Adding the iOS Application

Gill Cleeren
ARCHITECT

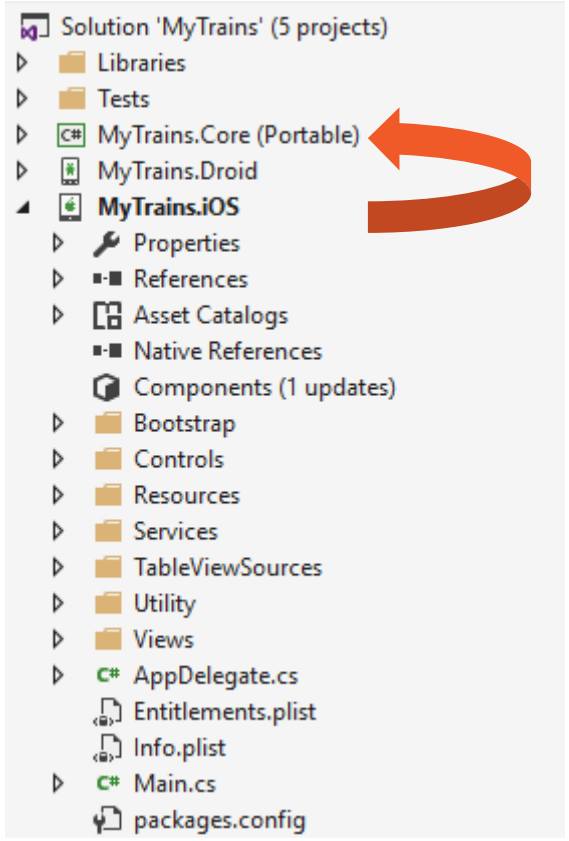
@gillcleeren www.snowball.be

Agenda

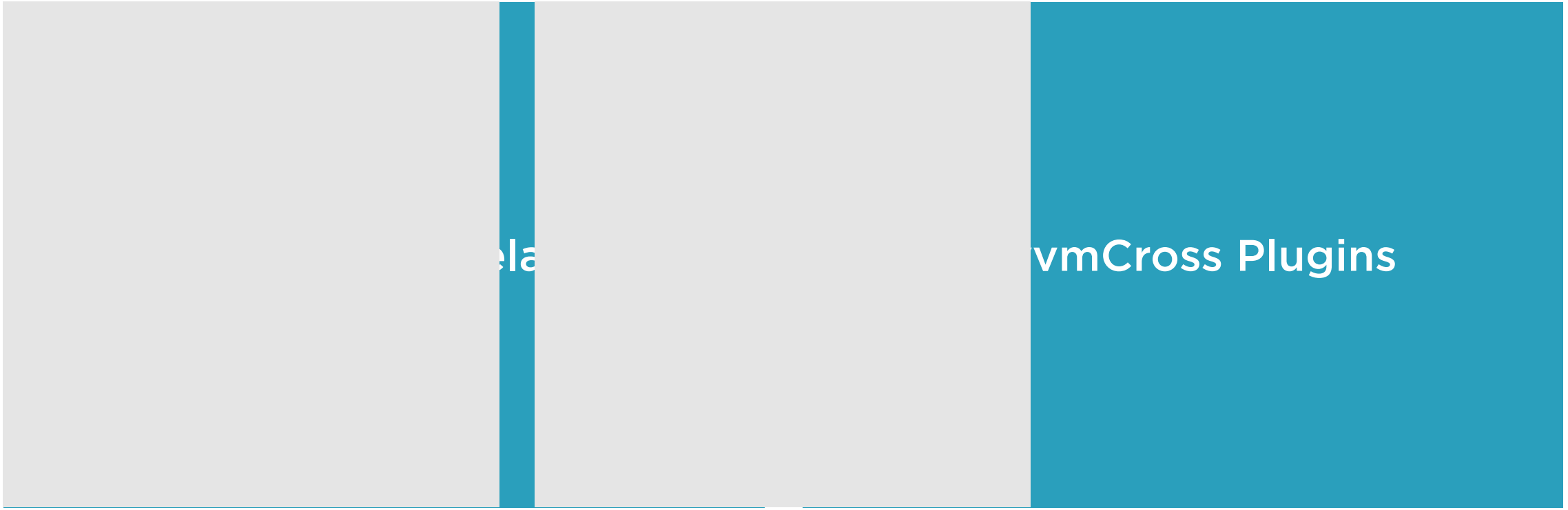
- Setting Up the iOS Project
- Creating a Single Object View
- Creating a Table View
- Adding Navigation Using Tabs

