Race Day

Generated by Doxygen 1.9.7

1 Namespace Index 1

1.1 Package List . . . 1

2 Hierarchical Index 3

2.1 Class Hierarchy . . . 3

3 Class Index 7

3.1 Class List . . . 7

4 Namespace Documentation 11

4.1 RaceDay Namespace Reference . . . 11

4.2 RaceDay.Domain Namespace Reference . . . 11

4.3 RaceDay.Domain.DTOs Namespace Reference . . . 11

4.4 RaceDay.Domain.Entities Namespace Reference . . . 11

4.5 RaceDay.Domain.Exceptions Namespace Reference . . . 11

4.6 RaceDay.Domain.Interfaces Namespace Reference . . . 12

4.7 RaceDay.SqlLite Namespace Reference . . . 12

4.8 RaceDay.SqlLite.Commands Namespace Reference . . . 12

4.9 RaceDay.SqlLite.Infrastructure Namespace Reference . . . 12

4.10 RaceDay.SqlLite.Queries Namespace Reference . . . 13

4.11 RaceDay.WpfUi Namespace Reference . . . 13

4.12 RaceDay.WpfUi.Controls Namespace Reference . . . 13

4.13 RaceDay.WpfUi.Converters Namespace Reference . . . 13

4.14 RaceDay.WpfUi.Extensions Namespace Reference . . . 13

4.15 RaceDay.WpfUi.Infrastructure Namespace Reference . . . 14

4.16 RaceDay.WpfUi.Interfaces Namespace Reference . . . 14

4.17 RaceDay.WpfUi.Models Namespace Reference . . . 14

4.18 RaceDay.WpfUi.Pages Namespace Reference . . . 14

4.19 RaceDay.WpfUi.Services Namespace Reference . . . 15

4.20 RaceDay.WpfUi.StartUp Namespace Reference . . . 15

4.21 RaceDay.WpfUi.ValidationRules Namespace Reference . . . 15

4.22 RaceDay.WpfUi.ViewModels Namespace Reference . . . 15

4.23 RaceDay.WpfUi.Views Namespace Reference . . . 16

4.24 XamlGeneratedNamespace Namespace Reference . . . 16

5 Class Documentation 17

5.1 RaceDay.WpfUi.Views.AddRacerView Class Reference . . . 17

5.1.1 Detailed Description . . . 18

5.2 RaceDay.WpfUi.ViewModels.AddRacerViewModel Class Reference . . . 18

5.2.1 Detailed Description . . . 21

5.2.2 Constructor & Destructor Documentation . . . 21

5.2.2.1 AddRacerViewModel() . . . 21

5.2.3 Member Function Documentation . . . 21

5.2.3.1 OnNavigatedTo() . . . 21

5.3 RaceDay.WpfUi.App Class Reference . . . 22
5.3.1 Detailed Description . . . 23
5.3.2 Member Function Documentation . . . 23
5.3.2.1 Main() . . . 23
5.4 RaceDay.WpfUi.Controls.AppHeader Class Reference . . . 23
5.4.1 Detailed Description . . . 24
5.5 RaceDay.WpfUi.StartUp.Bootstrapper Class Reference . . . 25
5.5.1 Detailed Description . . . 25
5.5.2 Member Function Documentation . . . 25
5.5.2.1 Bootstrap() . . . 25
5.6 RaceDay.WpfUi.Controls.CardDataField Class Reference . . . 26
5.6.1 Detailed Description . . . 27
5.6.2 Member Data Documentation . . . 27
5.6.2.1 HeaderProperty . . . 27
5.6.2.2 ImageSourceProperty . . . 27
5.6.2.3 ValueProperty . . . 28
5.7 RaceDay.SqlLite.Infrastructure.CommandQueryBase Class Reference . . . 28
5.7.1 Detailed Description . . . 30
5.7.2 Constructor & Destructor Documentation . . . 30
5.7.2.1 CommandQueryBase() . . . 30
5.8 RaceDay.SqlLite.Commands.CreateRaceCommand Class Reference . . . 30
5.8.1 Detailed Description . . . 32
5.9 RaceDay.SqlLite.Commands.CreateRaceDayCommand Class Reference . . . 32
5.9.1 Detailed Description . . . 33
5.9.2 Member Function Documentation . . . 33
5.9.2.1 Execute() . . . 33
5.10 RaceDay.WpfUi.Views.CreateRaceDayView Class Reference . . . 34
5.10.1 Detailed Description . . . 35
5.11 RaceDay.SqlLite.Commands.CreateRaceRacerCommand Class Reference . . . 35
5.11.1 Detailed Description . . . 37
5.11.2 Member Function Documentation . . . 37
5.11.2.1 Execute() . . . 37
5.12 RaceDay.SqlLite.Commands.CreateRacerCommand Class Reference . . . 38
5.12.1 Detailed Description . . . 39
5.12.2 Member Function Documentation . . . 39
5.12.2.1 Execute() . . . 39
5.13 RaceDay.SqlLite.Commands.CreateRacerLapCommand Class Reference . . . 40
5.13.1 Detailed Description . . . 42
5.13.2 Member Function Documentation . . . 42
5.13.2.1 Execute() . . . 42
5.14 RaceDay.Domain.Exceptions.CreateRecordException Class Reference . . . 42
5.14.1 Detailed Description . . . 43

5.14.2 Constructor & Destructor Documentation . . . 43
5.14.2.1 CreateRecordException() [1/2] . . . 43
5.14.2.2 CreateRecordException() [2/2] . . . 43
5.15 RaceDay.WpfUi.Views.DatePickerView Class Reference . . . 44
5.15.1 Detailed Description . . . 45
5.16 RaceDay.SqlLite.Queries.DaySummaryQuery Class Reference . . . 45
5.16.1 Detailed Description . . . 46
5.16.2 Member Function Documentation . . . 46
5.16.2.1 GetAll() . . . 46
5.16.2.2 GetById() . . . 46
5.17 RaceDay.WpfUi.Views.DaySummaryView Class Reference . . . 47
5.17.1 Detailed Description . . . 48
5.18 RaceDay.WpfUi.ViewModels.DaySummaryViewModel Class Reference . . . 48
5.18.1 Detailed Description . . . 50
5.18.2 Constructor & Destructor Documentation . . . 50
5.18.2.1 DaySummaryViewModel() . . . 50
5.18.3 Member Function Documentation . . . 50
5.18.3.1 LoadData() . . . 50
5.19 RaceDay.SqlLite.Commands.DeleteRaceLapCommand Class Reference . . . 51
5.19.1 Detailed Description . . . 52
5.19.2 Member Function Documentation . . . 52
5.19.2.1 Execute() . . . 52
5.20 RaceDay.SqlLite.Commands.DeleteRaceRacerCommand Class Reference . . . 53
5.20.1 Detailed Description . . . 54
5.20.2 Member Function Documentation . . . 54
5.20.2.1 Execute() . . . 54
5.21 RaceDay.WpfUi.Services.DialogService Class Reference . . . 55
5.21.1 Detailed Description . . . 56
5.21.2 Constructor & Destructor Documentation . . . 56
5.21.2.1 DialogService() . . . 56
5.21.3 Member Function Documentation . . . 56
5.21.3.1 DisplayDialogAsync< TViewModel, TModel >() . . . 56
5.21.3.2 DisplayDialogAsync< TViewModel, TModel, TResult >() . . . 57
5.22 RaceDay.WpfUi.Infrastructure.DialogViewModelBase< TModel, TResult > Class Template Reference . . . 58
5.22.1 Detailed Description . . . 60
5.22.2 Property Documentation . . . 60
5.22.2.1 Model . . . 60
5.23 RaceDay.WpfUi.Converters.EqualityToVisibilityConverter Class Reference . . . 61
5.23.1 Detailed Description . . . 61
5.24 RaceDay.WpfUi.ValidationRules.FloatValidationRule Class Reference . . . 62
5.24.1 Detailed Description . . . 63
5.25 XamlGeneratedNamespace.GeneratedInternalTypeHelper Class Reference . . . 63

5.25.1 Detailed Description . . . 64
5.26 RaceDay.WpfUi.Pages.HomePage Class Reference . . . 64
5.26.1 Detailed Description . . . 65
5.27 RaceDay.WpfUi.Views.HomeView Class Reference . . . 66
5.27.1 Detailed Description . . . 66
5.28 RaceDay.WpfUi.ViewModels.HomeViewModel Class Reference . . . 67
5.28.1 Detailed Description . . . 68
5.28.2 Constructor & Destructor Documentation . . . 68
5.28.2.1 HomeViewModel() . . . 68
5.28.3 Member Function Documentation . . . 69
5.28.3.1 OnNavigatedTo() . . . 69
5.29 RaceDay.Domain.Interfaces.ICreateRaceCommand Interface Reference . . . 70
5.29.1 Detailed Description . . . 71
5.30 RaceDay.Domain.Interfaces.ICreateRaceDayCommand Interface Reference . . . 71
5.30.1 Detailed Description . . . 71
5.30.2 Member Function Documentation . . . 71
5.30.2.1 Execute() . . . 71
5.31 RaceDay.Domain.Interfaces.ICreateRaceRacerCommand Interface Reference . . . 72
5.31.1 Detailed Description . . . 73
5.32 RaceDay.Domain.Interfaces.ICreateRacerCommand Interface Reference . . . 73
5.32.1 Detailed Description . . . 74
5.33 RaceDay.Domain.Interfaces.ICreateRacerLapCommand Interface Reference . . . 74
5.33.1 Detailed Description . . . 76
5.34 RaceDay.Domain.Interfaces.IDaySummaryQuery Interface Reference . . . 76
5.34.1 Detailed Description . . . 76
5.34.2 Member Function Documentation . . . 76
5.34.2.1 GetAll() . . . 76
5.34.2.2 GetById() . . . 77
5.35 RaceDay.Domain.Interfaces.IDeleteRaceLapCommand Interface Reference . . . 77
5.35.1 Detailed Description . . . 78
5.35.2 Member Function Documentation . . . 78
5.35.2.1 Execute() . . . 78
5.36 RaceDay.Domain.Interfaces.IDeleteRaceRacerCommand Interface Reference . . . 78
5.36.1 Detailed Description . . . 79
5.36.2 Member Function Documentation . . . 79
5.36.2.1 Execute() . . . 79
5.37 RaceDay.Domain.Interfaces.IExchangeDataCommand< T > Interface Template Reference . . . 79
5.37.1 Detailed Description . . . 80
5.37.2 Member Function Documentation . . . 80
5.37.2.1 Execute() . . . 80
5.38 RaceDay.WpfUi.Interfaces.INavigableViewModel Interface Reference . . . 80
5.38.1 Detailed Description . . . 81

5.38.2 Member Function Documentation . . . 81
5.38.2.1 OnNavigatedTo() . . . 81
5.39 RaceDay.WpfUi.Extensions.Int32Extension Class Reference . . . 82
5.39.1 Detailed Description . . . 83
5.39.2 Constructor & Destructor Documentation . . . 83
5.39.2.1 Int32Extension() . . . 83
5.39.3 Member Function Documentation . . . 83
5.39.3.1 ProvideValue() . . . 83
5.40 RaceDay.WpfUi.Converters.InverseBooleanConverter Class Reference . . . 83
5.40.1 Detailed Description . . . 84
5.41 RaceDay.WpfUi.Converters.InverseEqualityToVisibilityConverter Class Reference . . . 85
5.41.1 Detailed Description . . . 85
5.42 RaceDay.Domain.Interfaces.IRacerLapQuery Interface Reference . . . 86
5.42.1 Detailed Description . . . 86
5.42.2 Member Function Documentation . . . 86
5.42.2.1 GetLapsForRacerInRace() . . . 86
5.43 RaceDay.Domain.Interfaces.IRacersQuery Interface Reference . . . 87
5.43.1 Detailed Description . . . 87
5.43.2 Member Function Documentation . . . 87
5.43.2.1 GetAll() . . . 87
5.43.2.2 GetRacersForRace() . . . 87
5.44 RaceDay.Domain.Interfaces.IRaceSummaryQuery Interface Reference . . . 88
5.44.1 Detailed Description . . . 88
5.44.2 Member Function Documentation . . . 88
5.44.2.1 GetAll() . . . 88
5.44.2.2 GetById() . . . 89
5.45 RaceDay.WpfUi.ViewModels.MainViewModel Class Reference . . . 89
5.45.1 Detailed Description . . . 91
5.45.2 Constructor & Destructor Documentation . . . 91
5.45.2.1 MainViewModel() . . . 91
5.46 RaceDay.WpfUi.MainWindow Class Reference . . . 91
5.46.1 Detailed Description . . . 92
5.47 RaceDay.WpfUi.Services.NavigationService Class Reference . . . 92
5.47.1 Detailed Description . . . 94
5.47.2 Constructor & Destructor Documentation . . . 94
5.47.2.1 NavigationService() . . . 94
5.47.3 Member Function Documentation . . . 94
5.47.3.1 NavigateTo() . . . 94
5.47.3.2 NavigateTo< T >() . . . 95
5.48 RaceDay.WpfUi.Models.NewRaceDayModel Class Reference . . . 95
5.48.1 Detailed Description . . . 98
5.49 RaceDay.WpfUi.Views.NewRaceDayView Class Reference . . . 98

5.49.1 Detailed Description . . . 99
5.50 RaceDay.WpfUi.ViewModels.NewRaceDayViewModel Class Reference . . . 99
5.50.1 Detailed Description . . . 101
5.50.2 Constructor & Destructor Documentation . . . 101
5.50.2.1 NewRaceDayViewModel() . . . 101
5.51 RaceDay.WpfUi.Models.NewRaceModel Class Reference . . . 102
5.51.1 Detailed Description . . . 103
5.52 RaceDay.WpfUi.Views.NewRaceView Class Reference . . . 103
5.52.1 Detailed Description . . . 104
5.53 RaceDay.WpfUi.ViewModels.NewRaceViewModel Class Reference . . . 104
5.53.1 Detailed Description . . . 107
5.53.2 Constructor & Destructor Documentation . . . 107
5.53.2.1 NewRaceViewModel() . . . 107
5.54 RaceDay.WpfUi.Infrastructure.ObservableObject Class Reference . . . 107
5.54.1 Detailed Description . . . 109
5.54.2 Member Function Documentation . . . 109
5.54.2.1 OnPropertyChanged() . . . 109
5.54.2.2 SetField< T >() . . . 109
5.55 RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation Class Reference . . . 110
5.55.1 Detailed Description . . . 112
5.55.2 Member Function Documentation . . . 112
5.55.2.1 SetField< T >() . . . 112
5.56 RaceDay.WpfUi.Views.RaceDayRacesView Class Reference . . . 113
5.56.1 Detailed Description . . . 113
5.57 RaceDay.WpfUi.Views.RaceDaySummaryView Class Reference . . . 114
5.57.1 Detailed Description . . . 114
5.58 RaceDay.WpfUi.Models.RaceModel Class Reference . . . 115
5.58.1 Detailed Description . . . 116
5.59 RaceDay.WpfUi.Models.RacerLapModel Class Reference . . . 117
5.59.1 Detailed Description . . . 118
5.60 RaceDay.SqlLite.Queries.RacerLapQuery Class Reference . . . 118
5.60.1 Detailed Description . . . 119
5.60.2 Member Function Documentation . . . 119
5.60.2.1 GetLapsForRacerInRace() . . . 119
5.61 RaceDay.WpfUi.Models.RacerModel Class Reference . . . 120
5.61.1 Detailed Description . . . 122
5.62 RaceDay.SqlLite.Queries.RacersQuery Class Reference . . . 123
5.62.1 Detailed Description . . . 124
5.62.2 Member Function Documentation . . . 124
5.62.2.1 GetAll() . . . 124
5.62.2.2 GetRacersForRace() . . . 124
5.63 RaceDay.WpfUi.Views.RacerView Class Reference . . . 125

5.63.1 Detailed Description . . . 126
5.64 RaceDay.WpfUi.ViewModels.RacerViewModel Class Reference . . . 126
5.64.1 Detailed Description . . . 128
5.64.2 Constructor & Destructor Documentation . . . 128
5.64.2.1 RacerViewModel() . . . 128
5.65 RaceDay.WpfUi.Views.RacesSummaryView Class Reference . . . 129
5.65.1 Detailed Description . . . 130
5.66 RaceDay.WpfUi.ViewModels.RacesSummaryViewModel Class Reference . . . 130
5.66.1 Detailed Description . . . 132
5.66.2 Constructor & Destructor Documentation . . . 132
5.66.2.1 RacesSummaryViewModel() . . . 132
5.66.3 Member Function Documentation . . . 132
5.66.3.1 LoadRaceDayRaces() . . . 132
5.66.3.2 UpdateViewTitle() . . . 133
5.67 RaceDay.WpfUi.Models.RaceSummaryModel Class Reference . . . 133
5.67.1 Detailed Description . . . 134
5.68 RaceDay.SqlLite.Queries.RaceSummaryQuery Class Reference . . . 134
5.68.1 Detailed Description . . . 135
5.68.2 Member Function Documentation . . . 135
5.68.2.1 GetAll() . . . 135
5.68.2.2 GetById() . . . 136
5.69 RaceDay.WpfUi.Views.RaceView Class Reference . . . 137
5.69.1 Detailed Description . . . 137
5.70 RaceDay.WpfUi.ViewModels.RaceViewModel Class Reference . . . 138
5.70.1 Detailed Description . . . 139
5.70.2 Constructor & Destructor Documentation . . . 139
5.70.2.1 RaceViewModel() . . . 139
5.71 RaceDay.Domain.Exceptions.RecordExistException Class Reference . . . 140
5.71.1 Detailed Description . . . 141
5.71.2 Constructor & Destructor Documentation . . . 141
5.71.2.1 RecordExistException() . . . 141
5.72 RaceDay.WpfUi.Infrastructure.RelayCommand Class Reference . . . 141
5.72.1 Detailed Description . . . 142
5.72.2 Constructor & Destructor Documentation . . . 142
5.72.2.1 RelayCommand() . . . 142
5.72.3 Member Function Documentation . . . 143
5.72.3.1 CanExecute() . . . 143
5.72.3.2 Execute() . . . 143
5.73 RaceDay.WpfUi.Converters.RowIndexConverter Class Reference . . . 143
5.73.1 Detailed Description . . . 144
5.74 RaceDay.WpfUi.Infrastructure.ViewModelBase Class Reference . . . 145
5.74.1 Detailed Description . . . 146

Index 147

Chapter 1

Namespace Index

1.1 Package List

Here are the packages with brief descriptions (if available):

RaceDay . . . 11
RaceDay.Domain . . . 11
RaceDay.Domain.DTOs . . . 11
RaceDay.Domain.Entities . . . 11
RaceDay.Domain.Exceptions . . . 11
RaceDay.Domain.Interfaces . . . 12
RaceDay.SqlLite . . . 12
RaceDay.SqlLite.Commands . . . 12
RaceDay.SqlLite.Infrastructure . . . 12
RaceDay.SqlLite.Queries . . . 13
RaceDay.WpfUi . . . 13
RaceDay.WpfUi.Controls . . . 13
RaceDay.WpfUi.Converters . . . 13
RaceDay.WpfUi.Extensions . . . 13
RaceDay.WpfUi.Infrastructure . . . 14
RaceDay.WpfUi.Interfaces . . . 14
RaceDay.WpfUi.Models . . . 14
RaceDay.WpfUi.Pages . . . 14
RaceDay.WpfUi.Services . . . 15
RaceDay.WpfUi.StartUp . . . 15
RaceDay.WpfUi.ValidationRules . . . 15
RaceDay.WpfUi.ViewModels . . . 15
RaceDay.WpfUi.Views . . . 16
XamlGeneratedNamespace . . . 16

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Application
- RaceDay.WpfUi.App . . . 22

