View-Based Navigation

Brian Lagunas www.pluralsight.com



Outline

- Basic Region Navigation
- View and ViewModel Participation
- Passing Parameters
- Navigating to Existing Views
- Confirming or Canceling Navigation
- Navigation Journal



Basic Region Navigation

- View replaces view
- INavigateAsync.RequestNavigate



RequestNavigate

Region

```
IRegion region = ...;
region.RequestNavigate(new Uri("MyView", UriKind.Relative));
```

RegionManager



Basic Region Navigation

- View replaces view
- INavigateAsync.RequestNavigate
- Based on URIs
- Type must register as Object



Register Types as Object

Standard registration

```
Container.RegisterType<HomeView>("HomeView");
Container.RegisterType<IHomeView, HomeView>("HomeView");
```

Navigation registration

```
Container.RegisterType<object, HomeView>("HomeView");
Container.RegisterType(typeof(object), typeof(HomeView), "HomeView");
```



Basic Region Navigation

- View replaces view
- INavigateAsync.RequestNavigate
- Based on URIs
- Type must register as Object
- View or ViewModel first



Basic Region Navigation – cont.

Navigation Callback



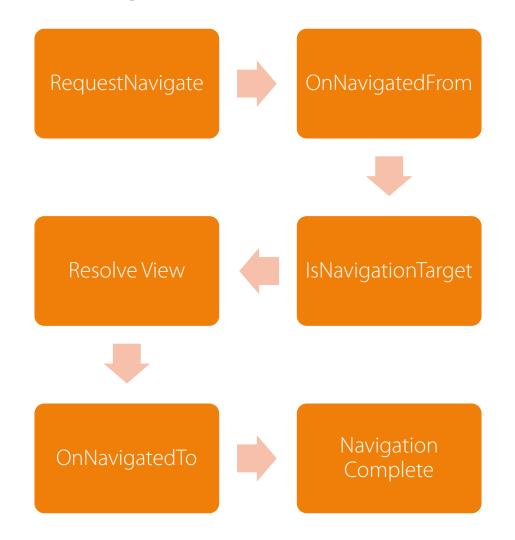
View and ViewModel Participation

INavigationAware

```
public interface INavigationAware
{
    bool IsNavigationTarget(NavigationContext navigationContext);
    void OnNavigatedFrom(NavigationContext navigationContext);
    void OnNavigatedTo(NavigationContext navigationContext);
}
```



INavigationAware Process





View and ViewModel Participation

INavigationAware

```
public interface INavigationAware
{
    bool IsNavigationTarget(NavigationContext navigationContext);
    void OnNavigatedFrom(NavigationContext navigationContext);
    void OnNavigatedTo(NavigationContext navigationContext);
}
```

IRegionMemberLifetime

```
public interface IRegionMemberLifetime
{
    bool KeepAlive { get; }
}
```



Passing Parameters

- Append to navigation URI
- UriQuery
- Accessed from INavigationAware methods
- NavigationContext
 - NavigationService
 - URI
 - Parameters



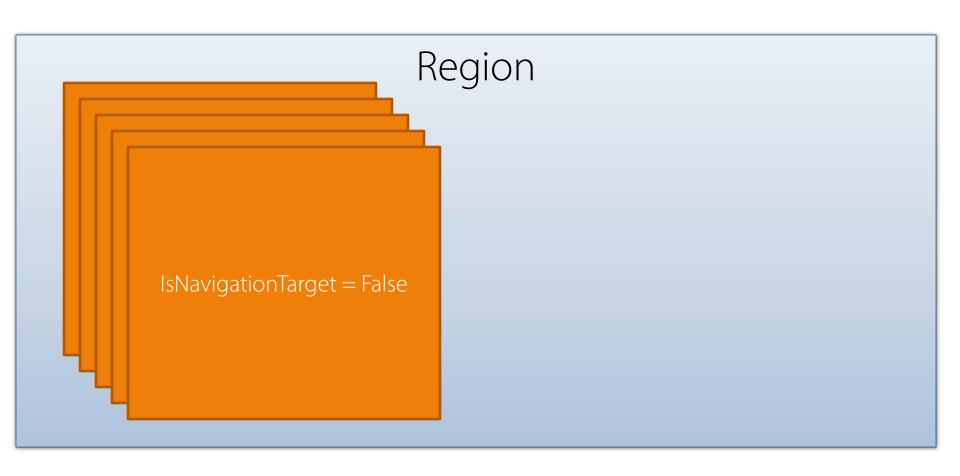
Navigating to Existing Views

- INavigationAware.lsNavigationTarget
- Parameters

```
public bool IsNavigationTarget(NavigationContext navigationContext)
{
    string id = navigationContext.Parameters["Id"];
    return this.currentCustomer.Id.Equals(id);
}
```



Navigating to Existing Views



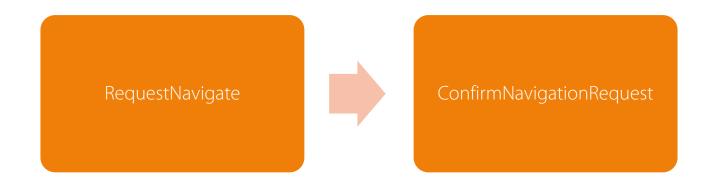


Confirming or Canceling Navigation

IConfirmNavigationRequest



IConfirmNavigationRequest Process



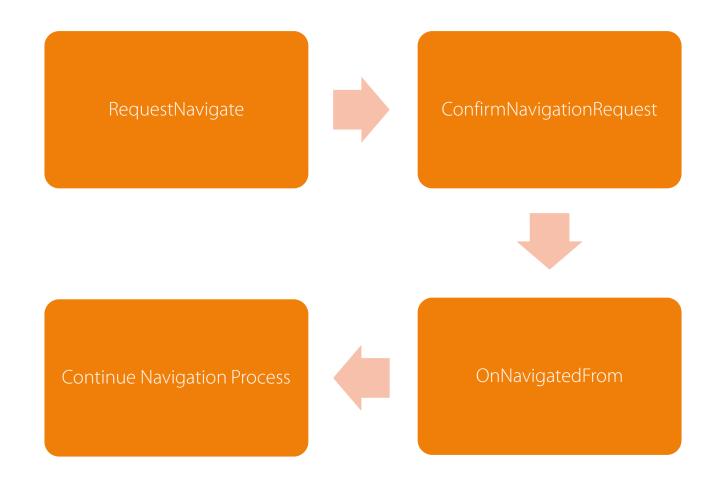


IConfirmNavigationRequest Process

```
public void ConfirmNavigationRequest(NavigationContext navigationContext,
                                     Action<bool> continuationCallback)
{
     //by default we allow navigation
     bool result = true;
     //prompt user for desired action
     MessageBoxResult messageResult = MessageBox.Show("Save", "Save Object?",
                                                       MessageBoxButton.YesNoCancel);
     if (messageResult == MessageBoxResult.Yes)
          CurrentCustomer.Save(); //perform save
     else if (messageResult == MessageBoxResult.Cancel)
          result = false; //don't allow navigation
     continuationCallback(result);
```



IConfirmNavigationRequest Process





Navigation Journal

- Stack-Based
- Works Only with Region Navigation Services
- Accessed from NavigationService.Journal property
- NavigationService accessed from NavigationContext
- GoBack(), CanGoBack()
- GoForward(), CanGoFoward()



Summary

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- View and ViewModel Participation
- Passing Parameters
- Navigating to Existing Views
- Confirming or Canceling Navigation
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