Setting up the iOS Project

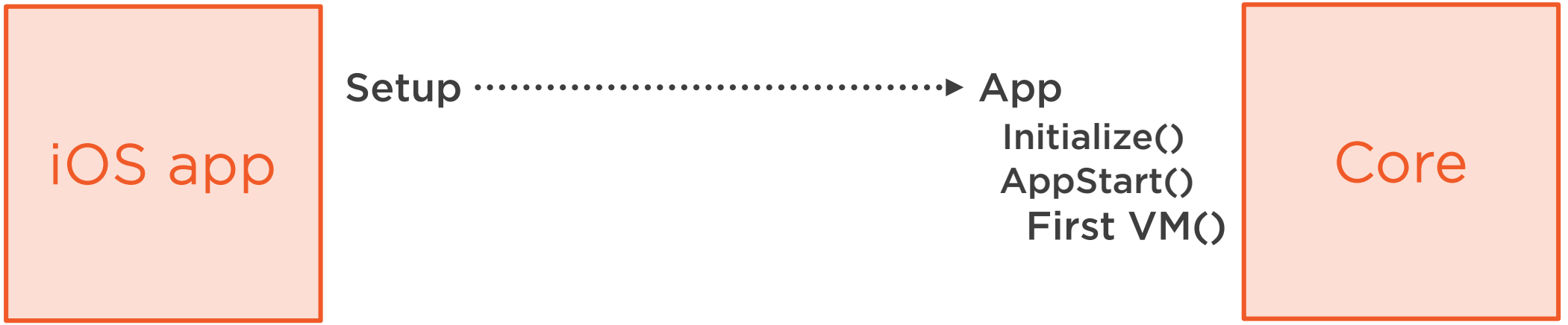
The iOS Project



Adding the Required Packages



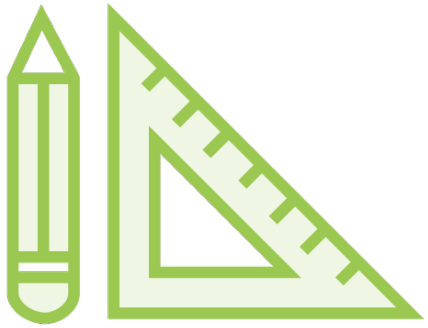
Application Startup



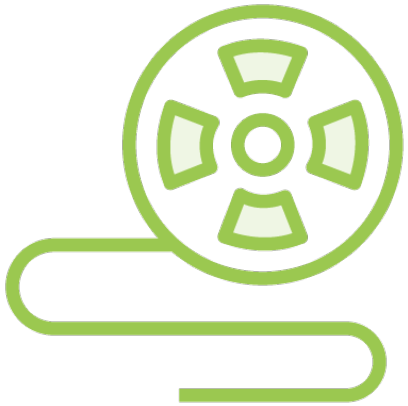
Setup

```
public class Setup: MvxIosSetup
{
    public Setup(MvxApplicationDelegate applicationDelegate, UIWindow window)
        : base(applicationDelegate, window)
    {
        _applicationDelegate = applicationDelegate;
        _window = window;
    }

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

    protected override void InitializeIoC()
    {
        base.InitializeIoC();
        Mvx.RegisterSingleton<IDialogService>(() => new DialogService());
    }
}
```