System.Windows.Application
- RaceDay.WpfUi.App . . . 22

RaceDay.WpfUi.StartUp.Bootstrapper . . . 25

RaceDay.SqlLite.Infrastructure.CommandQueryBase . . . 28
- RaceDay.SqlLite.Commands.CreateRaceCommand . . . 30
- RaceDay.SqlLite.Commands.CreateRaceDayCommand . . . 32
- RaceDay.SqlLite.Commands.CreateRaceRacerCommand . . . 35
- RaceDay.SqlLite.Commands.CreateRacerCommand . . . 38
- RaceDay.SqlLite.Commands.CreateRacerLapCommand . . . 40
- RaceDay.SqlLite.Commands.DeleteRaceLapCommand . . . 51
- RaceDay.SqlLite.Commands.DeleteRaceRacerCommand . . . 53
- RaceDay.SqlLite.Queries.DaySummaryQuery . . . 45
- RaceDay.SqlLite.Queries.RaceSummaryQuery . . . 134
- RaceDay.SqlLite.Queries.RacerLapQuery . . . 118
- RaceDay.SqlLite.Queries.RacersQuery . . . 123

Control
- RaceDay.WpfUi.Controls.CardDataField . . . 26

DialogViewModelBase
- RaceDay.WpfUi.Infrastructure.DialogViewModelBase< TModel, TResult > . . . 58

Exception
- RaceDay.Domain.Exceptions.CreateRecordException . . . 42
- RaceDay.Domain.Exceptions.RecordExistException . . . 140

ICommand
- RaceDay.WpfUi.Infrastructure.RelayCommand . . . 141

System.Windows.Markup.IComponentConnector
- RaceDay.WpfUi.App . . . 22
- RaceDay.WpfUi.Controls.AppHeader . . . 23
- RaceDay.WpfUi.MainWindow . . . 91
- RaceDay.WpfUi.Pages.HomePage . . . 64
- RaceDay.WpfUi.Views.AddRacerView . . . 17
- RaceDay.WpfUi.Views.CreateRaceDayView . . . 34
- RaceDay.WpfUi.Views.DatePickerView . . . 44
- RaceDay.WpfUi.Views.DaySummaryView . . . 47

RaceDay.WpfUi.Views.HomeView . . . 66
RaceDay.WpfUi.Views.NewRaceDayView . . . 98
RaceDay.WpfUi.Views.NewRaceView . . . 103
RaceDay.WpfUi.Views.RaceDayRacesView . . . 113
RaceDay.WpfUi.Views.RaceDaySummaryView . . . 114
RaceDay.WpfUi.Views.RaceView . . . 137
RaceDay.WpfUi.Views.RacerView . . . 125
RaceDay.WpfUi.Views.RacesSummaryView . . . 129
RaceDay.Domain.Interfaces.ICreateRaceDayCommand . . . 71
RaceDay.SqlLite.Commands.CreateRaceDayCommand . . . 32
RaceDay.Domain.Interfaces.IDaySummaryQuery . . . 76
RaceDay.SqlLite.Queries.DaySummaryQuery . . . 45
RaceDay.Domain.Interfaces.IDeleteRaceLapCommand . . . 77
RaceDay.SqlLite.Commands.DeleteRaceLapCommand . . . 51
RaceDay.Domain.Interfaces.IDeleteRaceRacerCommand . . . 78
RaceDay.SqlLite.Commands.DeleteRaceRacerCommand . . . 53
RaceDay.Domain.Interfaces.IExchangeDataCommand< T > . . . 79
RaceDay.Domain.Interfaces.IExchangeDataCommand< RaceEntity?> . . . 79
RaceDay.Domain.Interfaces.ICreateRaceCommand . . . 70
RaceDay.SqlLite.Commands.CreateRaceCommand . . . 30
RaceDay.Domain.Interfaces.IExchangeDataCommand< RaceLapEntity > . . . 79
RaceDay.Domain.Interfaces.ICreateRacerLapCommand . . . 74
RaceDay.SqlLite.Commands.CreateRacerLapCommand . . . 40
RaceDay.Domain.Interfaces.IExchangeDataCommand< RaceRacerEntity?> . . . 79
RaceDay.Domain.Interfaces.ICreateRaceRacerCommand . . . 72
RaceDay.SqlLite.Commands.CreateRaceRacerCommand . . . 35
RaceDay.Domain.Interfaces.IExchangeDataCommand< RacerEntity?> . . . 79
RaceDay.Domain.Interfaces.ICreateRacerCommand . . . 73
RaceDay.SqlLite.Commands.CreateRacerCommand . . . 38
RaceDay.WpfUi.Interfaces.INavigableViewModel . . . 80
RaceDay.WpfUi.ViewModels.AddRacerViewModel . . . 18
RaceDay.WpfUi.ViewModels.HomeViewModel . . . 67
INotifyDataErrorInfo
RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation . . . 110
RaceDay.WpfUi.Models.NewRaceDayModel . . . 95
RaceDay.WpfUi.Models.RacerModel . . . 120
INotifyPropertyChanged
RaceDay.WpfUi.Infrastructure.ObservableObject . . . 107
RaceDay.WpfUi.Infrastructure.DialogViewModelBase< RaceModel > . . . 58
RaceDay.WpfUi.ViewModels.AddRacerViewModel . . . 18
RaceDay.WpfUi.Infrastructure.DialogViewModelBase< NewRaceDayModel, DaySummaryModel > . . . 58
RaceDay.WpfUi.ViewModels.NewRaceDayViewModel . . . 99
RaceDay.WpfUi.Infrastructure.DialogViewModelBase< NewRaceModel, RaceSummaryModel > . . . 58
RaceDay.WpfUi.ViewModels.NewRaceViewModel . . . 104
RaceDay.WpfUi.Infrastructure.DialogViewModelBase< TModel, TResult > . . . 58
RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation . . . 110
RaceDay.WpfUi.Infrastructure.ViewModelBase . . . 145
RaceDay.WpfUi.ViewModels.DaySummaryViewModel . . . 48
RaceDay.WpfUi.ViewModels.HomeViewModel . . . 67
RaceDay.WpfUi.ViewModels.MainViewModel . . . 89
RaceDay.WpfUi.ViewModels.RaceViewModel . . . 138
RaceDay.WpfUi.ViewModels.RacesSummaryViewModel . . . 130
RaceDay.WpfUi.Models.NewRaceModel . . . 102
RaceDay.WpfUi.Models.RaceModel . . . 115
RaceDay.WpfUi.Models.RacerLapModel . . . 117

RaceDay.WpfUi.Services.DialogService . . . 55
RaceDay.WpfUi.Services.NavigationService . . . 92
RaceDay.WpfUi.ViewModels.RacerViewModel . . . 126
System.Windows.Markup.InternalTypeHelper
XamlGeneratedNamespace.GeneratedInternalTypeHelper . . . 63
RaceDay.Domain.Interfaces.IRacerLapQuery . . . 86
RaceDay.SqlLite.Queries.RacerLapQuery . . . 118
RaceDay.Domain.Interfaces.IRacersQuery . . . 87
RaceDay.SqlLite.Queries.RacersQuery . . . 123
RaceDay.Domain.Interfaces.IRaceSummaryQuery . . . 88
RaceDay.SqlLite.Queries.RaceSummaryQuery . . . 134
IValueConverter
RaceDay.WpfUi.Converters.EqualityToVisibilityConverter . . . 61
RaceDay.WpfUi.Converters.InverseBooleanConverter . . . 83
RaceDay.WpfUi.Converters.InverseEqualityToVisibilityConverter . . . 85
RaceDay.WpfUi.Converters.RowIndexConverter . . . 143
MarkupExtension
RaceDay.WpfUi.Extensions.Int32Extension . . . 82
System.Windows.Controls.Page
RaceDay.WpfUi.Pages.HomePage . . . 64
RaceDay.WpfUi.Models.RaceSummaryModel . . . 133
System.Windows.Controls.UserControl
RaceDay.WpfUi.Controls.AppHeader . . . 23
RaceDay.WpfUi.Views.AddRacerView . . . 17
RaceDay.WpfUi.Views.CreateRaceDayView . . . 34
RaceDay.WpfUi.Views.DatePickerView . . . 44
RaceDay.WpfUi.Views.DaySummaryView . . . 47
RaceDay.WpfUi.Views.HomeView . . . 66
RaceDay.WpfUi.Views.NewRaceDayView . . . 98
RaceDay.WpfUi.Views.NewRaceView . . . 103
RaceDay.WpfUi.Views.RaceDayRacesView . . . 113
RaceDay.WpfUi.Views.RaceDaySummaryView . . . 114
RaceDay.WpfUi.Views.RaceView . . . 137
RaceDay.WpfUi.Views.RacerView . . . 125
RaceDay.WpfUi.Views.RacesSummaryView . . . 129
UserControl
RaceDay.WpfUi.Controls.AppHeader . . . 23
ValidationRule
RaceDay.WpfUi.ValidationRules.FloatValidationRule . . . 62
System.Windows.Window
RaceDay.WpfUi.MainWindow . . . 91
Window
RaceDay.WpfUi.MainWindow . . . 91

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

RaceDay.WpfUi.Views.AddRacerView
AddRacerView . . . 17
RaceDay.WpfUi.ViewModels.AddRacerViewModel
A view model providing data and logic for the Add Racer view . . . 18
RaceDay.WpfUi.App
Interaction logic for App.xaml . . . 22
RaceDay.WpfUi.Controls.AppHeader
Interaction logic for AppHeader.xaml The header for the application . . . 23
RaceDay.WpfUi.StartUp.Bootstrapper
The bootstrapper for the application.
This class is responsible for creating the host and configuring the services . . . 25
RaceDay.WpfUi.Controls.CardDataField
Interaction logic for CardDataField.xaml A field for displaying data in a card . . . 26
RaceDay.SqlLite.Infrastructure.CommandQueryBase
The base class for all command and query classes . . . 28
RaceDay.SqlLite.Commands.CreateRaceCommand
30
RaceDay.SqlLite.Commands.CreateRaceDayCommand
32
RaceDay.WpfUi.Views.CreateRaceDayView
CreateRaceDayView . . . 34
RaceDay.SqlLite.Commands.CreateRaceRacerCommand
35
RaceDay.SqlLite.Commands.CreateRacerCommand
38
RaceDay.SqlLite.Commands.CreateRacerLapCommand
40
RaceDay.Domain.Exceptions.CreateRecordException
Exception thrown when a record cannot be created . . . 42
RaceDay.WpfUi.Views.DatePickerView
DatePickerView . . . 44
RaceDay.SqlLite.Queries.DaySummaryQuery
45
RaceDay.WpfUi.Views.DaySummaryView
DaySummaryView . . . 47

RaceDay.WpfUi.ViewModels.DaySummaryViewModel
A view model providing data and logic for the Day Summary view . . . 48
RaceDay.SqlLite.Commands.DeleteRaceLapCommand
51
RaceDay.SqlLite.Commands.DeleteRaceRacerCommand
53
RaceDay.WpfUi.Services.DialogService
Service for displaying dialogs in the application . . . 55
RaceDay.WpfUi.Infrastructure.DialogViewModelBase< TModel, TResult >
Base class for view models that are used to display dialogs . . . 58
RaceDay.WpfUi.Converters.EqualityToVisibilityConverter
Converts a value to a visibility If the value equals the parameter, then visible, otherwise collapsed 61
RaceDay.WpfUi.ValidationRules.FloatValidationRule
A validation rule for validating float values . . . 62
XamlGeneratedNamespace.GeneratedInternalTypeHelper
GeneratedInternalTypeHelper . . . 63
RaceDay.WpfUi.Pages.HomePage
HomePage . . . 64
RaceDay.WpfUi.Views.HomeView
HomeView . . . 66
RaceDay.WpfUi.ViewModels.HomeViewModel
A view model providing data and logic for the Home view . . . 67
RaceDay.Domain.Interfaces.ICreateRaceCommand
A command for creating Race . . . 70
RaceDay.Domain.Interfaces.ICreateRaceDayCommand
A command for creating Race Day . . . 71
RaceDay.Domain.Interfaces.ICreateRaceRacerCommand
A command for creating Racer for a Race . . . 72
RaceDay.Domain.Interfaces.ICreateRacerCommand
A command for creating Racer . . . 73
RaceDay.Domain.Interfaces.ICreateRacerLapCommand
A command for creating Lap for a Racer . . . 74
RaceDay.Domain.Interfaces.IDaySummaryQuery
A query for getting Day Summaries . . . 76
RaceDay.Domain.Interfaces.IDeleteRaceLapCommand
A command for deleting a Lap for a Racer . . . 77
RaceDay.Domain.Interfaces.IDeleteRaceRacerCommand
A command for deleting a Racer from the Race . . . 78
RaceDay.Domain.Interfaces.IExchangeDataCommand< T >
A command for creating or updating an entity . . . 79
RaceDay.WpfUi.Interfaces.INavigableViewModel
Interface for view models that need to be notified when navigated to . . . 80
RaceDay.WpfUi.Extensions.Int32Extension
Markup extension to allow for int32 values in xaml . . . 82
RaceDay.WpfUi.Converters.InverseBooleanConverter
Converts a boolean to its inverse . . . 83
RaceDay.WpfUi.Converters.InverseEqualityToVisibilityConverter
Converts a value to a visibility If the value equals the parameter, then collapsed, otherwise visible 85
RaceDay.Domain.Interfaces.IRacerLapQuery
A query to retrieve Laps for a Racer . . . 86
RaceDay.Domain.Interfaces.IRacersQuery
A query for getting Racers . . . 87
RaceDay.Domain.Interfaces.IRaceSummaryQuery
A query for Race summary . . . 88
RaceDay.WpfUi.ViewModels.MainViewModel
A view model providing data and logic for the Main view . . . 89
RaceDay.WpfUi.MainWindow
Interaction logic for MainWindow.xaml . . . 91

RaceDay.WpfUi.Services.NavigationService
Service for navigating between views in the application . . . 92
RaceDay.WpfUi.Models.NewRaceDayModel
A model for creating new Race Days . . . 95
RaceDay.WpfUi.Views.NewRaceDayView
NewRaceDayView . . . 98
RaceDay.WpfUi.ViewModels.NewRaceDayViewModel
A view model providing data and logic for view for creating new Race Days . . . 99
RaceDay.WpfUi.Models.NewRaceModel
Model for creating new Races . . . 102
RaceDay.WpfUi.Views.NewRaceView
NewRaceView . . . 103
RaceDay.WpfUi.ViewModels.NewRaceViewModel
A view model providing data and logic for a view for creating new Races . . . 104
RaceDay.WpfUi.Infrastructure.ObservableObject
Base class for observable objects Implements INotifyPropertyChanged . . . 107
RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation
Base class for observable objects with validation
Implements INotifyPropertyChanged
Implements INotifyDataErrorInfo . . . 110
RaceDay.WpfUi.Views.RaceDayRacesView
RaceDayRacesView . . . 113
RaceDay.WpfUi.Views.RaceDaySummaryView
RaceDaySummaryView . . . 114
RaceDay.WpfUi.Models.RaceModel
A model of the Race . . . 115
RaceDay.WpfUi.Models.RacerLapModel
A model of the Racer Lap . . . 117
RaceDay.SqlLite.Queries.RacerLapQuery
118
RaceDay.WpfUi.Models.RacerModel
Model for Racer . . . 120
RaceDay.SqlLite.Queries.RacersQuery
123
RaceDay.WpfUi.Views.RacerView
RacerView . . . 125
RaceDay.WpfUi.ViewModels.RacerViewModel
A view model providing data and logic for the Racer view . . . 126
RaceDay.WpfUi.Views.RacesSummaryView
RacesSummaryView . . . 129
RaceDay.WpfUi.ViewModels.RacesSummaryViewModel
A view model providing data and logic for Races Summary view . . . 130
RaceDay.WpfUi.Models.RaceSummaryModel
A model for the Race Summary . . . 133
RaceDay.SqlLite.Queries.RaceSummaryQuery
134
RaceDay.WpfUi.Views.RaceView
RaceView . . . 137
RaceDay.WpfUi.ViewModels.RaceViewModel
A view model providing data and logic for the Race view . . . 138
RaceDay.Domain.Exceptions.RecordExistException
Exception thrown when a record already exists . . . 140
RaceDay.WpfUi.Infrastructure.RelayCommand
A command that can be bound to a UI element . . . 141
RaceDay.WpfUi.Converters.RowIndexConverter
Convenience converter to get the row index of an item in a list . . . 143
RaceDay.WpfUi.Infrastructure.ViewModelBase
Base class for all view models . . . 145

Chapter 4

Namespace Documentation

4.1 RaceDay Namespace Reference

4.2 RaceDay.Domain Namespace Reference

4.3 RaceDay.Domain.DTOs Namespace Reference

4.4 RaceDay.Domain.Entities Namespace Reference

Variables

- record **DayEntity**

  Represents the Day entity.
- **init**
- record **RaceEntity**

  Represents the Race Entity.
- record **RaceLapEntity**

  Represents the RaceLap entity, which is a record of a lap for a racer within the race.
- record **RacerEntity**

  The racer entity.

4.5 RaceDay.Domain.Exceptions Namespace Reference

Classes

- class CreateRecordException

  Exception thrown when a record cannot be created.
- class RecordExistException

  Exception thrown when a record already exists.

4.6 RaceDay.Domain.Interfaces Namespace Reference

Classes

- interface ICreateRaceCommand

  A command for creating Race.
- interface ICreateRaceDayCommand

  A command for creating Race Day.
- interface ICreateRaceRacerCommand

  A command for creating Racer for a Race.
- interface ICreateRacerCommand

  A command for creating Racer.
- interface ICreateRacerLapCommand

  A command for creating Lap for a Racer.
- interface IDaySummaryQuery

  A query for getting Day Summaries.
- interface IDeleteRaceLapCommand

  A command for deleting a Lap for a Racer.
- interface IDeleteRaceRacerCommand

  A command for deleting a Racer from the Race.
- interface IExchangeDataCommand

  A command for creating or updating an entity.
- interface IRacerLapQuery

  A query to retrieve Laps for a Racer.
- interface IRacersQuery

  A query for getting Racers.
- interface IRaceSummaryQuery

  A query for Race summary.

4.7 RaceDay.SqlLite Namespace Reference

4.8 RaceDay.SqlLite.Commands Namespace Reference

Classes

- class CreateRaceCommand
- class CreateRaceDayCommand
- class CreateRaceRacerCommand
- class CreateRacerCommand
- class CreateRacerLapCommand
- class DeleteRaceLapCommand
- class DeleteRaceRacerCommand

4.9 RaceDay.SqlLite.Infrastructure Namespace Reference

Classes

- class CommandQueryBase

  The base class for all command and query classes.

4.10 RaceDay.SqlLite.Queries Namespace Reference

Classes

- class DaySummaryQuery
- class RacerLapQuery
- class RacersQuery
- class RaceSummaryQuery

4.11 RaceDay.WpfUi Namespace Reference

Classes

- class App

  Interaction logic for App.xaml.
- class MainWindow

  Interaction logic for MainWindow.xaml.

4.12 RaceDay.WpfUi.Controls Namespace Reference

Classes

- class AppHeader

  Interaction logic for AppHeader.xaml The header for the application.
- class CardDataField

  Interaction logic for CardDataField.xaml A field for displaying data in a card.

4.13 RaceDay.WpfUi.Converters Namespace Reference

Classes

- class EqualityToVisibilityConverter

  Converts a value to a visibility If the value equals the parameter, then visible, otherwise collapsed.
- class InverseBooleanConverter

  Converts a boolean to its inverse.
- class InverseEqualityToVisibilityConverter

  Converts a value to a visibility If the value equals the parameter, then collapsed, otherwise visible.
- class RowIndexConverter

  Convenience converter to get the row index of an item in a list.

4.14 RaceDay.WpfUi.Extensions Namespace Reference

Classes

- class Int32Extension

  Markup extension to allow for int32 values in xaml.

4.15 RaceDay.WpfUi.Infrastructure Namespace Reference

Classes

- class DialogViewModelBase

  Base class for view models that are used to display dialogs.
- class ObservableObject

  Base class for observable objects Implements INotifyPropertyChanged
- class ObservableObjectWithValidation

  Base class for observable objects with validation
  Implements INotifyPropertyChanged
  Implements INotifyDataErrorInfo
- class RelayCommand

  A command that can be bound to a UI element.
- class ViewModelBase

  Base class for all view models.

4.16 RaceDay.WpfUi.Interfaces Namespace Reference

Classes

- interface INavigableViewModel

  Interface for view models that need to be notified when navigated to.

