Text DepartureTime,  
        Converter=DateTimeToTime, FallbackValue='NA' " />
```

Binding with FallbackValue



```
<EditText  
    android:id="@+id/NumberOfTicketsEditText"  
    local:MvxBind="Text AmountTickets, Mode=TwoWay" />
```

Binding with Mode



```
<Button  
    android:id="@+id/CloseButton"  
    local:MvxBind="Click CloseCommand" />
```

Binding to a Command



Demo



Creating a single object view



Creating a List View



```
<Mvx.MvxListView  
    android:id="@+id/searchresults_list"  
    local:MvxItemTemplate="@layout/item_journey_search_result"  
    local:MvxBind="ItemsSource Journeys;  
        ItemClick ShowJourneyDetailsCommand" />
```

Binding to a List



Demo



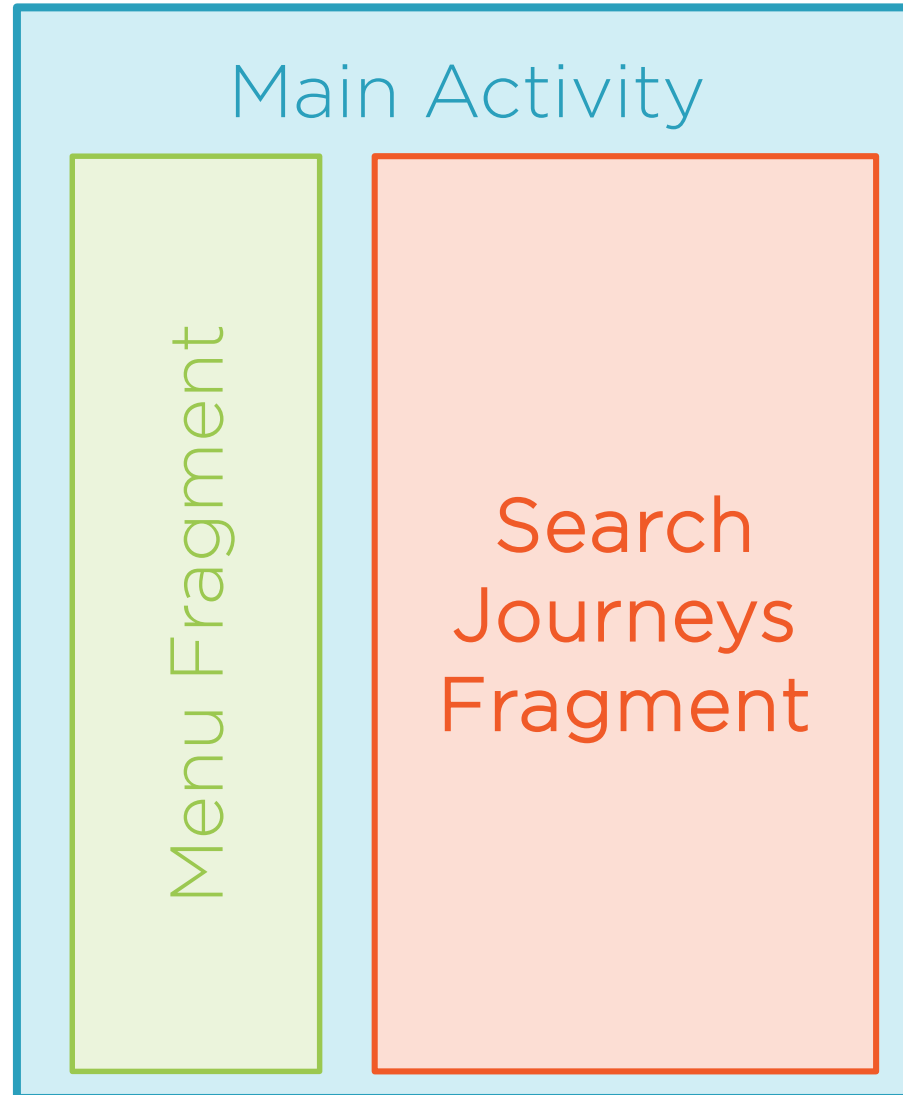
Creating a list view



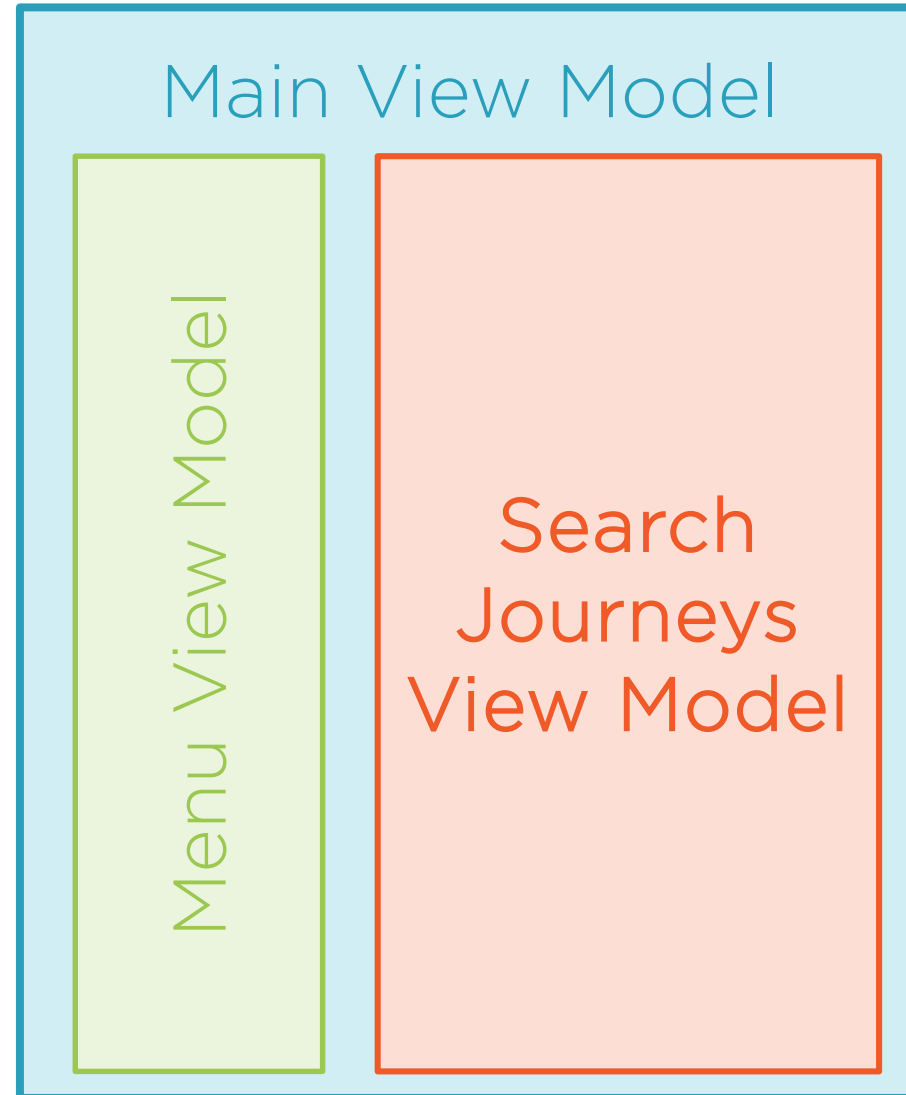
Adding Navigation with the DrawerLayout



In Android



The Menu Creation



Demo



Looking at the MainActivity

Adding navigation with the
DrawerLayout



Summary



Views are bound to view models

Data binding features in XML make creating data-bound interfaces simple

MvvmCross helps us a lot here!