Choosing Your UI Strategy



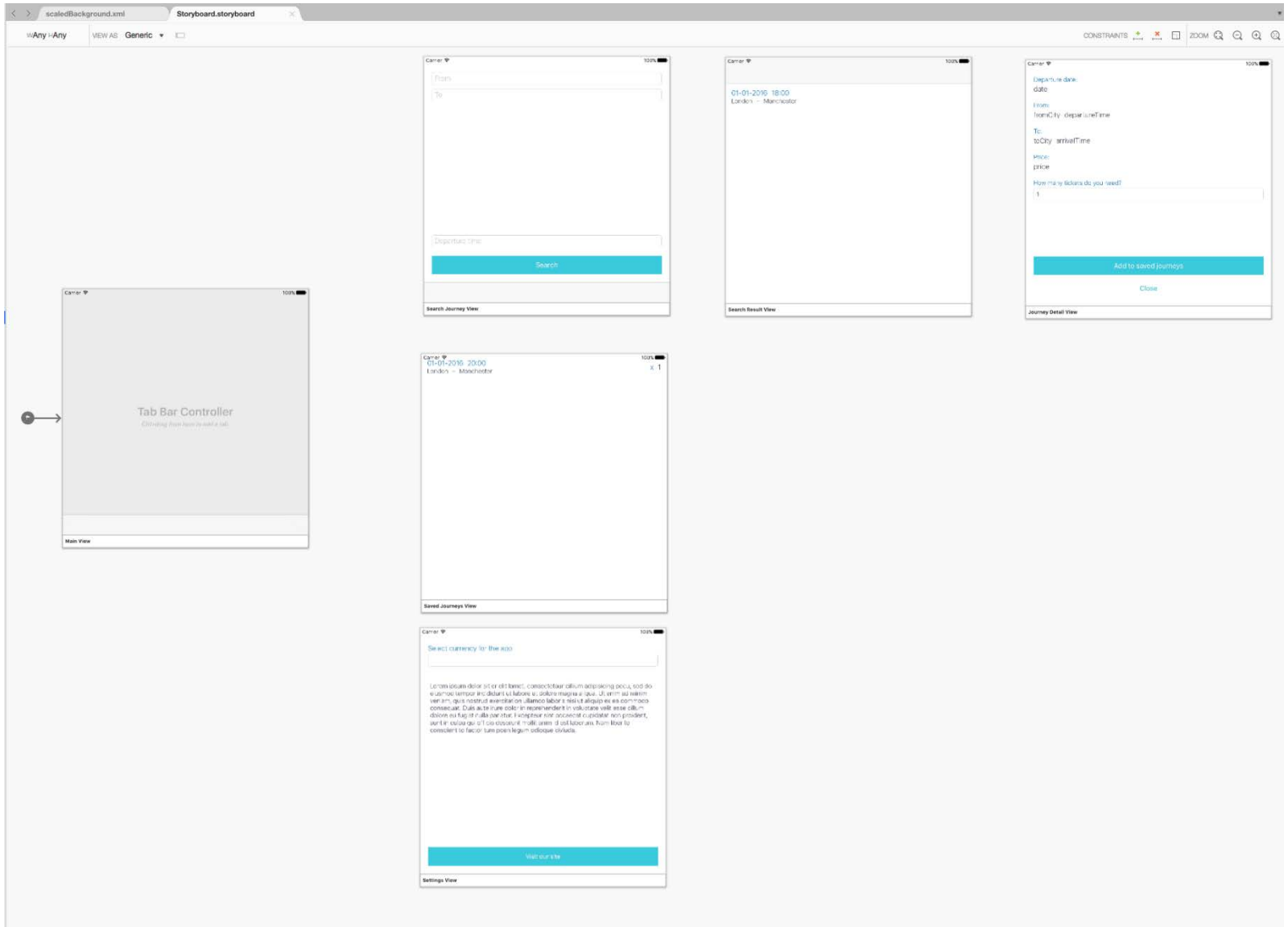
XIB



Storyboard

Code

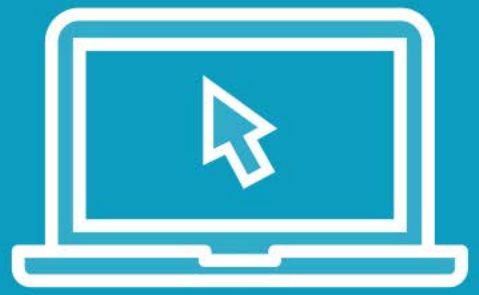
The Application Storyboard



```
protected override IMvxIosViewsContainer
CreateIosViewsContainer()
{
    return new StoryBoardContainer();
}
```