4.17 RaceDay.WpfUi.Models Namespace Reference

Classes

- class NewRaceDayModel

  A model for creating new Race Days.
- class NewRaceModel

  Model for creating new Races.
- class RaceModel

  A model of the Race.
- class RacerLapModel

  A model of the Racer Lap.
- class RacerModel

  Model for Racer.
- class RaceSummaryModel

  A model for the Race Summary.

4.18 RaceDay.WpfUi.Pages Namespace Reference

Classes

- class HomePage

  HomePage.

4.19 RaceDay.WpfUi.Services Namespace Reference

Classes

- class DialogService

  Service for displaying dialogs in the application.
- class NavigationService

  Service for navigating between views in the application.

4.20 RaceDay.WpfUi.StartUp Namespace Reference

Classes

- class Bootstrapper

  The bootstrapper for the application.
  This class is responsible for creating the host and configuring the services.

4.21 RaceDay.WpfUi.ValidationRules Namespace Reference

Classes

- class FloatValidationRule

  A validation rule for validating float values.

4.22 RaceDay.WpfUi.ViewModels Namespace Reference

Classes

- class AddRacerViewModel

  A view model providing data and logic for the Add Racer view.
- class DaySummaryViewModel

  A view model providing data and logic for the Day Summary view.
- class HomeViewModel

  A view model providing data and logic for the Home view.
- class MainViewModel

  A view model providing data and logic for the Main view.
- class NewRaceDayViewModel

  A view model providing data and logic for view for creating new Race Days.
- class NewRaceViewModel

  A view model providing data and logic for a view for creating new Races.
- class RacerViewModel

  A view model providing data and logic for the Racer view.
- class RacesSummaryViewModel

  A view model providing data and logic for Races Summary view.
- class RaceViewModel

  A view model providing data and logic for the Race view.

4.23 RaceDay.WpfUi.Views Namespace Reference

Classes

- class AddRacerView

  AddRacerView.
- class CreateRaceDayView

  CreateRaceDayView.
- class DatePickerView

  DatePickerView.
- class DaySummaryView

  DaySummaryView.
- class HomeView

  HomeView.
- class NewRaceDayView

  NewRaceDayView.
- class NewRaceView

  NewRaceView.
- class RaceDayRacesView

  RaceDayRacesView.
- class RaceDaySummaryView

  RaceDaySummaryView.
- class RacerView

  RacerView.
- class RacesSummaryView

  RacesSummaryView.
- class RaceView

  RaceView.

4.24 XamlGeneratedNamespace Namespace Reference

Classes

- class GeneratedInternalTypeHelper

  GeneratedInternalTypeHelper.

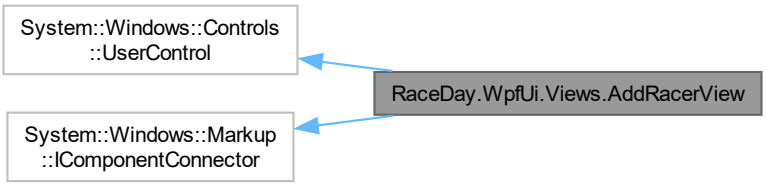
Chapter 5

Class Documentation

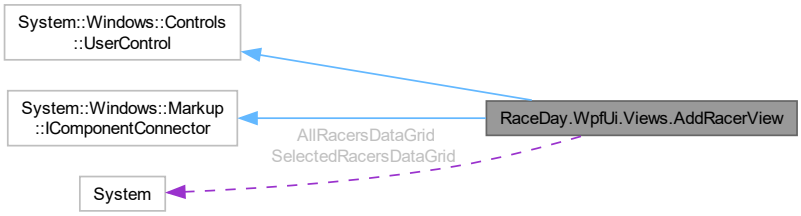
5.1 RaceDay.WpfUi.Views.AddRacerView Class Reference

AddRacerView.

Inheritance diagram for RaceDay.WpfUi.Views.AddRacerView:



Collaboration diagram for RaceDay.WpfUi.Views.AddRacerView:



Public Member Functions

- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.

5.1.1 Detailed Description

AddRacerView.

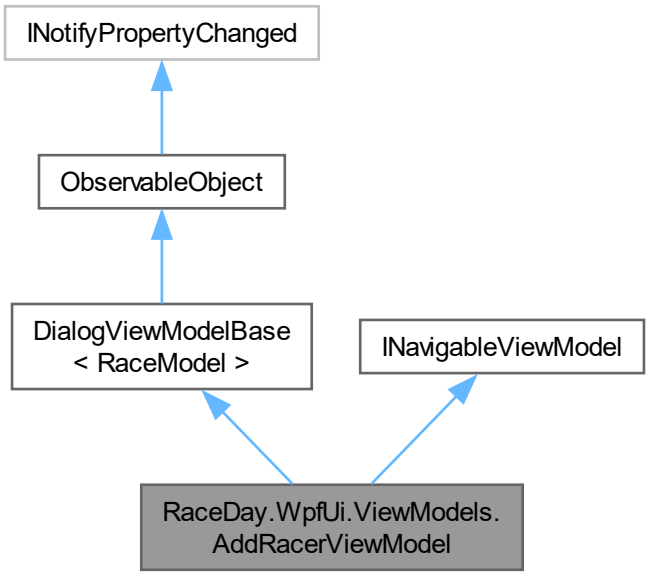
The documentation for this class was generated from the following files:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/AddRacerView.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/AddRacerView.g.i.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Release/net6.0-windows/Views/AddRacerView.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Views/AddRacerView.xaml.cs

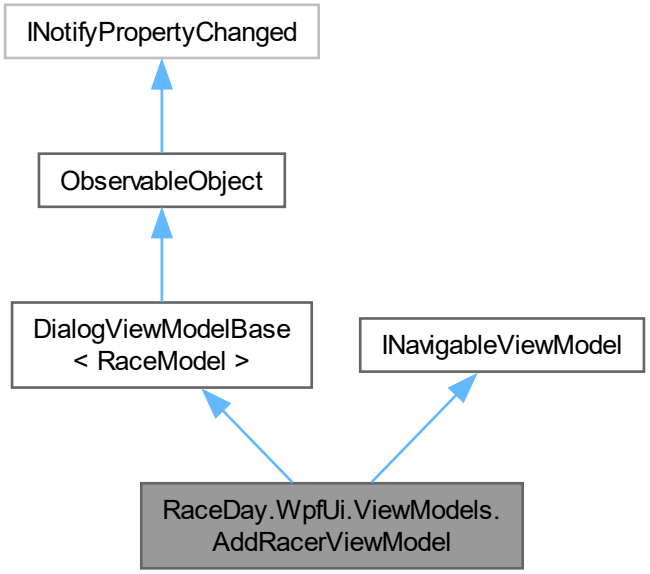
5.2 RaceDay.WpfUi.ViewModels.AddRacerViewModel Class Reference

A view model providing data and logic for the Add Racer view.

Inheritance diagram for RaceDay.WpfUi.ViewModels.AddRacerViewModel:



Collaboration diagram for RaceDay.WpfUi.ViewModels.AddRacerViewModel:



Public Member Functions

- AddRacerViewModel (IRacersQuery racersQuery, ICreateRacerCommand createRacerCommand, ICreateRaceRacerCommand createRaceRacerCommand, IDeleteRaceRacerCommand deleteRaceRacer↩ Command)

  Initializes a new instance of the AddRacerViewModel class.
- void OnNavigatedTo ()

  Called when the view model is navigated to.

Public Member Functions inherited from RaceDay.WpfUi.Infrastructure.DialogViewModelBase< RaceModel >

- void **OpenDialog** ()

  Opens the dialog.
- void **CloseDialog** (object? o=null)

  Closes the dialog.

- void OnNavigatedTo ()

  Called when the view model is navigated to.

Properties

- RacerModel **NewRacer** `[get]`

  The new racer to be added.
- ObservableCollection< RacerModel > **AllRacers** = new() `[get]`

  A collection of all racers within the system.
- ObservableCollection< RacerModel > **SelectedRacers** = new() `[get]`

  A collection of racers selected for the Race.
- ICommand **CreateNewRacerCommand** `[get]`

  A command for creating a new racer.
- ICommand **CancelNewRacerCommand** `[get]`

  A command for cancelling the creation of a new racer.
- ICommand **CloseCommand** `[get]`

  A command for closing the dialog.
- ICommand **RemoveRacersCommand** `[get]`

  A command for removing a racer from selection.
- ICommand **AddSelectedRacersCommand** `[get]`

  A command for adding a racer to selection.

Properties inherited from RaceDay.WpfUi.Infrastructure.DialogViewModelBase< RaceModel >

- string **ErrorMessage** `[get, protected set]`

  The error message to display in the dialog.
- bool **DisplayError** `[get]`

  Whether or not to display the error message in the dialog.
- bool **DialogHostIsOpen** `[get]`

  Indicates whether or not the dialog is open. This is used to bind to the DialogHost.IsOpen property. Dialog closes when this is set to false.
- virtual ? DialogClosingEventHandler **DialogClosingHandler** `[get, set]`

  The dialog closing handler. This is used to bind to the DialogHost.DialogClosing attached property. This can be used to prevent the dialog from closing or implement custom logic when the dialog closes.
- TModel Model `[get, set]`

  The result that is returned when the dialog closes. If no value is set, the dialog is assumed to have been cancelled.
- TResult? **Result** `[get, set]`

  The result that is returned when the dialog closes. If no value is set, the dialog is assumed to have been cancelled.

Additional Inherited Members

Static Public Member Functions inherited from RaceDay.WpfUi.Infrastructure.DialogViewModelBase< RaceModel >

- static bool **CanCloseDialog** (object? o)

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.2.1 Detailed Description

A view model providing data and logic for the Add Racer view.

5.2.2 Constructor & Destructor Documentation

5.2.2.1 AddRacerViewModel()

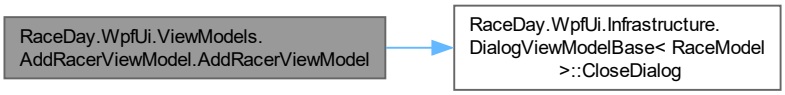
```
RaceDay.WpfUi.ViewModels.AddRacerViewModel.AddRacerViewModel (
            IRacersQuery racersQuery,
            ICreateRacerCommand createRacerCommand,
            ICreateRaceRacerCommand createRaceRacerCommand,
            IDeleteRaceRacerCommand deleteRaceRacerCommand )
```

Initializes a new instance of the AddRacerViewModel class.

Parameters

racersQuery	A query for retrieving racers
createRacerCommand	A command for creating a racer
createRaceRacerCommand	A command for adding a Racer to a Race
deleteRaceRacerCommand	A command for deleting a Racer from a Race

Here is the call graph for this function:



5.2.3 Member Function Documentation

5.2.3.1 OnNavigatedTo()

```
void RaceDay.WpfUi.ViewModels.AddRacerViewModel.OnNavigatedTo ( )
```

Called when the view model is navigated to.

Implements RaceDay.WpfUi.Interfaces.INavigableViewModel.

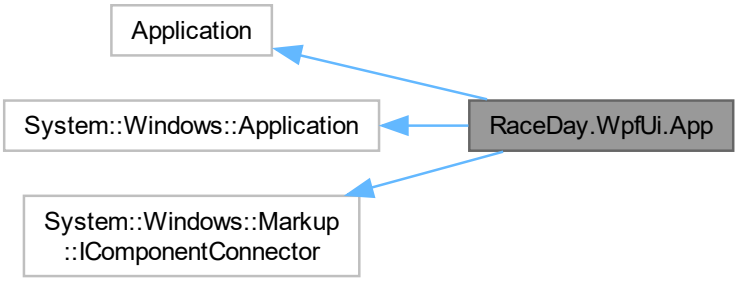
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/ViewModels/AddRacerViewModel.cs

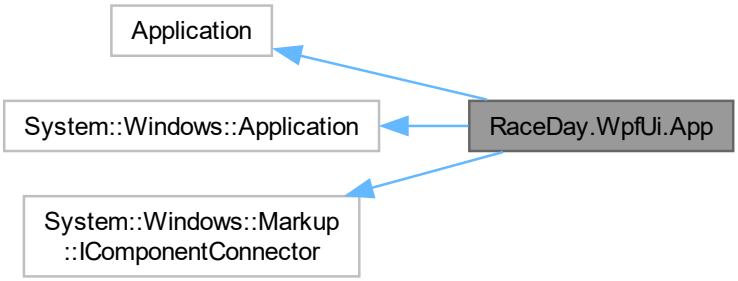
5.3 RaceDay.WpfUi.App Class Reference

Interaction logic for App.xaml.

Inheritance diagram for RaceDay.WpfUi.App:



Collaboration diagram for RaceDay.WpfUi.App:



Public Member Functions

- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.

Static Public Member Functions

- static void Main (string[ ] args)

  The main entry point for the application.

Protected Member Functions

- override void **OnStartup** (StartupEventArgs e)

5.3.1 Detailed Description

Interaction logic for App.xaml.

App.

5.3.2 Member Function Documentation

5.3.2.1 Main()

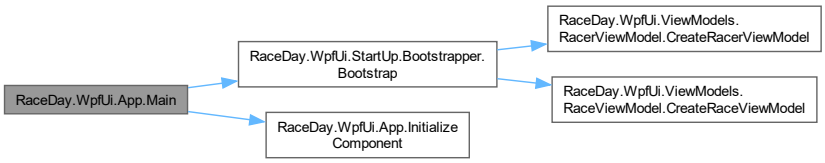
```
static void RaceDay.WpfUi.App.Main (
            string[] args )  [static]
```

The main entry point for the application.

Parameters

args	The command line arguments

Here is the call graph for this function:



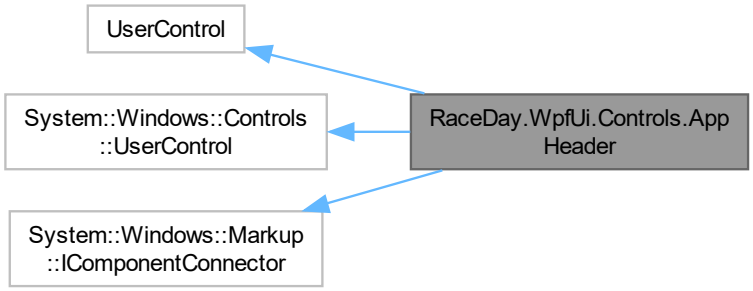
The documentation for this class was generated from the following files:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/App.xaml.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/App.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/App.g.i.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Release/net6.0-windows/App.g.cs

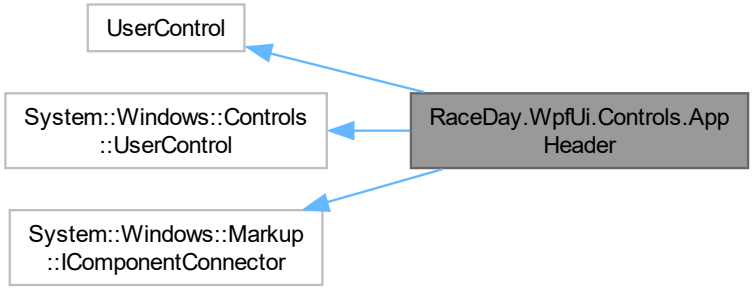
5.4 RaceDay.WpfUi.Controls.AppHeader Class Reference

Interaction logic for AppHeader.xaml The header for the application.

Inheritance diagram for RaceDay.WpfUi.Controls.AppHeader:



Collaboration diagram for RaceDay.WpfUi.Controls.AppHeader:



Public Member Functions

- **AppHeader** ()

  Initializes a new instance of the AppHeader class.
- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.

5.4.1 Detailed Description

Interaction logic for AppHeader.xaml The header for the application.

AppHeader.

The documentation for this class was generated from the following files:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Controls/AppHeader.xaml.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Controls/AppHeader.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Controls/AppHeader.g.i.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Release/net6.0-windows/Controls/AppHeader.g.cs

5.5 RaceDay.WpfUi.StartUp.Bootstrapper Class Reference

The bootstrapper for the application.
This class is responsible for creating the host and configuring the services.

Static Public Member Functions

- static IHost Bootstrap (string[] args)

  Creates the host and configures the services.

5.5.1 Detailed Description

The bootstrapper for the application.
This class is responsible for creating the host and configuring the services.

5.5.2 Member Function Documentation

5.5.2.1 Bootstrap()

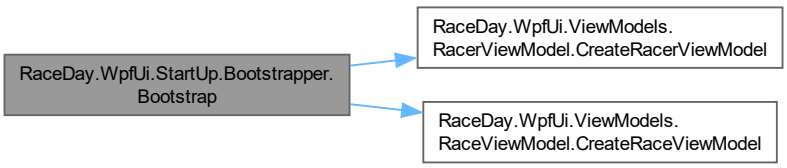
```
static IHost RaceDay.WpfUi.StartUp.Bootstrapper.Bootstrap (
            string[] args )  [static]
```

Creates the host and configures the services.

Parameters

args	The arguments.

Here is the call graph for this function:



Here is the caller graph for this function:

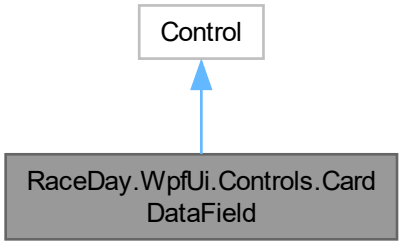
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/StartUp/Bootstrapper.cs

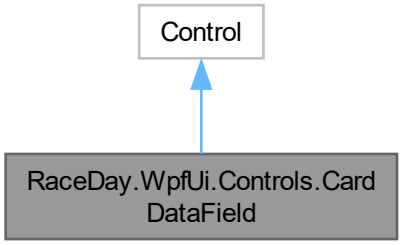
5.6 RaceDay.WpfUi.Controls.CardDataField Class Reference

Interaction logic for CardDataField.xaml A field for displaying data in a card.

Inheritance diagram for RaceDay.WpfUi.Controls.CardDataField:



Collaboration diagram for RaceDay.WpfUi.Controls.CardDataField:



Static Public Attributes

- static readonly DependencyProperty HeaderProperty

  The header dependency property.
- static readonly DependencyProperty ImageSourceProperty

  The image source dependency property.
- static readonly DependencyProperty ValueProperty

  The value dependency property.

Properties

- string **Header** `[get, set]`

  Gets or sets the header.
- string **Value** `[get, set]`

  Gets or sets the value.
- ImageSource **ImageSource** `[get, set]`

  Gets or sets the image source.

5.6.1 Detailed Description

Interaction logic for CardDataField.xaml A field for displaying data in a card.

5.6.2 Member Data Documentation

5.6.2.1 HeaderProperty

```
readonly DependencyProperty RaceDay.WpfUi.Controls.CardDataField.HeaderProperty  [static]
```

Initial value:

```
= DependencyProperty.Register(
        nameof(Header), typeof(string), typeof(CardDataField), new PropertyMetadata(default(string)))
```

The header dependency property.

5.6.2.2 ImageSourceProperty

```
readonly DependencyProperty RaceDay.WpfUi.Controls.CardDataField.ImageSourceProperty  [static]
```

Initial value:

```
= DependencyProperty.Register(
        nameof(ImageSource), typeof(ImageSource), typeof(CardDataField), new
      PropertyMetadata(default(ImageSource)))
```

The image source dependency property.

5.6.2.3 ValueProperty

```
readonly DependencyProperty RaceDay.WpfUi.Controls.CardDataField.ValueProperty  [static]
```

Initial value:

```
= DependencyProperty.Register(
        nameof(Value), typeof(string), typeof(CardDataField), new PropertyMetadata(default(string)))
```

The value dependency property.