Working with Storyboards

Demo



Setting up the iOS project

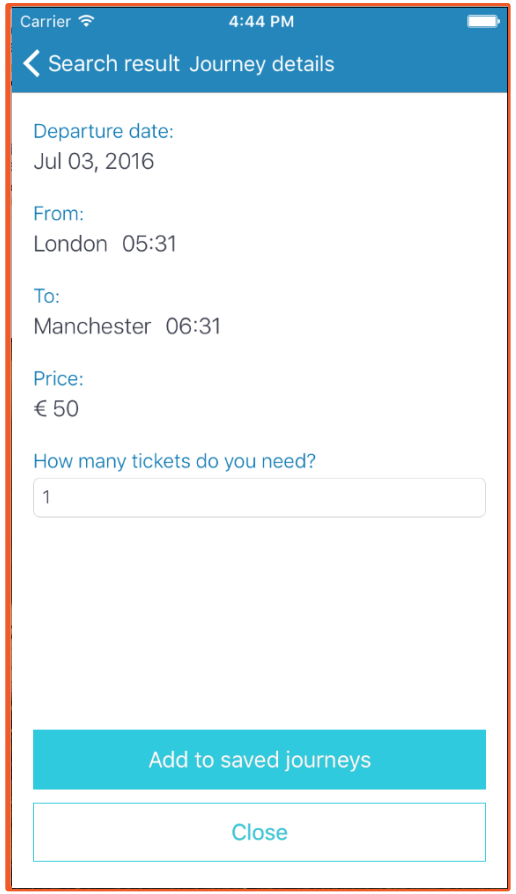
Looking at the Setup class and related

The Storyboard for the application

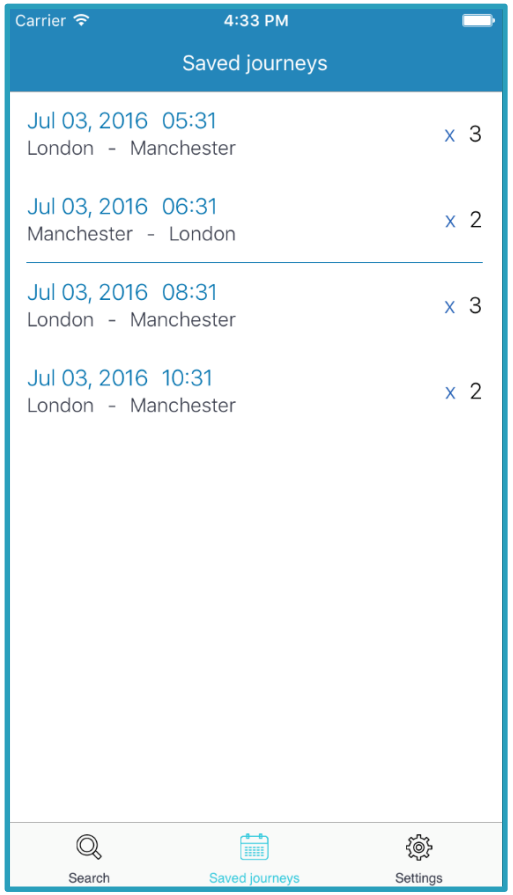
Creating a Single Object View

General Application Structure

Main View Controller (Tab bar)



Search Journey View Controller



Saved Journeys View Controller

Settings View Controller

View Controller

```
public partial class JourneyDetailView : BaseView
{

    protected JourneyDetailViewModel JourneyDetailViewModel
        => ViewModel as JourneyDetailViewModel;

    public JourneyDetailView(IntPtr handle) : base(handle)
    {
    }

    protected override void CreateBindings()
    {
    }

}
```

A Little Sidenote: Data Binding in iOS

```
var set =
    this.CreateBindingSet<JourneyDetailView,
        JourneyDetailViewModel>();
```

Setting up the Binding

```
set.Bind(FromCityLabel)
   .To(vm => vm.SelectedJourney.FromCity);
```

Basic Binding

```
set.Bind(FromCityLabel)
   .For(label => label.Text)
   .To(vm => vm.SelectedJourney.FromCity);
```

Specifying the Target Property

```
set.Bind(DepartureTimeLabel)
    .To(vm => vm.SelectedJourney.DepartureTime)
    .WithConversion(new DateTimeToTimeConverter());
```

Binding with Converter

```
set.Bind(fromCityTextField)
    .To(vm => vm.SelectedFromCity).OneWay();
```

Binding with Mode

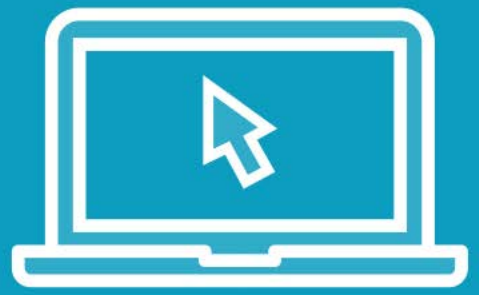
```
set.Bind(fromCityTextField)
    .To(vm => vm.SelectedFromCity).OneWay()
    .FallbackValue("N/A");
```

Binding with FallbackValue

```
set.Bind(AddToSavedJourneysButton)
    .To(vm => vm.AddToSavedJourneysCommand);
```

Binding to a Command

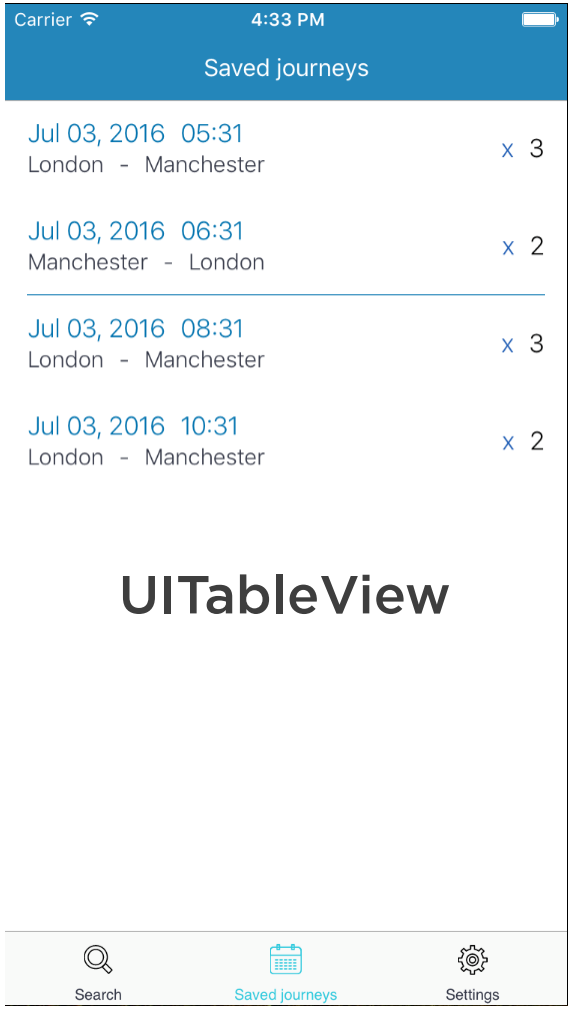
Demo



Creating a Single Object View

Creating a Table View

Building Blocks



UITableView

Cell

TableViewSource

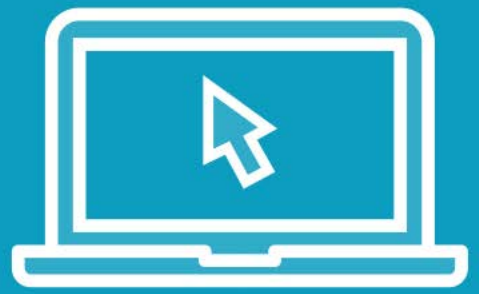
```
public override void ViewDidLoad()
{
    _searchResultsTableViewSource = new
        SearchResultsTableViewSource(searchResultsTableView);

    searchResultsTableView.Source =
        _searchResultsTableViewSource;
}
```

Linking the TableView and Its Source

```
public class SavedJourneysTableViewSource: MvxTableViewSource
{

    public SavedJourneysTableViewSource(UITableView tableView)
        : base(tableView)
    {
    }

}
```