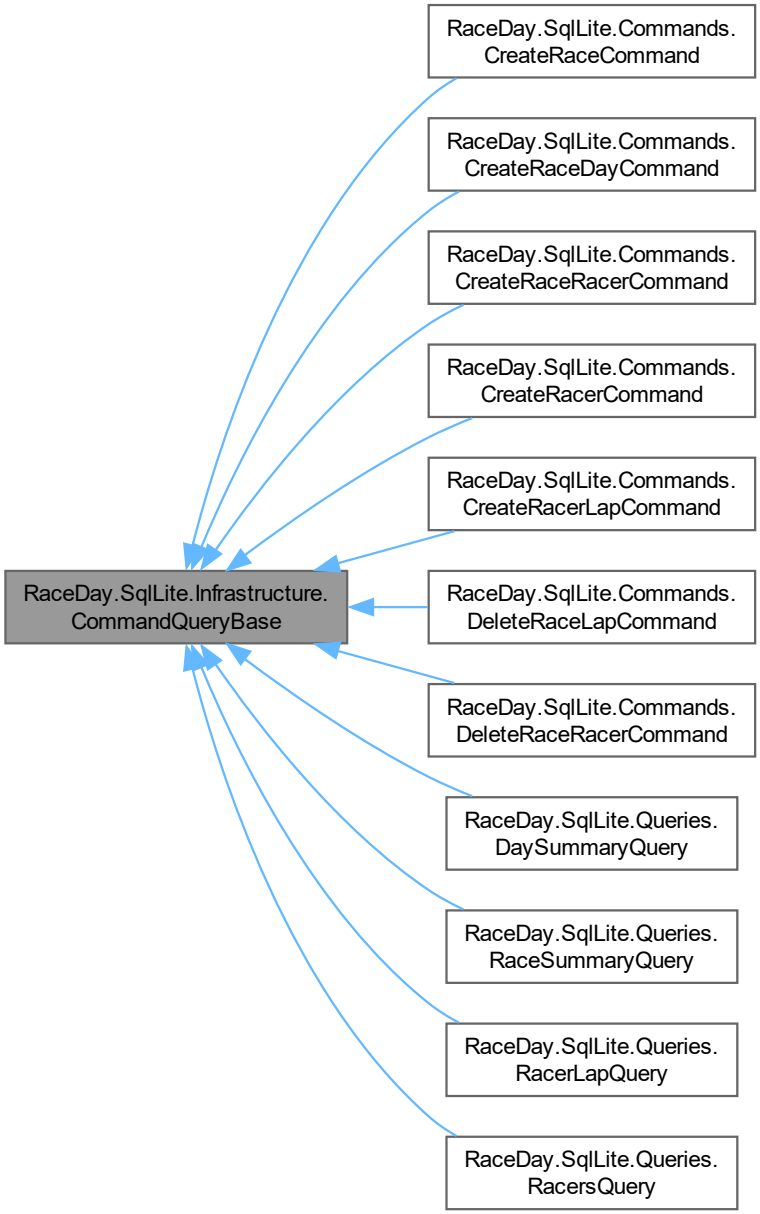
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Controls/CardDataField.cs

5.7 RaceDay.SqlLite.Infrastructure.CommandQueryBase Class Reference

The base class for all command and query classes.

Inheritance diagram for RaceDay.SqlLite.Infrastructure.CommandQueryBase:



Protected Member Functions

- CommandQueryBase (string dbPath)

  Creates a new instance of the CommandQueryBase class.
- SQLiteConnection **CreateConnection** ()

  Creates a new SQLiteConnection instance.

Properties

- SQLiteConnectionString **ConnectionString** `[get]`

  The connection string to the database.

5.7.1 Detailed Description

The base class for all command and query classes.

5.7.2 Constructor & Destructor Documentation

5.7.2.1 CommandQueryBase()

```
RaceDay.SqlLite.Infrastructure.CommandQueryBase.CommandQueryBase (
            string dbPath ) [protected]
```

Creates a new instance of the CommandQueryBase class.

Parameters

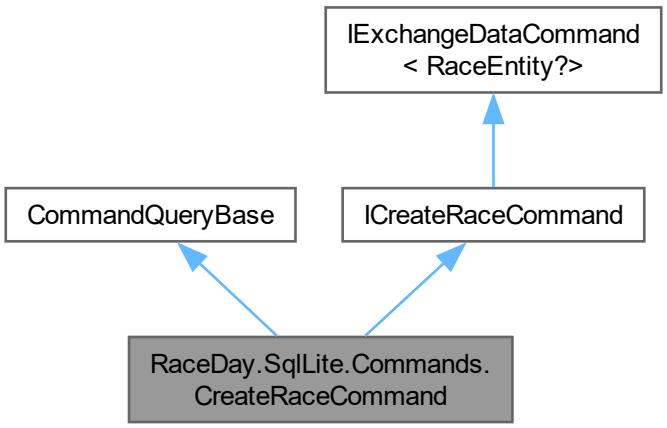
dbPath	The connection string to the database.

The documentation for this class was generated from the following file:

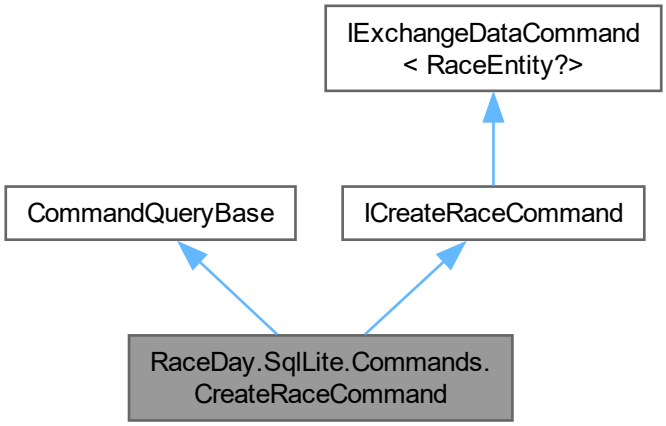
- D:/Personal/College.RaceDay/src/RaceDay.SqlLite/Infrastructure/CommandQueryBase.cs

5.8 RaceDay.SqlLite.Commands.CreateRaceCommand Class Reference

Inheritance diagram for RaceDay.SqlLite.Commands.CreateRaceCommand:



Collaboration diagram for RaceDay.SqlLite.Commands.CreateRaceCommand:



Public Member Functions

- **CreateRaceCommand** (string connectionString)
- RaceEntity? **Execute** (RaceEntity? entity)

Public Member Functions inherited from RaceDay.Domain.Interfaces.IExchangeDataCommand< RaceEntity?>

- T? Execute (T entity)

  Creates or Updates an entity and returns the new record.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- CommandQueryBase (string dbPath)

  Creates a new instance of the CommandQueryBase class.
- SQLiteConnection **CreateConnection** ()

  Creates a new SQLiteConnection instance.

Properties inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- SQLiteConnectionString **ConnectionString** `[get]`

  The connection string to the database.

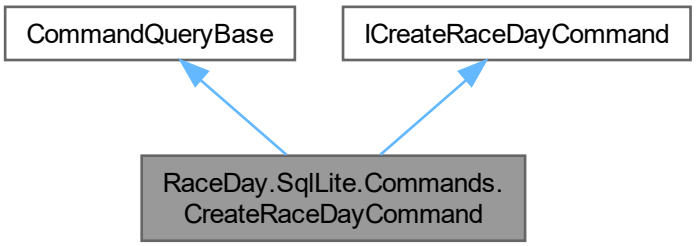
5.8.1 Detailed Description

The documentation for this class was generated from the following file:

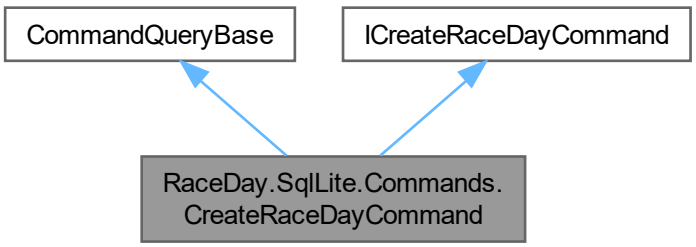
- D:/Personal/College.RaceDay/src/RaceDay.SqlLite/Commands/CreateRaceCommand.cs

5.9 RaceDay.SqlLite.Commands.CreateRaceDayCommand Class Reference

Inheritance diagram for RaceDay.SqlLite.Commands.CreateRaceDayCommand:



Collaboration diagram for RaceDay.SqlLite.Commands.CreateRaceDayCommand:



Public Member Functions

- **CreateRaceDayCommand** (string connectionString)
- DayEntity? Execute (DayEntity entity)

  Creates a new Race Day record and returns the new record.

Parameters

entity	*Record to create*

- DayEntity? Execute (DayEntity entity)

  Creates a new Race Day record and returns the new record.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- CommandQueryBase (string dbPath)

  Creates a new instance of the CommandQueryBase class.
- SQLiteConnection **CreateConnection** ()

  Creates a new SQLiteConnection instance.

Properties inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- SQLiteConnectionString **ConnectionString** `[get]`

  The connection string to the database.

5.9.1 Detailed Description

5.9.2 Member Function Documentation

5.9.2.1 Execute()

```
DayEntity?  RaceDay.SqlLite.Commands.CreateRaceDayCommand.Execute (
             DayEntity entity )
```

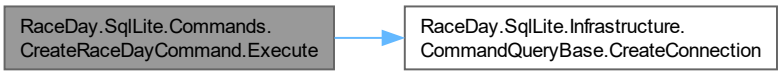
Creates a new Race Day record and returns the new record.

Parameters

entity	Record to create

Implements RaceDay.Domain.Interfaces.ICreateRaceDayCommand.

Here is the call graph for this function:



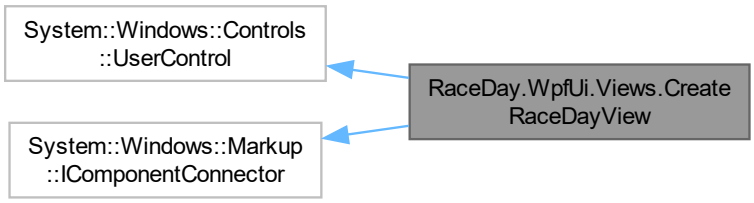
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.SqlLite/Commands/CreateRaceDayCommand.cs

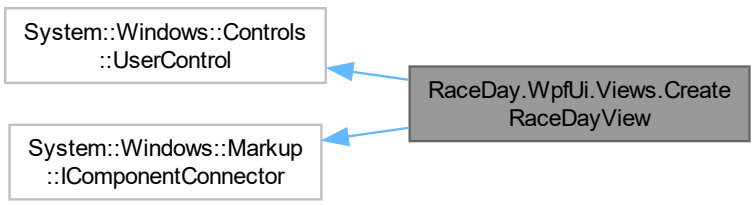
5.10 RaceDay.WpfUi.Views.CreateRaceDayView Class Reference

CreateRaceDayView.

Inheritance diagram for RaceDay.WpfUi.Views.CreateRaceDayView:



Collaboration diagram for RaceDay.WpfUi.Views.CreateRaceDayView:



Public Member Functions

- void **InitializeComponent** ()

  InitializeComponent.

5.10.1 Detailed Description

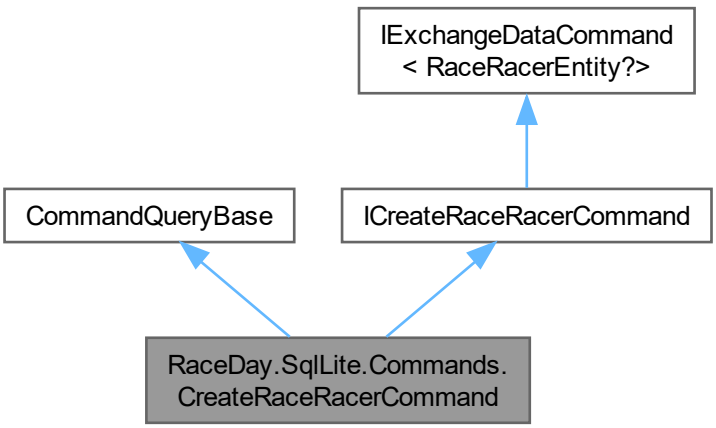
CreateRaceDayView.

The documentation for this class was generated from the following file:

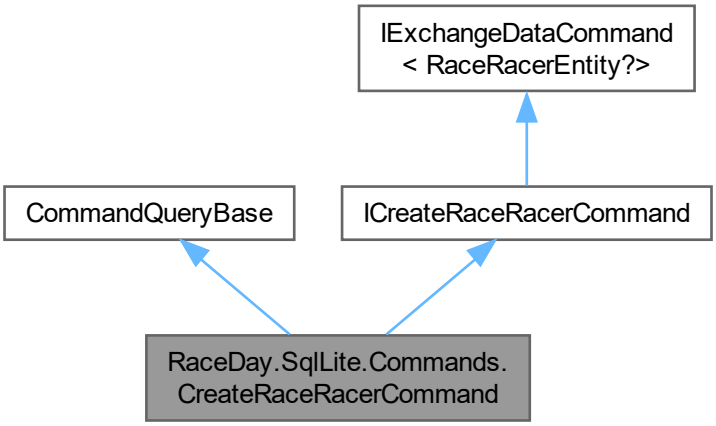
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/CreateRaceDayView.↩g.i.cs

5.11 RaceDay.SqlLite.Commands.CreateRaceRacerCommand Class Reference

Inheritance diagram for RaceDay.SqlLite.Commands.CreateRaceRacerCommand:



Collaboration diagram for RaceDay.SqlLite.Commands.CreateRaceRacerCommand:



Public Member Functions

- **CreateRaceRacerCommand** (string connectionString)
- RaceRacerEntity? Execute (RaceRacerEntity? entity)

  Adds a racer to race and returns the new record.

Public Member Functions inherited from RaceDay.Domain.Interfaces.IExchangeDataCommand< RaceRacerEntity?>

- T? Execute (T entity)

  Creates or Updates an entity and returns the new record.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- CommandQueryBase (string dbPath)

  Creates a new instance of the CommandQueryBase class.
- SQLiteConnection **CreateConnection** ()

  Creates a new SQLiteConnection instance.

Properties inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- SQLiteConnectionString **ConnectionString** `[get]`

  The connection string to the database.

5.11.1 Detailed Description

5.11.2 Member Function Documentation

5.11.2.1 Execute()

```
RaceRacerEntity?  RaceDay.SqlLite.Commands.CreateRaceRacerCommand.Execute (
            RaceRacerEntity?  entity )
```

Adds a racer to race and returns the new record.

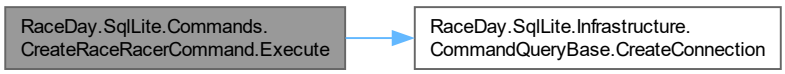
Parameters

entity	Record to create

Exceptions

Exception	Throws if record not found
CreateRecordException	Throws if error creating record

Here is the call graph for this function:

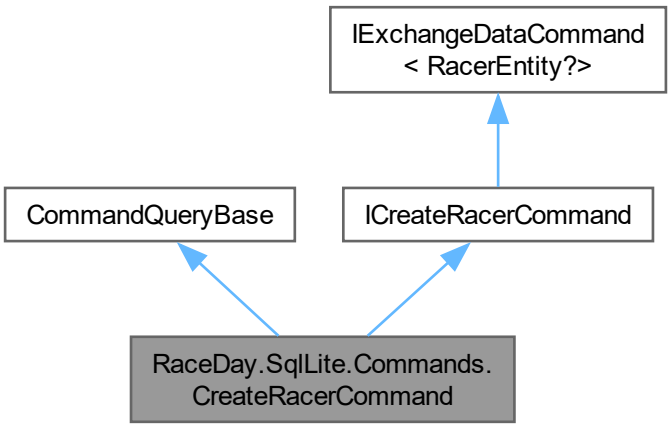


The documentation for this class was generated from the following file:

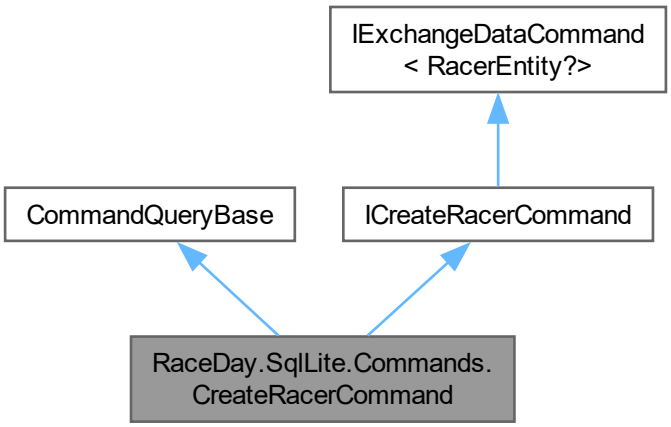
- D:/Personal/College.RaceDay/src/RaceDay.SqlLite/Commands/CreateRaceRacerCommand.cs

5.12 RaceDay.SqlLite.Commands.CreateRacerCommand Class Reference

Inheritance diagram for RaceDay.SqlLite.Commands.CreateRacerCommand:



Collaboration diagram for RaceDay.SqlLite.Commands.CreateRacerCommand:



Public Member Functions

- **CreateRacerCommand** (string connectionString)
- RacerEntity Execute (RacerEntity? entity)

  Creates a new Racer record and returns the new record.

Public Member Functions inherited from RaceDay.Domain.Interfaces.IExchangeDataCommand< RacerEntity?>

- T? Execute (T entity)

  Creates or Updates an entity and returns the new record.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- CommandQueryBase (string dbPath)

  Creates a new instance of the CommandQueryBase class.
- SQLiteConnection **CreateConnection** ()

  Creates a new SQLiteConnection instance.

Properties inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- SQLiteConnectionString **ConnectionString** `[get]`

  The connection string to the database.

5.12.1 Detailed Description

5.12.2 Member Function Documentation

5.12.2.1 Execute()

```
RacerEntity RaceDay.SqlLite.Commands.CreateRacerCommand.Execute (
            RacerEntity?  entity )
```

Creates a new Racer record and returns the new record.

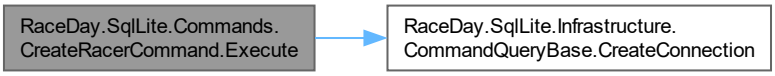
Parameters

entity	Racer to create

Exceptions

Exception	Thrown if record not found
CreateRecordException	Thrown if error creating record

Here is the call graph for this function:

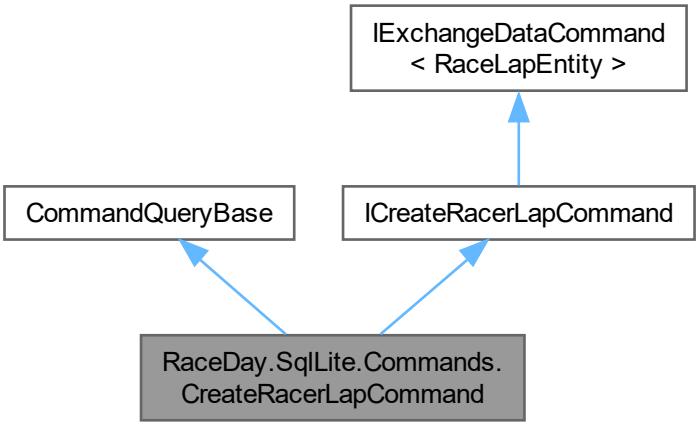


The documentation for this class was generated from the following file:

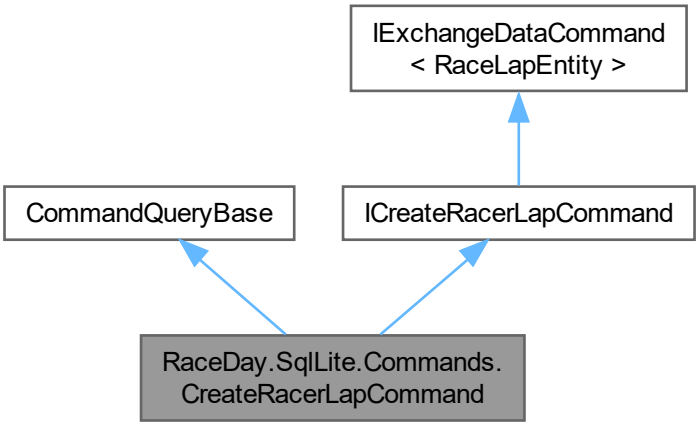
- D:/Personal/College.RaceDay/src/RaceDay.SqlLite/Commands/CreateRacerCommand.cs

5.13 RaceDay.SqlLite.Commands.CreateRacerLapCommand Class Reference

Inheritance diagram for RaceDay.SqlLite.Commands.CreateRacerLapCommand:



Collaboration diagram for RaceDay.SqlLite.Commands.CreateRacerLapCommand:



Public Member Functions

- **CreateRacerLapCommand** (string dbPath)
- RaceLapEntity? Execute (RaceLapEntity entity)

  Creates a new Lap record and returns the new record.

Public Member Functions inherited from RaceDay.Domain.Interfaces.IExchangeDataCommand< RaceLapEntity >

- T? Execute (T entity)

  Creates or Updates an entity and returns the new record.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- CommandQueryBase (string dbPath)

  Creates a new instance of the CommandQueryBase class.
- SQLiteConnection **CreateConnection** ()

  Creates a new SQLiteConnection instance.

Properties inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- SQLiteConnectionString **ConnectionString** `[get]`

  The connection string to the database.

5.13.1 Detailed Description

5.13.2 Member Function Documentation

5.13.2.1 Execute()

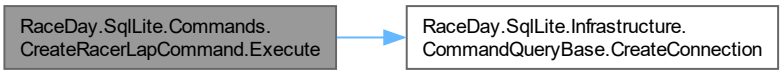
```
RaceLapEntity?  RaceDay.SqlLite.Commands.CreateRacerLapCommand.Execute (
            RaceLapEntity entity )
```

Creates a new Lap record and returns the new record.

Parameters

entity	Lap to create

Here is the call graph for this function:



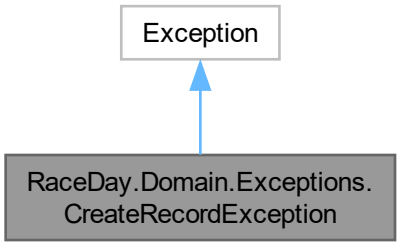
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.SqlLite/Commands/CreateRacerLapCommand.cs

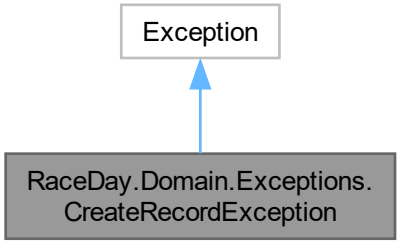
5.14 RaceDay.Domain.Exceptions.CreateRecordException Class Reference

Exception thrown when a record cannot be created.

Inheritance diagram for RaceDay.Domain.Exceptions.CreateRecordException:



Collaboration diagram for RaceDay.Domain.Exceptions.CreateRecordException:



Public Member Functions

- **CreateRecordException** ()
  Initializes a new instance of the CreateRecordException class.
- CreateRecordException (string message)
  Initializes a new instance of the CreateRecordException class.
- CreateRecordException (string message, Exception exception)
  Initializes a new instance of the CreateRecordException class.

5.14.1 Detailed Description

Exception thrown when a record cannot be created.

5.14.2 Constructor & Destructor Documentation

5.14.2.1 CreateRecordException() [1/2]

```
RaceDay.Domain.Exceptions.CreateRecordException.CreateRecordException (
            string message )
```

Initializes a new instance of the CreateRecordException class.

Parameters

message	The message that describes the error.

5.14.2.2 CreateRecordException() [2/2]

```
RaceDay.Domain.Exceptions.CreateRecordException.CreateRecordException (
            string message,
            Exception exception )
```

Initializes a new instance of the CreateRecordException class.

Parameters

message	The message that describes the error.
exception	The exception that is the cause of the current exception.

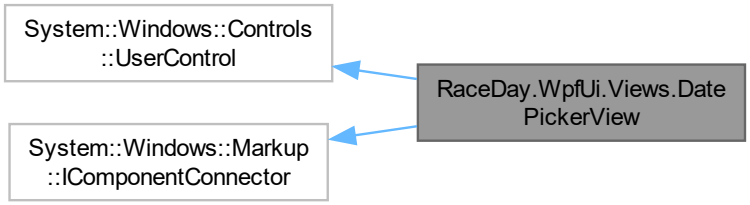
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.Domain/Exceptions/CreateRecordException.cs

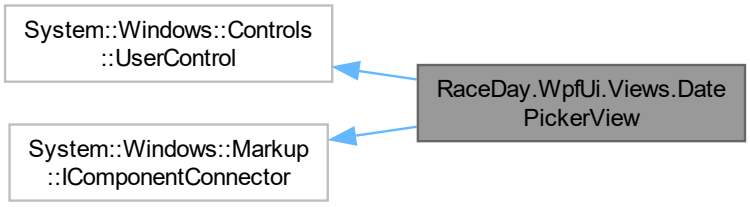
5.15 RaceDay.WpfUi.Views.DatePickerView Class Reference

DatePickerView.

Inheritance diagram for RaceDay.WpfUi.Views.DatePickerView:



Collaboration diagram for RaceDay.WpfUi.Views.DatePickerView:



Public Member Functions

- void **InitializeComponent** ()

  InitializeComponent.

5.15.1 Detailed Description

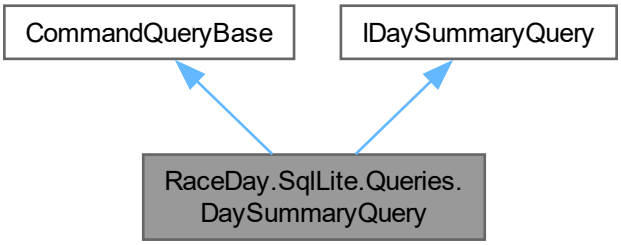
DatePickerView.

The documentation for this class was generated from the following file:

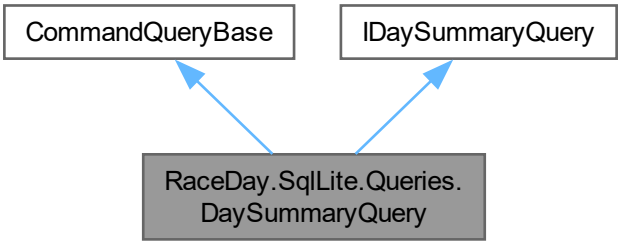
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/DatePickerView.g.i.cs

5.16 RaceDay.SqlLite.Queries.DaySummaryQuery Class Reference

Inheritance diagram for RaceDay.SqlLite.Queries.DaySummaryQuery:



Collaboration diagram for RaceDay.SqlLite.Queries.DaySummaryQuery:



Public Member Functions

- **DaySummaryQuery** (string connectionString)
- IEnumerable< DaySummaryDto > GetAll ()

  Gets all Day Summaries.
- DaySummaryDto? GetById (int id)

  Gets a Day Summary by Id.

Parameters

id	*Id of the Day Summary to get*

Returns

Day Summary with the given Id or null

- IEnumerable< DaySummaryDto > GetAll ()
  Gets all Day Summaries.
- DaySummaryDto? GetById (int id)
  Gets a Day Summary by Id.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- CommandQueryBase (string dbPath)
  Creates a new instance of the CommandQueryBase class.
- SQLiteConnection **CreateConnection** ()
  Creates a new SQLiteConnection instance.

Properties inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- SQLiteConnectionString **ConnectionString** `[get]`
  The connection string to the database.

5.16.1 Detailed Description

5.16.2 Member Function Documentation

5.16.2.1 GetAll()

```
IEnumerable< DaySummaryDto > RaceDay.SqlLite.Queries.DaySummaryQuery.GetAll ( )
```

Gets all Day Summaries.

Implements RaceDay.Domain.Interfaces.IDaySummaryQuery.

Here is the call graph for this function:

5.16.2.2 GetById()

```
DaySummaryDto?  RaceDay.SqlLite.Queries.DaySummaryQuery.GetById (
            int id )
```

Gets a Day Summary by Id.

Parameters

id	Id of the Day Summary to get

Returns

Day Summary with the given Id or null

Implements RaceDay.Domain.Interfaces.IDaySummaryQuery.

Here is the call graph for this function:

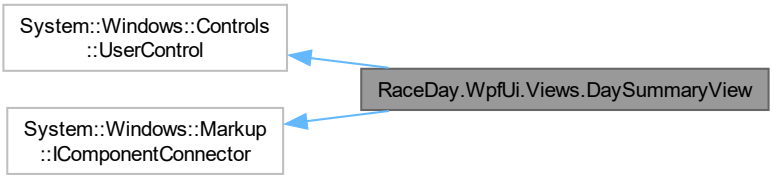
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.SqlLite/Queries/DaySummaryQuery.cs

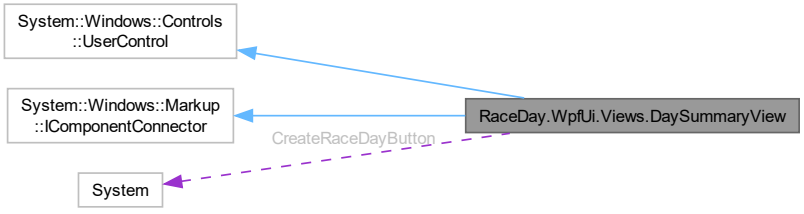
5.17 RaceDay.WpfUi.Views.DaySummaryView Class Reference

DaySummaryView.

Inheritance diagram for RaceDay.WpfUi.Views.DaySummaryView:



Collaboration diagram for RaceDay.WpfUi.Views.DaySummaryView:



Public Member Functions

- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.

5.17.1 Detailed Description

DaySummaryView.

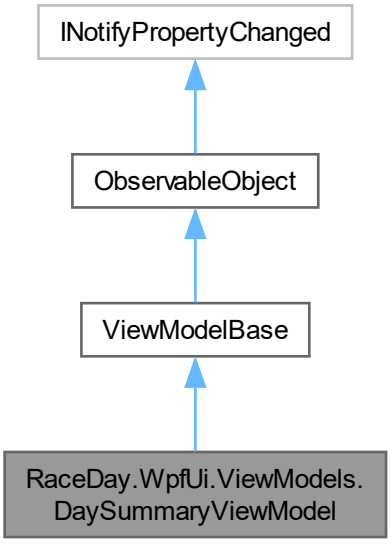
The documentation for this class was generated from the following files:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/DaySummaryView.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/DaySummaryView.g.↩ i.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Release/net6.0-windows/Views/DaySummaryView.↩ g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Views/DaySummaryView.xaml.cs

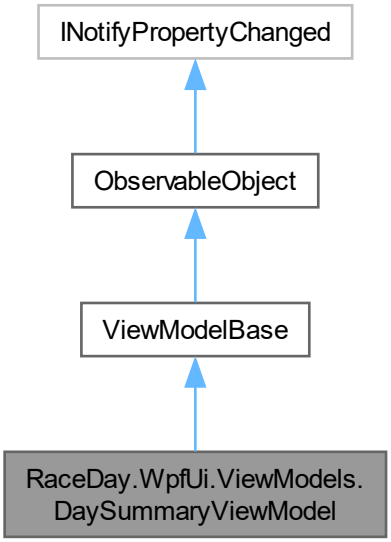
5.18 RaceDay.WpfUi.ViewModels.DaySummaryViewModel Class Reference

A view model providing data and logic for the Day Summary view.

Inheritance diagram for RaceDay.WpfUi.ViewModels.DaySummaryViewModel:



Collaboration diagram for RaceDay.WpfUi.ViewModels.DaySummaryViewModel:



Public Member Functions

- DaySummaryViewModel (DialogService dialogService, IDaySummaryQuery raceDaySummaryQuery)

  Creates a new instance of the DaySummaryViewModel class.
- void LoadData (bool changeSelectedDay=true)

  Loads data from the persistence layer.

Properties

- bool **DisplayAsKilometers** `[get, set]`

  Indicates whether to display the distance in miles or kilometers.
- ObservableCollection< DaySummaryModel > **RaceDays** = new() `[get]`

  A collection of Race Day summaries.
- DaySummaryModel? **SelectedRaceDay** `[get, set]`

  The Race Day selected in the UI.
- string **ViewTitle** `[get]`

  The title of the view.
- ICommand **CreateRaceDayCommand** `[get]`

  A command for creating Race Day.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.18.1 Detailed Description

A view model providing data and logic for the Day Summary view.

5.18.2 Constructor & Destructor Documentation

5.18.2.1 DaySummaryViewModel()

```
RaceDay.WpfUi.ViewModels.DaySummaryViewModel.DaySummaryViewModel (
            DialogService dialogService,
            IDaySummaryQuery raceDaySummaryQuery )
```

Creates a new instance of the DaySummaryViewModel class.

Parameters

dialogService	The dialog service
raceDaySummaryQuery	A query for Race Day summaries

5.18.3 Member Function Documentation

5.18.3.1 LoadData()

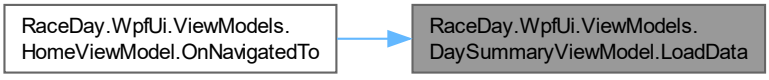
```
void RaceDay.WpfUi.ViewModels.DaySummaryViewModel.LoadData (
            bool changeSelectedDay = true )
```

Loads data from the persistence layer.

Parameters

changeSelectedDay	Indicates whether to change the selected day

Here is the caller graph for this function:

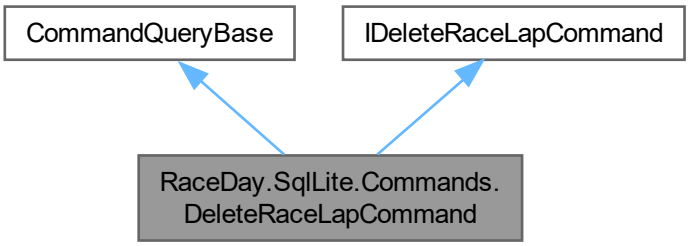


The documentation for this class was generated from the following file:

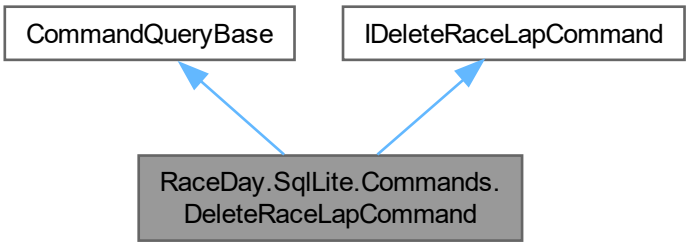
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/ViewModels/DaySummaryViewModel.cs

5.19 RaceDay.SqlLite.Commands.DeleteRaceLapCommand Class Reference

Inheritance diagram for RaceDay.SqlLite.Commands.DeleteRaceLapCommand:



Collaboration diagram for RaceDay.SqlLite.Commands.DeleteRaceLapCommand:



Public Member Functions

- **DeleteRaceLapCommand** (string dbPath)
- bool Execute (int raceLapId)

  Deletes the lap for racer.

- bool Execute (int raceLapId)

  Deletes the lap for racer.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- CommandQueryBase (string dbPath)

  Creates a new instance of the CommandQueryBase class.
- SQLiteConnection **CreateConnection** ()

  Creates a new SQLiteConnection instance.

Properties inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- SQLiteConnectionString **ConnectionString** `[get]`

  The connection string to the database.

5.19.1 Detailed Description

5.19.2 Member Function Documentation

5.19.2.1 Execute()

```
bool RaceDay.SqlLite.Commands.DeleteRaceLapCommand.Execute (
            int raceLapId )
```

Deletes the lap for racer.

Parameters

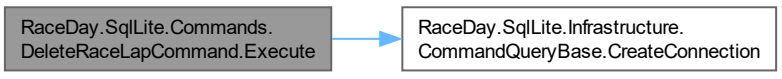
raceLapId	Id of the lap to delete

Returns

True if the lap was deleted, false if not

Implements RaceDay.Domain.Interfaces.IDeleteRaceLapCommand.

Here is the call graph for this function:

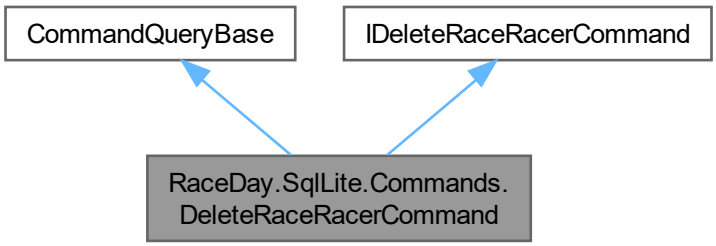


The documentation for this class was generated from the following file:

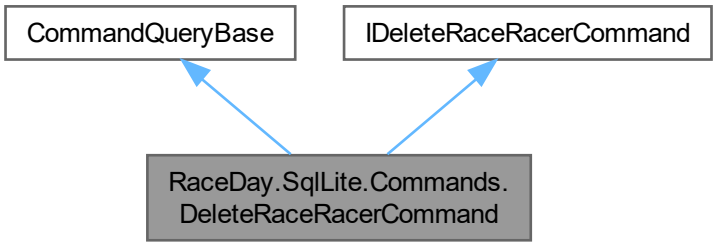
- D:/Personal/College.RaceDay/src/RaceDay.SqlLite/Commands/DeleteRaceLapCommand.cs

5.20 RaceDay.SqlLite.Commands.DeleteRaceRacerCommand Class Reference

Inheritance diagram for RaceDay.SqlLite.Commands.DeleteRaceRacerCommand:



Collaboration diagram for RaceDay.SqlLite.Commands.DeleteRaceRacerCommand:



Public Member Functions

- **DeleteRaceRacerCommand** (string dbPath)
- bool Execute (int raceId, int racerId)

  Deletes racer from race.

- bool Execute (int raceId, int racerId)

  Deletes racer from race.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- CommandQueryBase (string dbPath)

  Creates a new instance of the CommandQueryBase class.
- SQLiteConnection **CreateConnection** ()

  Creates a new SQLiteConnection instance.

Properties inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- SQLiteConnectionString **ConnectionString** `[get]`

  The connection string to the database.

5.20.1 Detailed Description

5.20.2 Member Function Documentation

5.20.2.1 Execute()

```
bool RaceDay.SqlLite.Commands.DeleteRaceRacerCommand.Execute (
            int raceId,
            int racerId )
```

Deletes racer from race.

Parameters

raceId	The Race Id to remove the racer from
racerId	The Racer Id to be removed

Returns

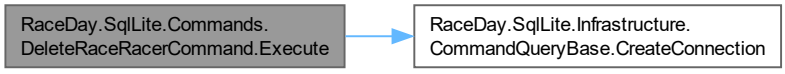
True if the racer was deleted, false if not

Exceptions

Exception	Throws if laps remain for racer

Implements RaceDay.Domain.Interfaces.IDeleteRaceRacerCommand.

Here is the call graph for this function:



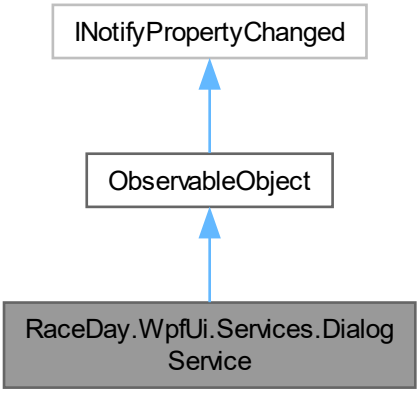
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.SqlLite/Commands/DeleteRaceRacerCommand.cs

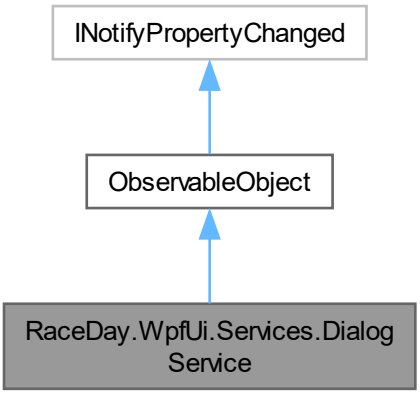
5.21 RaceDay.WpfUi.Services.DialogService Class Reference

Service for displaying dialogs in the application.

Inheritance diagram for RaceDay.WpfUi.Services.DialogService:



Collaboration diagram for RaceDay.WpfUi.Services.DialogService:



Public Member Functions

- DialogService (IServiceProvider serviceProvider)

  Creates a new instance of the DialogService class.
- async Task< TResult?> DisplayDialogAsync< TViewModel, TModel, TResult > (TModel model)

  Displays a dialog with the specified view model.
- async Task DisplayDialogAsync< TViewModel, TModel > (TModel model)

  Displays a dialog with the specified view model.