The MvxTableViewSource

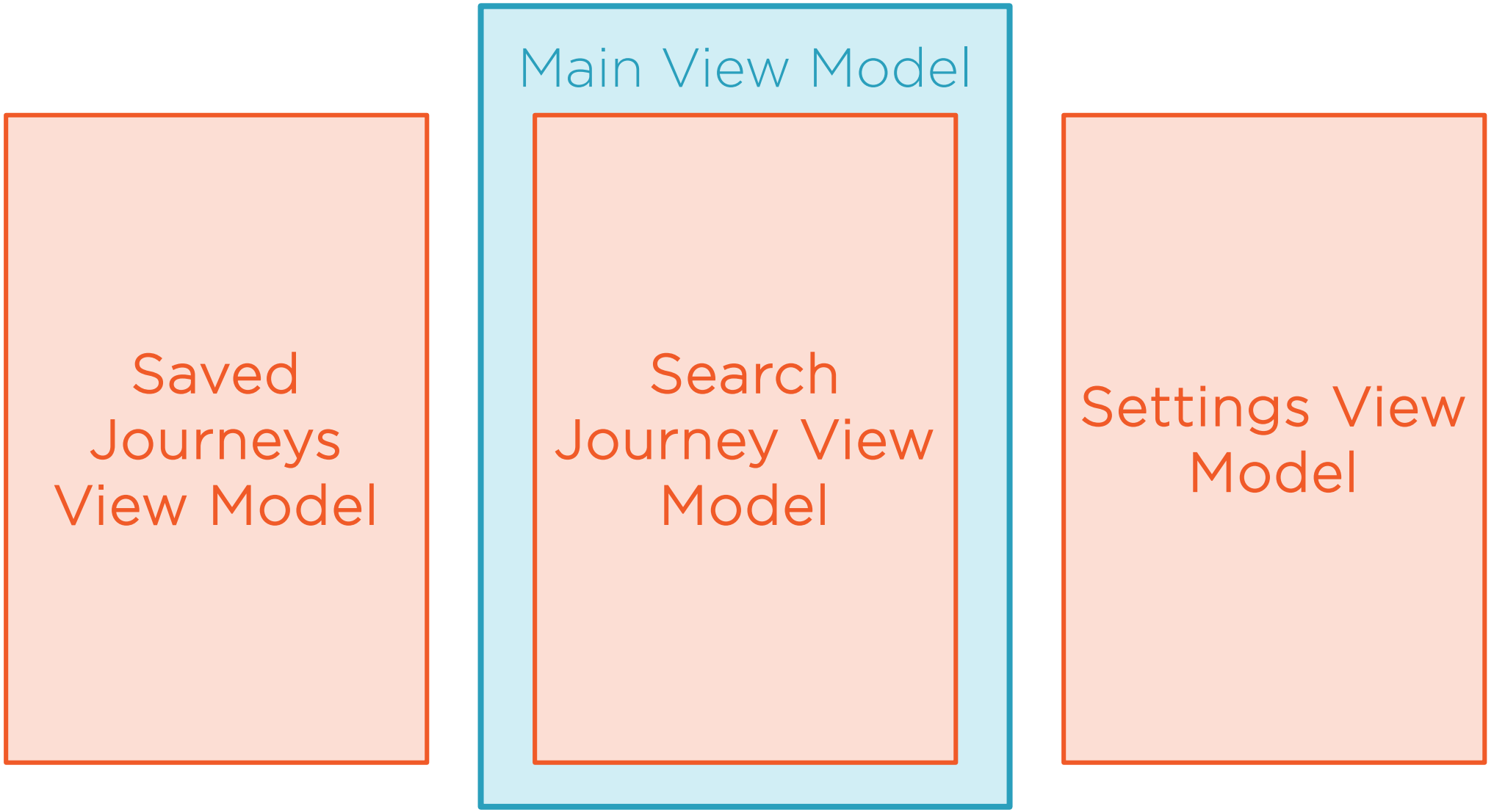
Demo



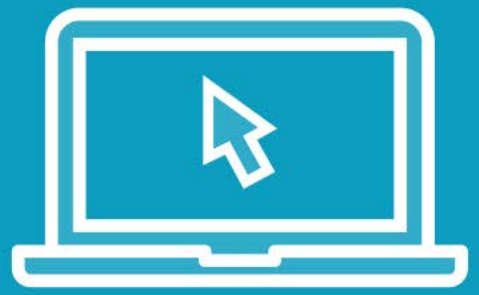
Creating a Table View

Adding Navigation Using Tabs

Tab Navigation in iOS



Demo



Adding Navigation Using Tabs

Summary

iOS View controllers are bound to a View Model

Fluent API for data binding