Properties

- string **DialogHostIdentifier** = ¨RootDialogHost¨ `[get]`

  The identifier of the dialog host.
- DialogViewModelBase? **ActiveDialogViewModel** `[get]`

  A view model currently displayed in the dialog host.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.21.1 Detailed Description

Service for displaying dialogs in the application.

5.21.2 Constructor & Destructor Documentation

5.21.2.1 DialogService()

```
RaceDay.WpfUi.Services.DialogService.DialogService (
            IServiceProvider serviceProvider )
```

Creates a new instance of the DialogService class.

Parameters

serviceProvider	The service provider

5.21.3 Member Function Documentation

5.21.3.1 DisplayDialogAsync< TViewModel, TModel >()

```
async Task RaceDay.WpfUi.Services.DialogService.DisplayDialogAsync< TViewModel, TModel > (
            TModel model )
```

Displays a dialog with the specified view model.

Parameters

model	The base model containing the data to be displayed.

Template Parameters

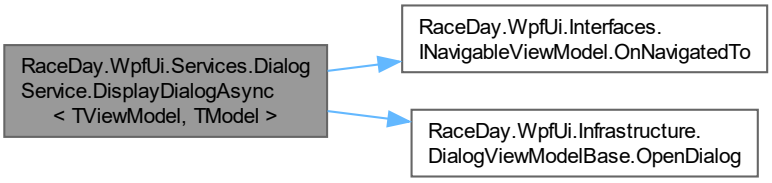
TViewModel	The type of the view model.
TModel	The type of the model.

Type Constraints

TViewModel **:** ***DialogViewModelBase*** $<$ ***TModel*** $>$

TViewModel **:** ***INavigableViewModel***

Here is the call graph for this function:



5.21.3.2 DisplayDialogAsync< TViewModel, TModel, TResult >()

```
async Task< TResult?> RaceDay.WpfUi.Services.DialogService.DisplayDialogAsync< TViewModel,
TModel, TResult > (
            TModel model )
```

Displays a dialog with the specified view model.

Parameters

model	The base model containing the data to be displayed.

Template Parameters

TViewModel	The type of the view model.
TModel	The type of the model.
TResult	The type of the result.

Returns

The result specified by the *TResult*

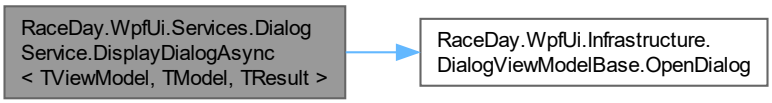
Type Constraints

TViewModel **:** ***DialogViewModelBase***

TViewModel **:** ***TModel***

TViewModel **:** ***TResult***

Here is the call graph for this function:



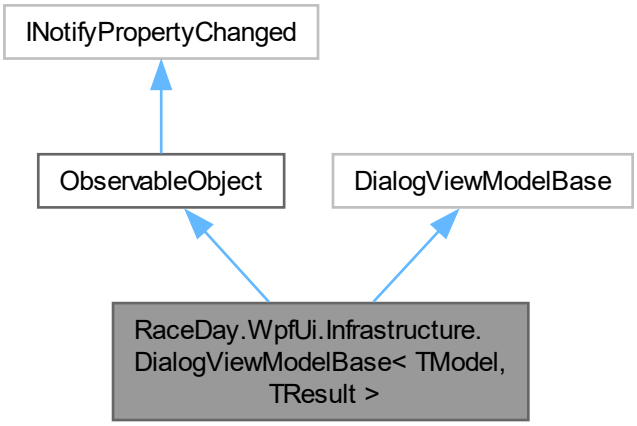
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Services/DialogService.cs

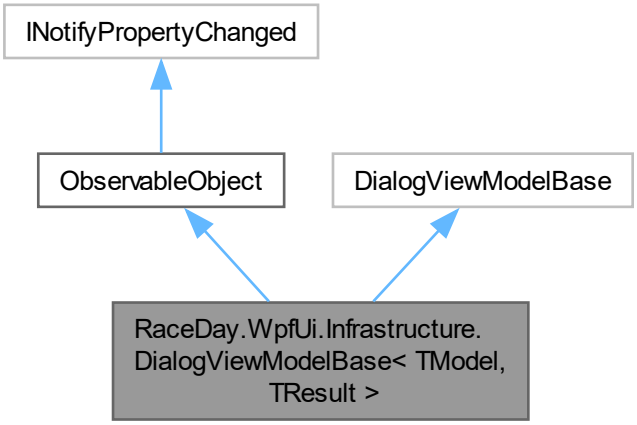
5.22 RaceDay.WpfUi.Infrastructure.DialogViewModelBase< TModel, TResult > Class Template Reference

Base class for view models that are used to display dialogs.

Inheritance diagram for RaceDay.WpfUi.Infrastructure.DialogViewModelBase< TModel, TResult >:



Collaboration diagram for RaceDay.WpfUi.Infrastructure.DialogViewModelBase< TModel, TResult >:



Public Member Functions

- void **OpenDialog** ()

  Opens the dialog.
- void **CloseDialog** (object? o=null)

  Closes the dialog.

Static Public Member Functions

- static bool **CanCloseDialog** (object? o)

Properties

- string **ErrorMessage** `[get, protected set]`

  The error message to display in the dialog.
- bool **DisplayError** `[get]`

  Whether or not to display the error message in the dialog.
- bool **DialogHostIsOpen** `[get]`

  Indicates whether or not the dialog is open. This is used to bind to the DialogHost.IsOpen property. Dialog closes when this is set to false.
- virtual ? DialogClosingEventHandler **DialogClosingHandler** `[get, set]`

  The dialog closing handler. This is used to bind to the DialogHost.DialogClosing attached property. This can be used to prevent the dialog from closing or implement custom logic when the dialog closes.
- TModel Model `[get, set]`

  The result that is returned when the dialog closes. If no value is set, the dialog is assumed to have been cancelled.
- TResult? **Result** `[get, set]`

  The result that is returned when the dialog closes. If no value is set, the dialog is assumed to have been cancelled.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.22.1 Detailed Description

Base class for view models that are used to display dialogs.

Base class for view models that are used to display dialogs, with a model and result.

Base class for view models that are used to display dialogs, with a result.

Template Parameters

TModel	A result that is returned when the dialog closes.

Template Parameters

TModel	A model that is used to display data in the dialog.
TResult	A result that is returned when the dialog closes.

5.22.2 Property Documentation

5.22.2.1 Model

```
TModel DialogViewModelBase.Model  [get], [set]
```

The result that is returned when the dialog closes. If no value is set, the dialog is assumed to have been cancelled.

The model that is used to display data in the dialog.

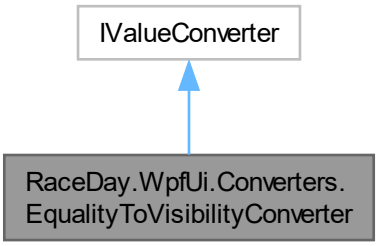
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Infrastructure/DialogViewModelBase.cs

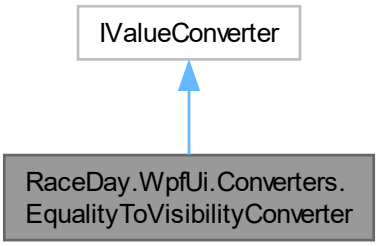
5.23 RaceDay.WpfUi.Converters.EqualityToVisibilityConverter Class Reference

Converts a value to a visibility If the value equals the parameter, then visible, otherwise collapsed.

Inheritance diagram for RaceDay.WpfUi.Converters.EqualityToVisibilityConverter:



Collaboration diagram for RaceDay.WpfUi.Converters.EqualityToVisibilityConverter:



Public Member Functions

- object **Convert** (object? value, Type targetType, object parameter, CultureInfo culture)
- object **ConvertBack** (object value, Type targetType, object parameter, CultureInfo culture)

5.23.1 Detailed Description

Converts a value to a visibility If the value equals the parameter, then visible, otherwise collapsed.

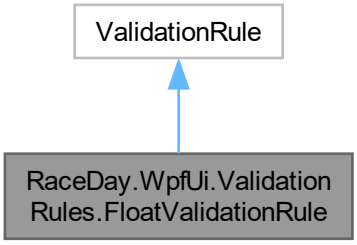
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Converters/EqualityToVisibilityConverter.cs

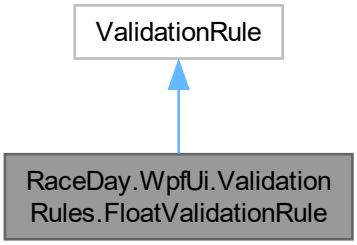
5.24 RaceDay.WpfUi.ValidationRules.FloatValidationRule Class Reference

A validation rule for validating float values.

Inheritance diagram for RaceDay.WpfUi.ValidationRules.FloatValidationRule:



Collaboration diagram for RaceDay.WpfUi.ValidationRules.FloatValidationRule:



Public Member Functions

- override ValidationResult **Validate** (object value, CultureInfo cultureInfo)

Properties

- float **Min** = 0 `[get, set]`

  The minimum value allowed.
- float? **Max** = null `[get, set]`

  The maximum value allowed.
- string **PropertyName** = ¨Value¨ `[get, set]`

  The name of the property being validated.

5.24.1 Detailed Description

A validation rule for validating float values.

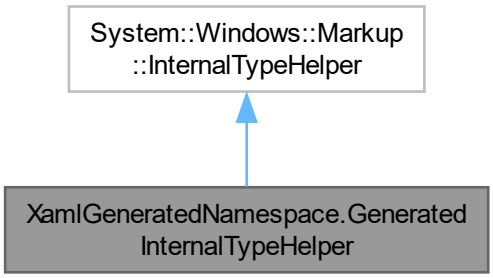
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/ValidationRules/FloatValidationRule.cs

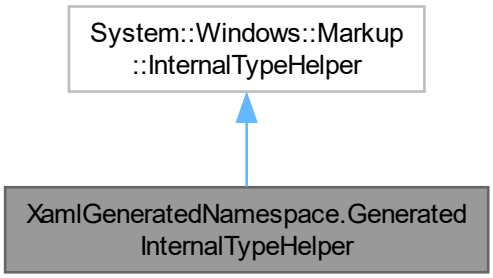
5.25 XamlGeneratedNamespace.GeneratedInternalTypeHelper Class Reference

GeneratedInternalTypeHelper.

Inheritance diagram for XamlGeneratedNamespace.GeneratedInternalTypeHelper:



Collaboration diagram for XamlGeneratedNamespace.GeneratedInternalTypeHelper:



Protected Member Functions

- override object **CreateInstance** (System.Type type, System.Globalization.CultureInfo culture)

  CreateInstance.
- override object **GetPropertyValue** (System.Reflection.PropertyInfo propertyInfo, object target, System.↩ Globalization.CultureInfo culture)

  GetPropertyValue.
- override void **SetPropertyValue** (System.Reflection.PropertyInfo propertyInfo, object target, object value, System.Globalization.CultureInfo culture)

  SetPropertyValue.
- override System.Delegate **CreateDelegate** (System.Type delegateType, object target, string handler)

  CreateDelegate.
- override void **AddEventHandler** (System.Reflection.EventInfo eventInfo, object target, System.Delegate handler)

  AddEventHandler.
- override object **CreateInstance** (System.Type type, System.Globalization.CultureInfo culture)

  CreateInstance.
- override object **GetPropertyValue** (System.Reflection.PropertyInfo propertyInfo, object target, System.↩ Globalization.CultureInfo culture)

  GetPropertyValue.
- override void **SetPropertyValue** (System.Reflection.PropertyInfo propertyInfo, object target, object value, System.Globalization.CultureInfo culture)

  SetPropertyValue.
- override System.Delegate **CreateDelegate** (System.Type delegateType, object target, string handler)

  CreateDelegate.
- override void **AddEventHandler** (System.Reflection.EventInfo eventInfo, object target, System.Delegate handler)

  AddEventHandler.

5.25.1 Detailed Description

GeneratedInternalTypeHelper.

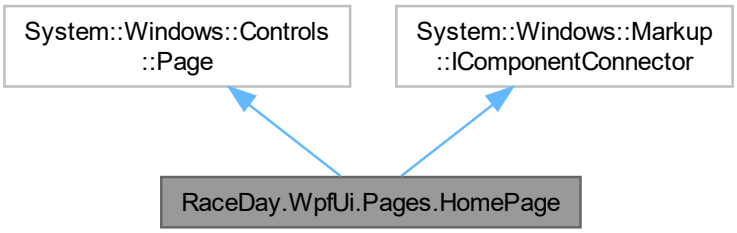
The documentation for this class was generated from the following files:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/GeneratedInternalType↩ Helper.g.i.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Release/net6.0-windows/GeneratedInternalType↩ Helper.g.cs

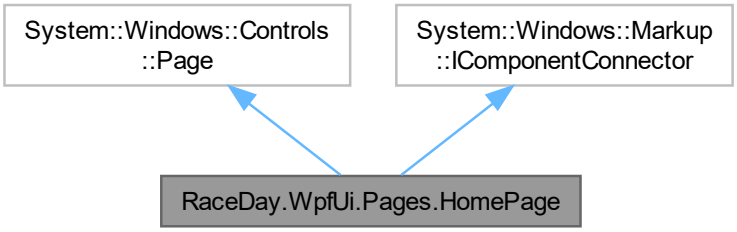
5.26 RaceDay.WpfUi.Pages.HomePage Class Reference

HomePage.

Inheritance diagram for RaceDay.WpfUi.Pages.HomePage:



Collaboration diagram for RaceDay.WpfUi.Pages.HomePage:



Public Member Functions

- void **InitializeComponent** ()

  InitializeComponent.

5.26.1 Detailed Description

HomePage.

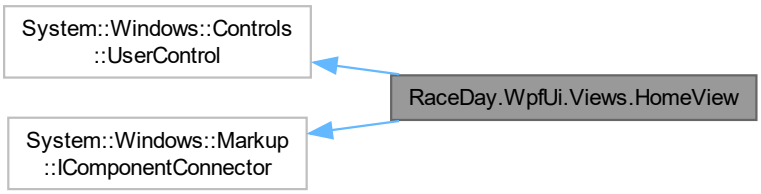
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Pages/HomePage.g.i.cs

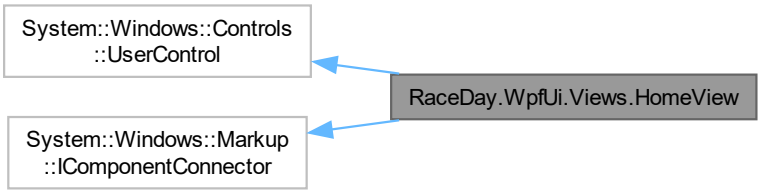
5.27 RaceDay.WpfUi.Views.HomeView Class Reference

HomeView.

Inheritance diagram for RaceDay.WpfUi.Views.HomeView:



Collaboration diagram for RaceDay.WpfUi.Views.HomeView:



Public Member Functions

- void **InitializeComponent** ()
  InitializeComponent.
- void **InitializeComponent** ()
  InitializeComponent.
- void **InitializeComponent** ()
  InitializeComponent.

5.27.1 Detailed Description

HomeView.

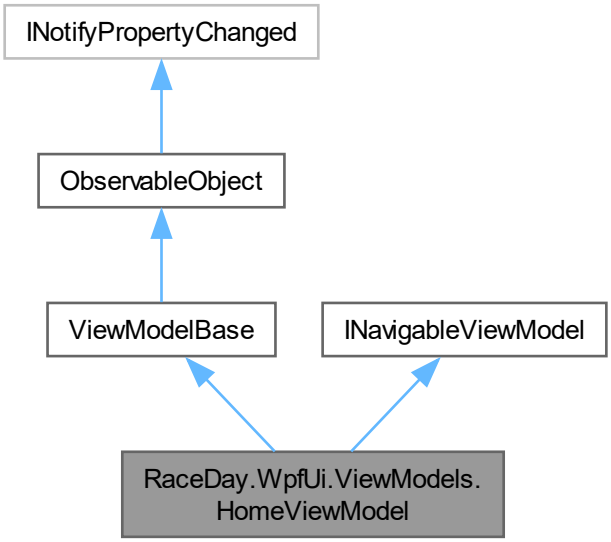
The documentation for this class was generated from the following files:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/HomeView.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/HomeView.g.i.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Release/net6.0-windows/Views/HomeView.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Views/HomeView.xaml.cs

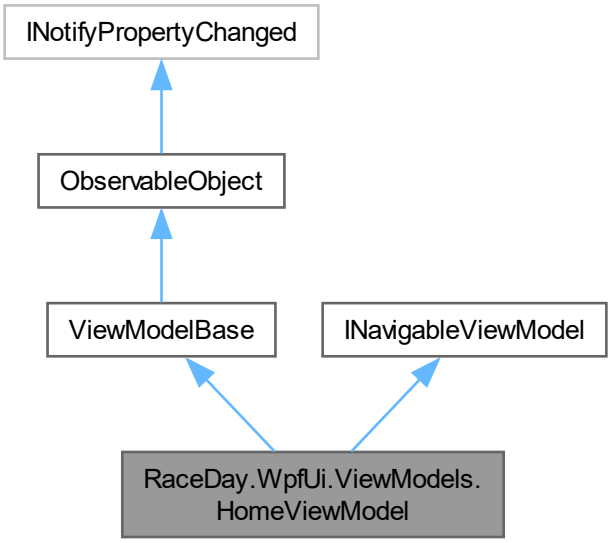
5.28 RaceDay.WpfUi.ViewModels.HomeViewModel Class Reference

A view model providing data and logic for the Home view.

Inheritance diagram for RaceDay.WpfUi.ViewModels.HomeViewModel:



Collaboration diagram for RaceDay.WpfUi.ViewModels.HomeViewModel:



Public Member Functions

- HomeViewModel (DaySummaryViewModel raceDaySummaryViewModel, RacesSummaryViewModel raceDayRacesViewModel)

  Creates a new instance of the HomeViewModel class.
- void OnNavigatedTo ()

  Called when the view model is navigated to.

- void OnNavigatedTo ()

  Called when the view model is navigated to.

Properties

- DaySummaryViewModel **RaceDaySummaryViewModel** `[get]`

  A view model providing data and logic for the Day Summary view.
- RacesSummaryViewModel **RaceDayRacesViewModel** `[get]`

  A view model providing data and logic for the Races Summary view.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.28.1 Detailed Description

A view model providing data and logic for the Home view.

5.28.2 Constructor & Destructor Documentation

5.28.2.1 HomeViewModel()

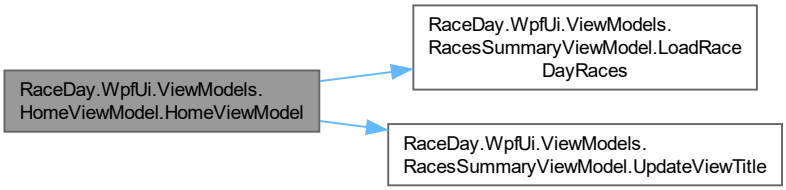
```
RaceDay.WpfUi.ViewModels.HomeViewModel.HomeViewModel (
            DaySummaryViewModel raceDaySummaryViewModel,
            RacesSummaryViewModel raceDayRacesViewModel )
```

Creates a new instance of the HomeViewModel class.

Parameters

raceDaySummaryViewModel	A view model providing data and logic for the Day Summary view
raceDayRacesViewModel	A view model providing data and logic for the Races Summary view

Here is the call graph for this function:



5.28.3 Member Function Documentation

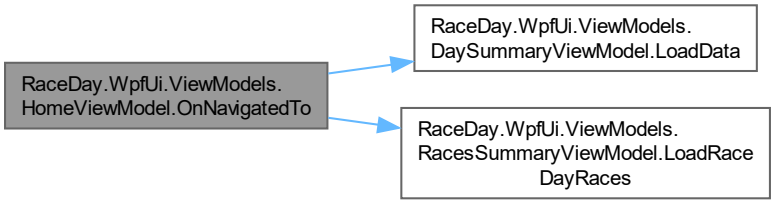
5.28.3.1 OnNavigatedTo()

```
void RaceDay.WpfUi.ViewModels.HomeViewModel.OnNavigatedTo ( )
```

Called when the view model is navigated to.

Implements RaceDay.WpfUi.Interfaces.INavigableViewModel.

Here is the call graph for this function:



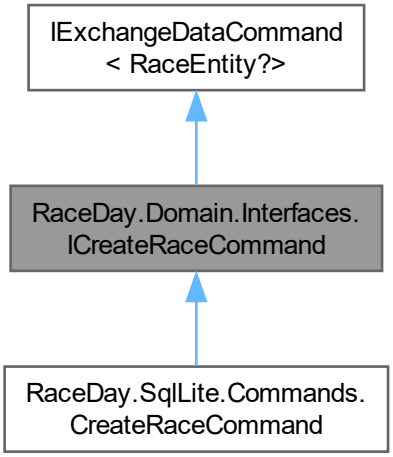
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/ViewModels/HomeViewModel.cs

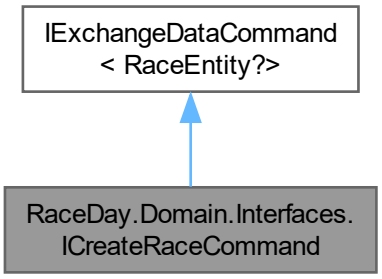
5.29 RaceDay.Domain.Interfaces.ICreateRaceCommand Interface Reference

A command for creating Race.

Inheritance diagram for RaceDay.Domain.Interfaces.ICreateRaceCommand:



Collaboration diagram for RaceDay.Domain.Interfaces.ICreateRaceCommand:



Additional Inherited Members

Public Member Functions inherited from RaceDay.Domain.Interfaces.IExchangeDataCommand< RaceEntity?>

- T? Execute (T entity)

  Creates or Updates an entity and returns the new record.

5.29.1 Detailed Description

A command for creating Race.

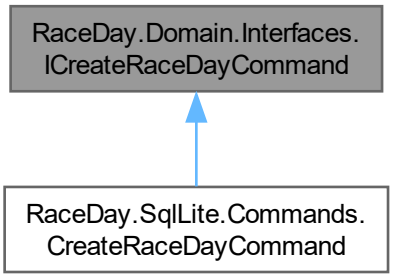
The documentation for this interface was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.Domain/Interfaces/ICreateRaceCommand.cs

5.30 RaceDay.Domain.Interfaces.ICreateRaceDayCommand Interface Reference

A command for creating Race Day.

Inheritance diagram for RaceDay.Domain.Interfaces.ICreateRaceDayCommand:



Public Member Functions

- DayEntity? Execute (DayEntity entity)

  Creates a new Race Day record and returns the new record.

5.30.1 Detailed Description

A command for creating Race Day.

5.30.2 Member Function Documentation

5.30.2.1 Execute()

```
DayEntity?  RaceDay.Domain.Interfaces.ICreateRaceDayCommand.Execute (
             DayEntity entity )
```

Creates a new Race Day record and returns the new record.

Parameters

entity	Record to create

Implemented in RaceDay.SqlLite.Commands.CreateRaceDayCommand.

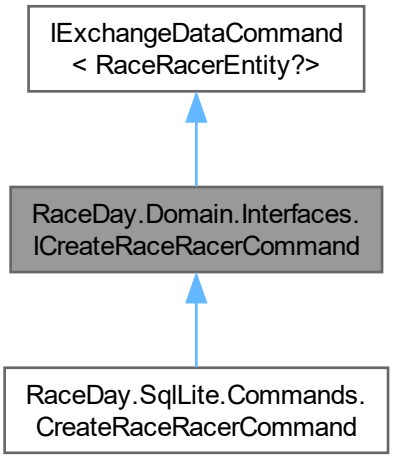
The documentation for this interface was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.Domain/Interfaces/ICreateRaceDayCommand.cs

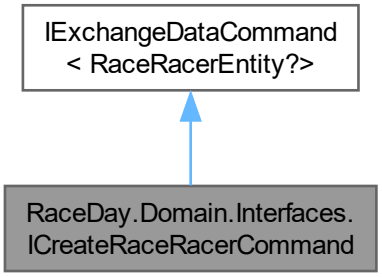
5.31 RaceDay.Domain.Interfaces.ICreateRaceRacerCommand Interface Reference

A command for creating Racer for a Race.

Inheritance diagram for RaceDay.Domain.Interfaces.ICreateRaceRacerCommand:



Collaboration diagram for RaceDay.Domain.Interfaces.ICreateRaceRacerCommand:



Additional Inherited Members

Public Member Functions inherited from RaceDay.Domain.Interfaces.IExchangeDataCommand< RaceRacerEntity?>

- T? Execute (T entity)

  Creates or Updates an entity and returns the new record.

5.31.1 Detailed Description

A command for creating Racer for a Race.

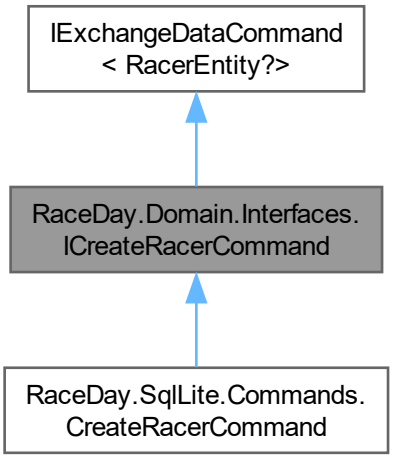
The documentation for this interface was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.Domain/Interfaces/ICreateRaceRacerCommand.cs

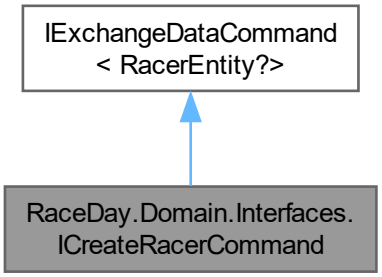
5.32 RaceDay.Domain.Interfaces.ICreateRacerCommand Interface Reference

A command for creating Racer.

Inheritance diagram for RaceDay.Domain.Interfaces.ICreateRacerCommand:



Collaboration diagram for RaceDay.Domain.Interfaces.ICreateRacerCommand:



Additional Inherited Members

Public Member Functions inherited from RaceDay.Domain.Interfaces.IExchangeDataCommand< RacerEntity?>

- T? Execute (T entity)

  Creates or Updates an entity and returns the new record.

5.32.1 Detailed Description

A command for creating Racer.

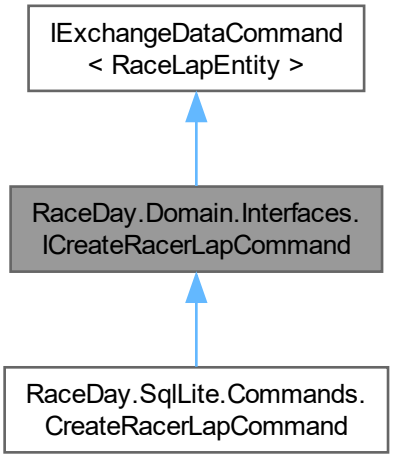
The documentation for this interface was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.Domain/Interfaces/ICreateRacerCommand.cs

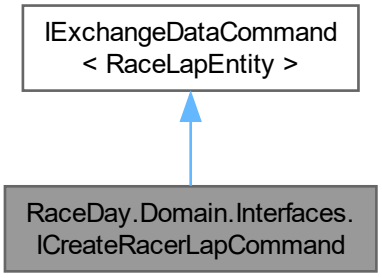
5.33 RaceDay.Domain.Interfaces.ICreateRacerLapCommand Interface Reference

A command for creating Lap for a Racer.

Inheritance diagram for RaceDay.Domain.Interfaces.ICreateRacerLapCommand:



Collaboration diagram for RaceDay.Domain.Interfaces.ICreateRacerLapCommand:



Additional Inherited Members

Public Member Functions inherited from RaceDay.Domain.Interfaces.IExchangeDataCommand< RaceLapEntity >

- T? Execute (T entity)

  Creates or Updates an entity and returns the new record.

5.33.1 Detailed Description

A command for creating Lap for a Racer.

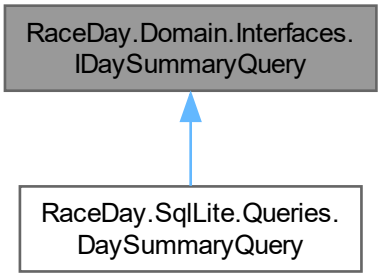
The documentation for this interface was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.Domain/Interfaces/ICreateRacerLapCommand.cs

5.34 RaceDay.Domain.Interfaces.IDaySummaryQuery Interface Reference

A query for getting Day Summaries.

Inheritance diagram for RaceDay.Domain.Interfaces.IDaySummaryQuery:



Public Member Functions

- IEnumerable< DaySummaryDto > GetAll ()
  Gets all Day Summaries.
- DaySummaryDto? GetById (int id)
  Gets a Day Summary by Id.

5.34.1 Detailed Description

A query for getting Day Summaries.

5.34.2 Member Function Documentation

5.34.2.1 GetAll()

```
IEnumerable< DaySummaryDto > RaceDay.Domain.Interfaces.IDaySummaryQuery.GetAll ( )
```

Gets all Day Summaries.

Implemented in RaceDay.SqlLite.Queries.DaySummaryQuery.

5.34.2.2 GetById()

```
DaySummaryDto?  RaceDay.Domain.Interfaces.IDaySummaryQuery.GetById (
            int id )
```

Gets a Day Summary by Id.

Parameters

id	Id of the Day Summary to get

Returns

Day Summary with the given Id or null

Implemented in RaceDay.SqlLite.Queries.DaySummaryQuery.

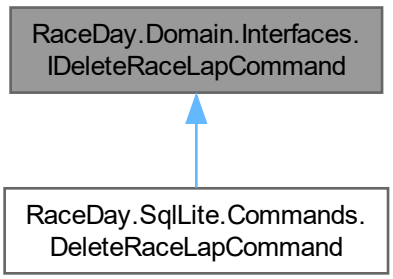
The documentation for this interface was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.Domain/Interfaces/IDaySummaryQuery.cs

5.35 RaceDay.Domain.Interfaces.IDeleteRaceLapCommand Interface Reference

A command for deleting a Lap for a Racer.

Inheritance diagram for RaceDay.Domain.Interfaces.IDeleteRaceLapCommand:



Public Member Functions

- bool Execute (int raceLapId)

  Deletes the lap for racer.

5.35.1 Detailed Description

A command for deleting a Lap for a Racer.

5.35.2 Member Function Documentation

5.35.2.1 Execute()

```
bool RaceDay.Domain.Interfaces.IDeleteRaceLapCommand.Execute (
            int raceLapId )
```

Deletes the lap for racer.

Parameters

raceLapId	Id of the lap to delete

Returns

True if the lap was deleted, false if not

Implemented in RaceDay.SqlLite.Commands.DeleteRaceLapCommand.

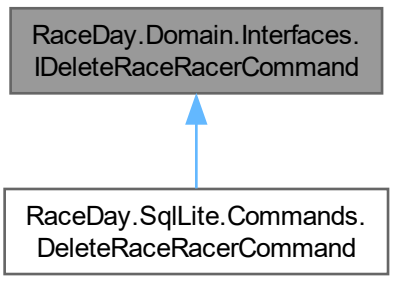
The documentation for this interface was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.Domain/Interfaces/IDeleteRaceLapCommand.cs

5.36 RaceDay.Domain.Interfaces.IDeleteRaceRacerCommand Interface Reference

A command for deleting a Racer from the Race.

Inheritance diagram for RaceDay.Domain.Interfaces.IDeleteRaceRacerCommand:



Public Member Functions

- bool Execute (int raceId, int racerId)

  Deletes racer from race.

5.36.1 Detailed Description

A command for deleting a Racer from the Race.

5.36.2 Member Function Documentation

5.36.2.1 Execute()

```
bool RaceDay.Domain.Interfaces.IDeleteRaceRacerCommand.Execute (
            int raceId,
            int racerId )
```

Deletes racer from race.

Parameters

raceId	The Race Id to remove the racer from
racerId	The Racer Id to be removed

Returns

True if the racer was deleted, false if not

Exceptions

Exception	Throws if laps remain for racer

Implemented in RaceDay.SqlLite.Commands.DeleteRaceRacerCommand.

The documentation for this interface was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.Domain/Interfaces/IDeleteRaceRacerCommand.cs

5.37 RaceDay.Domain.Interfaces.IExchangeDataCommand< T > Interface Template Reference

A command for creating or updating an entity.

Public Member Functions

- T? Execute (T entity)

  Creates or Updates an entity and returns the new record.

5.37.1 Detailed Description

A command for creating or updating an entity.

Template Parameters

T	The type of entity to create or update

5.37.2 Member Function Documentation

5.37.2.1 Execute()

```
T? RaceDay.Domain.Interfaces.IExchangeDataCommand< T >.Execute (
            T entity )
```

Creates or Updates an entity and returns the new record.

Parameters

entity	Record to create or update

Returns

The created or updated entity

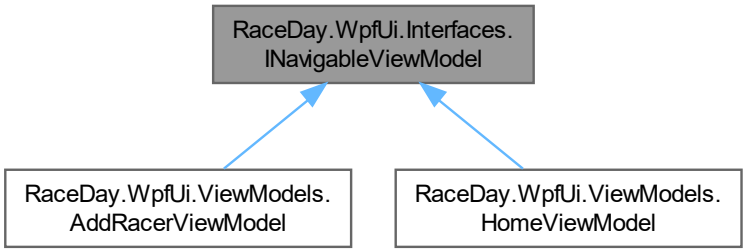
The documentation for this interface was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.Domain/Interfaces/IExchangeDataCommand.cs

5.38 RaceDay.WpfUi.Interfaces.INavigableViewModel Interface Reference

Interface for view models that need to be notified when navigated to.

Inheritance diagram for RaceDay.WpfUi.Interfaces.INavigableViewModel:



Public Member Functions

- void OnNavigatedTo ()

  Called when the view model is navigated to.

5.38.1 Detailed Description

Interface for view models that need to be notified when navigated to.

5.38.2 Member Function Documentation

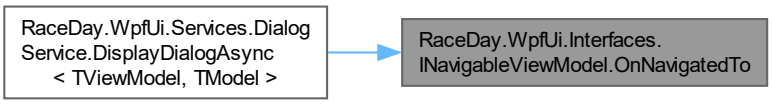
5.38.2.1 OnNavigatedTo()

```
void RaceDay.WpfUi.Interfaces.INavigableViewModel.OnNavigatedTo ( )
```

Called when the view model is navigated to.

Implemented in RaceDay.WpfUi.ViewModels.AddRacerViewModel, and RaceDay.WpfUi.ViewModels.HomeViewModel.

Here is the caller graph for this function:



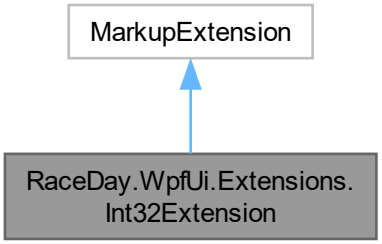
The documentation for this interface was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Interfaces/INavigableViewModel.cs

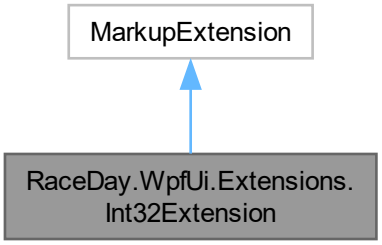
5.39 RaceDay.WpfUi.Extensions.Int32Extension Class Reference

Markup extension to allow for int32 values in xaml.

Inheritance diagram for RaceDay.WpfUi.Extensions.Int32Extension:



Collaboration diagram for RaceDay.WpfUi.Extensions.Int32Extension:



Public Member Functions

- Int32Extension (int value)

  Initializes a new instance of the Int32Extension class.
- override object ProvideValue (IServiceProvider sp)

  Returns an object that is provided as the value of the target property for this markup extension.

Properties

- int **Value** `[get, set]`

  Gets or sets the value.

5.39.1 Detailed Description

Markup extension to allow for int32 values in xaml.

5.39.2 Constructor & Destructor Documentation

5.39.2.1 Int32Extension()

```
RaceDay.WpfUi.Extensions.Int32Extension.Int32Extension (
            int value )
```

Initializes a new instance of the Int32Extension class.

Parameters

value	The value.

5.39.3 Member Function Documentation

5.39.3.1 ProvideValue()

```
override object RaceDay.WpfUi.Extensions.Int32Extension.ProvideValue (
            IServiceProvider sp )
```

Returns an object that is provided as the value of the target property for this markup extension.

Parameters

sp	Object that can provide services for the markup extension.

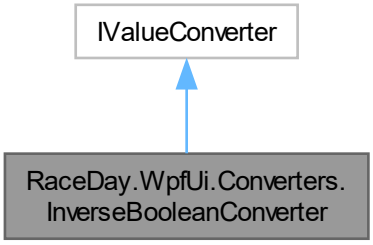
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Extensions/Int32Extension.cs

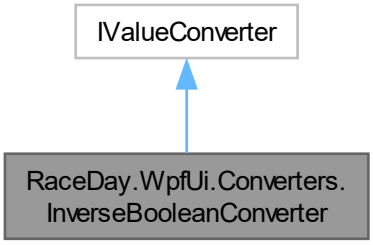
5.40 RaceDay.WpfUi.Converters.InverseBooleanConverter Class Reference

Converts a boolean to its inverse.

Inheritance diagram for RaceDay.WpfUi.Converters.InverseBooleanConverter:



Collaboration diagram for RaceDay.WpfUi.Converters.InverseBooleanConverter:



Public Member Functions

- object **Convert** (object value, Type targetType, object parameter, CultureInfo culture)
- object **ConvertBack** (object value, Type targetType, object parameter, CultureInfo culture)

5.40.1 Detailed Description

Converts a boolean to its inverse.

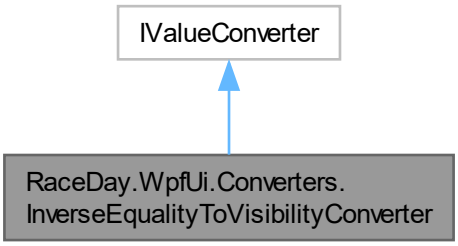
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Converters/InverseBooleanConverter.cs

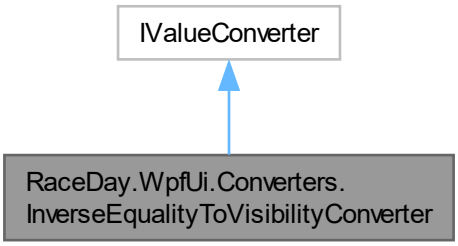
5.41 RaceDay.WpfUi.Converters.InverseEqualityToVisibilityConverter Class Reference

Converts a value to a visibility If the value equals the parameter, then collapsed, otherwise visible.

Inheritance diagram for RaceDay.WpfUi.Converters.InverseEqualityToVisibilityConverter:



Collaboration diagram for RaceDay.WpfUi.Converters.InverseEqualityToVisibilityConverter:



Public Member Functions

- object **Convert** (object? value, Type targetType, object parameter, CultureInfo culture)
- object **ConvertBack** (object value, Type targetType, object parameter, CultureInfo culture)

5.41.1 Detailed Description

Converts a value to a visibility If the value equals the parameter, then collapsed, otherwise visible.

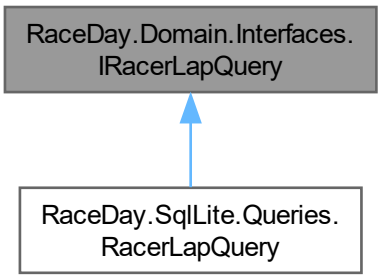
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Converters/InverseEqualityToVisibilityConverter.cs

5.42 RaceDay.Domain.Interfaces.IRacerLapQuery Interface Reference

A query to retrieve Laps for a Racer.

Inheritance diagram for RaceDay.Domain.Interfaces.IRacerLapQuery:



Public Member Functions

- IEnumerable< RaceLapDto > GetLapsForRacerInRace (int raceId, int racerId)
  Gets all Laps for Racer in Race.

5.42.1 Detailed Description

A query to retrieve Laps for a Racer.

5.42.2 Member Function Documentation

5.42.2.1 GetLapsForRacerInRace()

```
IEnumerable< RaceLapDto > RaceDay.Domain.Interfaces.IRacerLapQuery.GetLapsForRacerInRace (
            int raceId,
            int racerId )
```

Gets all Laps for Racer in Race.

Parameters

raceId	The Race Id
racer↩ Id	The Racer Id

Implemented in RaceDay.SqlLite.Queries.RacerLapQuery.

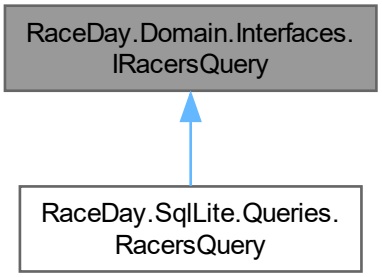
The documentation for this interface was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.Domain/Interfaces/IRacerLapQuery.cs

5.43 RaceDay.Domain.Interfaces.IRacersQuery Interface Reference

A query for getting Racers.

Inheritance diagram for RaceDay.Domain.Interfaces.IRacersQuery:



Public Member Functions

- IEnumerable< RacerDto > GetAll ()
  Gets all Racers.
- IEnumerable< RacerDto > GetRacersForRace (int raceId)
  Gets all Racers for Race.

5.43.1 Detailed Description

A query for getting Racers.

5.43.2 Member Function Documentation

5.43.2.1 GetAll()

```
IEnumerable< RacerDto > RaceDay.Domain.Interfaces.IRacersQuery.GetAll ( )
```

Gets all Racers.

Implemented in RaceDay.SqlLite.Queries.RacersQuery.

5.43.2.2 GetRacersForRace()

```
IEnumerable< RacerDto > RaceDay.Domain.Interfaces.IRacersQuery.GetRacersForRace (
            int raceId )
```

Gets all Racers for Race.

Parameters

raceId	The Race Id

Implemented in RaceDay.SqlLite.Queries.RacersQuery.

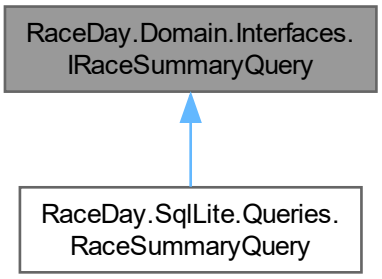
The documentation for this interface was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.Domain/Interfaces/IRacersQuery.cs

5.44 RaceDay.Domain.Interfaces.IRaceSummaryQuery Interface Reference

A query for Race summary.

Inheritance diagram for RaceDay.Domain.Interfaces.IRaceSummaryQuery:



Public Member Functions

- IEnumerable< RaceSummaryDto > GetAll (int raceDayId)
  Gets all Races for Race Day summaries.
- RaceSummaryDto? GetById (int id)
  Gets summary for a specific Race.

5.44.1 Detailed Description

A query for Race summary.

5.44.2 Member Function Documentation

5.44.2.1 GetAll()

```
IEnumerable< RaceSummaryDto > RaceDay.Domain.Interfaces.IRaceSummaryQuery.GetAll (
            int raceDayId )
```

Gets all Races for Race Day summaries.

Parameters

raceDayId	The Race Day id

Implemented in RaceDay.SqlLite.Queries.RaceSummaryQuery.

5.44.2.2 GetById()

```
RaceSummaryDto?  RaceDay.Domain.Interfaces.IRaceSummaryQuery.GetById (
            int id )
```

Gets summary for a specific Race.

Parameters

id	The Race Id

Implemented in RaceDay.SqlLite.Queries.RaceSummaryQuery.

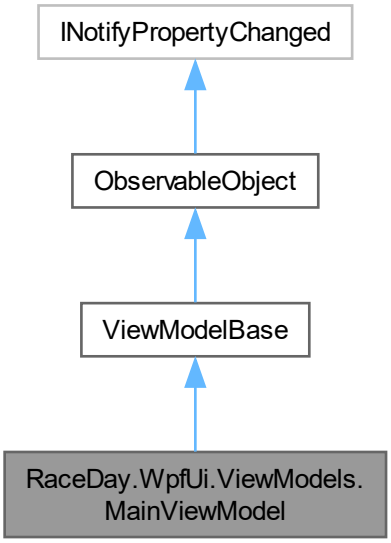
The documentation for this interface was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.Domain/Interfaces/IRaceSummaryQuery.cs

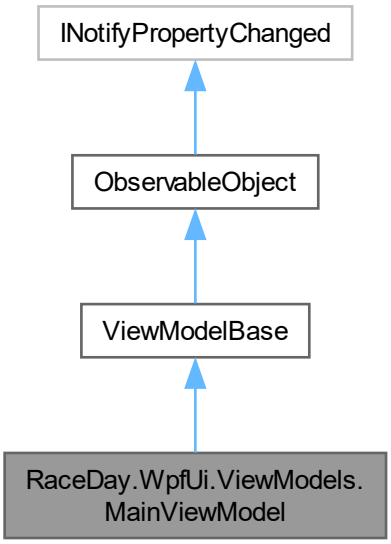
5.45 RaceDay.WpfUi.ViewModels.MainViewModel Class Reference

A view model providing data and logic for the Main view.

Inheritance diagram for RaceDay.WpfUi.ViewModels.MainViewModel:



Collaboration diagram for RaceDay.WpfUi.ViewModels.MainViewModel:



Public Member Functions

- MainViewModel (NavigationService navigationService, DialogService dialogService)

  Creates a new instance of the MainViewModel class.

Properties

- NavigationService **NavigationService** `[get]`

  The navigation service, responsible for navigating between views.
- DialogService **DialogService** `[get]`

  The dialog service, responsible for displaying dialogs.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.45.1 Detailed Description

A view model providing data and logic for the Main view.

5.45.2 Constructor & Destructor Documentation

5.45.2.1 MainViewModel()

```
RaceDay.WpfUi.ViewModels.MainViewModel.MainViewModel (
            NavigationService navigationService,
            DialogService dialogService )
```

Creates a new instance of the MainViewModel class.

Parameters

navigationService	The navigation service, responsible for navigating between views
dialogService	The dialog service, responsible for displaying dialogs

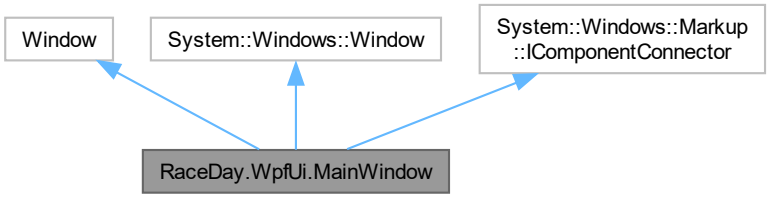
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/ViewModels/MainViewModel.cs

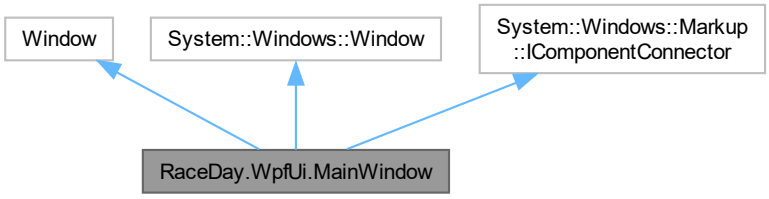
5.46 RaceDay.WpfUi.MainWindow Class Reference

Interaction logic for MainWindow.xaml.

Inheritance diagram for RaceDay.WpfUi.MainWindow:



Collaboration diagram for RaceDay.WpfUi.MainWindow:



Public Member Functions

- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.

5.46.1 Detailed Description

Interaction logic for MainWindow.xaml.

MainWindow.

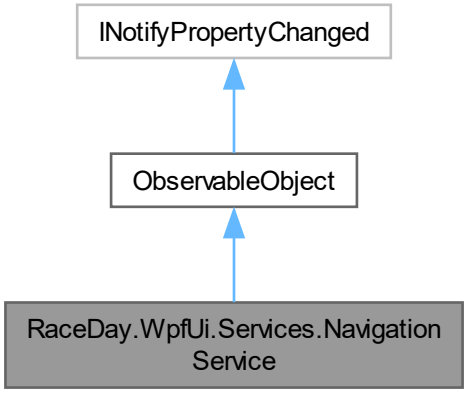
The documentation for this class was generated from the following files:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/MainWindow.xaml.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/MainWindow.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/MainWindow.g.i.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Release/net6.0-windows/MainWindow.g.cs

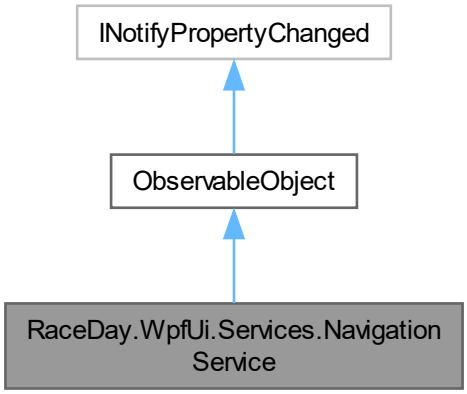
5.47 RaceDay.WpfUi.Services.NavigationService Class Reference

Service for navigating between views in the application.

Inheritance diagram for RaceDay.WpfUi.Services.NavigationService:



Collaboration diagram for RaceDay.WpfUi.Services.NavigationService:



Public Member Functions

- NavigationService (IServiceProvider serviceProvider)

  Creates a new instance of the NavigationService class.
- void NavigateTo< T > ()

  Navigates to the specified view model.
- void NavigateTo (ViewModelBase viewModel)

  Navigates to the specified view model.

Properties

- ViewModelBase? **ActiveViewModel** `[get]`

  A view model currently displayed in the application.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.47.1 Detailed Description

Service for navigating between views in the application.

5.47.2 Constructor & Destructor Documentation

5.47.2.1 NavigationService()

```
RaceDay.WpfUi.Services.NavigationService.NavigationService (
            IServiceProvider serviceProvider )
```

Creates a new instance of the NavigationService class.

Parameters

serviceProvider	The service provider

5.47.3 Member Function Documentation

5.47.3.1 NavigateTo()

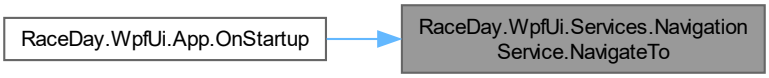
```
void RaceDay.WpfUi.Services.NavigationService.NavigateTo (
            ViewModelBase viewModel )
```

Navigates to the specified view model.

Parameters

viewModel	The view model.

Here is the caller graph for this function:



5.47.3.2 NavigateTo< T >()

```
void RaceDay.WpfUi.Services.NavigationService.NavigateTo< T > ( )
```

Navigates to the specified view model.

Template Parameters

T	The type of the view model.

Type Constraints

T* : *ViewModelBase

T* : *INavigableViewModel

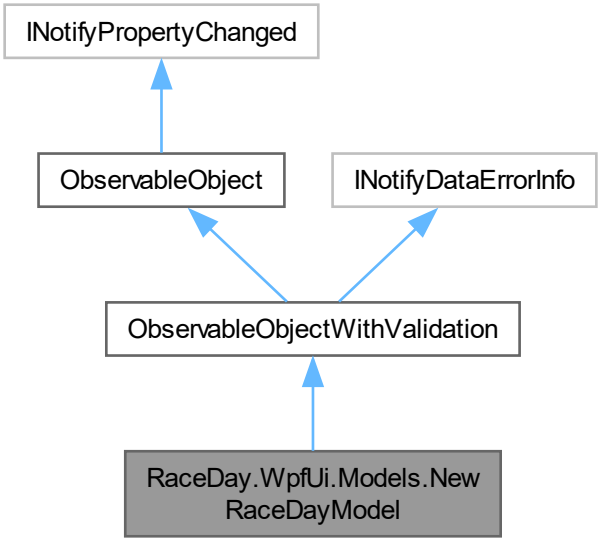
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Services/NavigationService.cs

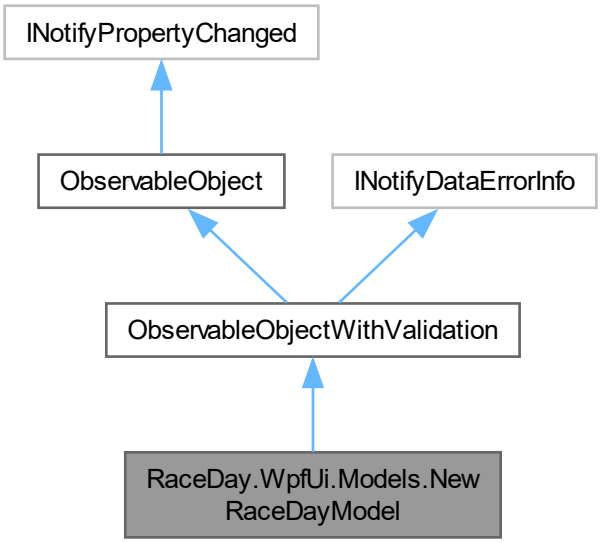
5.48 RaceDay.WpfUi.Models.NewRaceDayModel Class Reference

A model for creating new Race Days.

Inheritance diagram for RaceDay.WpfUi.Models.NewRaceDayModel:



Collaboration diagram for RaceDay.WpfUi.Models.NewRaceDayModel:



Properties

- string? **Name** `[get, set]`

The name of the race day.

- float? **SignUpFee** `[get, set]`

  The sign up fee.

- float? **LapDistance** `[get, set]`

  The Lap distance in kilometers.

- float? **PetrolCostPerLap** `[get, set]`

  The estimated petrol cost per lap.

- bool **HasAllRequiredData** `[get]`

  Indicates whether the model has all the required data.

Properties inherited from RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation

- bool **HasErrors** `[get]`
- bool **ForceInitialErrorState** `[get, set]`

  This property is used to force the initial error state of the object, before any property has been set. This is useful for when you want to show the error state of the object before the user has interacted with it. For example, when a dialog is opened, you may want to force the error state to set the CanExecute state of a command.

Additional Inherited Members

Public Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation

- IEnumerable **GetErrors** (string? propertyName)

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation

- override bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Parameters

field	*A reference to the field to set.*
value	*The value to set the field to.*
propertyName	*Name of the property.*

Template Parameters

T	*The type of the field.*

Returns

True if the value has changed, false otherwise.

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

Raises the PropertyChanged event.

- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation

- EventHandler< DataErrorsChangedEventArgs >? **ErrorsChanged**

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.48.1 Detailed Description

A model for creating new Race Days.

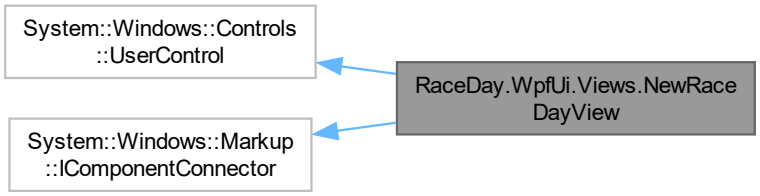
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Models/NewRaceDayModel.cs

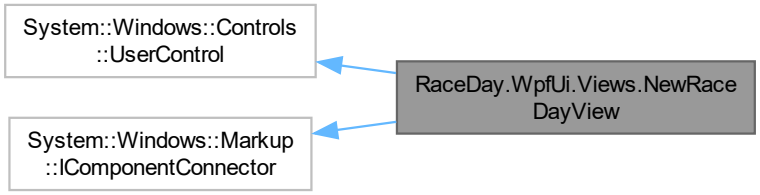
5.49 RaceDay.WpfUi.Views.NewRaceDayView Class Reference

NewRaceDayView.

Inheritance diagram for RaceDay.WpfUi.Views.NewRaceDayView:



Collaboration diagram for RaceDay.WpfUi.Views.NewRaceDayView:



Public Member Functions

- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.

5.49.1 Detailed Description

NewRaceDayView.

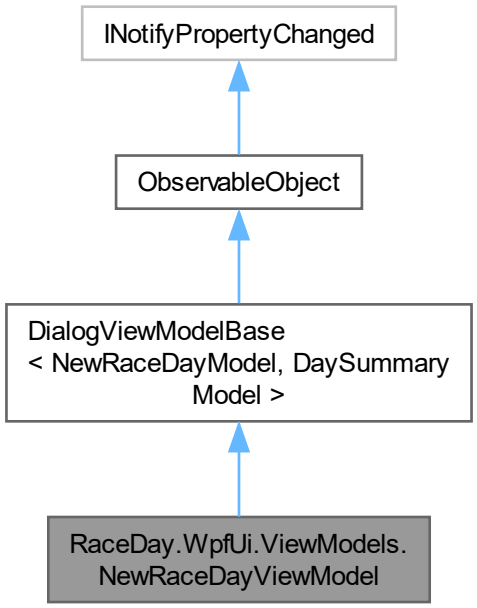
The documentation for this class was generated from the following files:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/NewRaceDayView.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/NewRaceDayView.g.↩ i.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Release/net6.0-windows/Views/NewRaceDayView.↩ g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Views/NewRaceDayView.xaml.cs

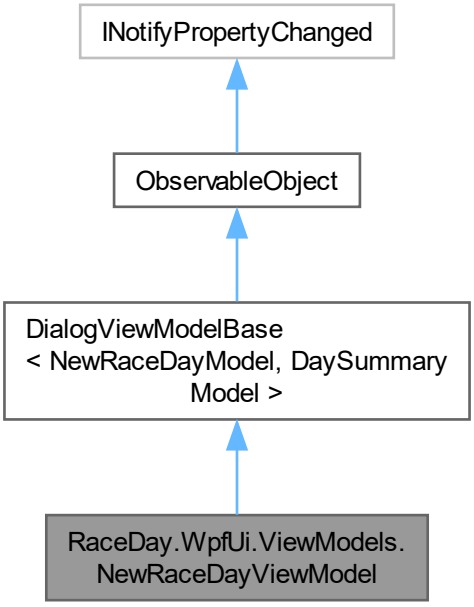
5.50 RaceDay.WpfUi.ViewModels.NewRaceDayViewModel Class Reference

A view model providing data and logic for view for creating new Race Days.

Inheritance diagram for RaceDay.WpfUi.ViewModels.NewRaceDayViewModel:



Collaboration diagram for RaceDay.WpfUi.ViewModels.NewRaceDayViewModel:



Public Member Functions

- NewRaceDayViewModel (ICreateRaceDayCommand createRaceDayCommand, IDaySummaryQuery daySummaryQuery)

  Creates a new instance of the NewRaceDayViewModel class.

Public Member Functions inherited from RaceDay.WpfUi.Infrastructure.DialogViewModelBase< NewRaceDayModel, DaySummaryModel >

- void **OpenDialog** ()

  Opens the dialog.
- void **CloseDialog** (object? o=null)

  Closes the dialog.

Properties

- NewRaceDayModel **NewRaceDay** `[get]`

  A model representing a new Race Day.
- ICommand **CancelCommand** `[get]`

  A command for cancelling the operation.
- ICommand **SaveCommand** `[get]`

  A command for saving data to the persistence storage.

Properties inherited from RaceDay.WpfUi.Infrastructure.DialogViewModelBase< NewRaceDayModel, DaySummaryModel >

- string **ErrorMessage** `[get, protected set]`

  The error message to display in the dialog.
- bool **DisplayError** `[get]`

  Whether or not to display the error message in the dialog.
- bool **DialogHostIsOpen** `[get]`

  Indicates whether or not the dialog is open. This is used to bind to the DialogHost.IsOpen property. Dialog closes when this is set to false.
- virtual ? DialogClosingEventHandler **DialogClosingHandler** `[get, set]`

  The dialog closing handler. This is used to bind to the DialogHost.DialogClosing attached property. This can be used to prevent the dialog from closing or implement custom logic when the dialog closes.
- TModel Model `[get, set]`

  The result that is returned when the dialog closes. If no value is set, the dialog is assumed to have been cancelled.
- TResult? **Result** `[get, set]`

  The result that is returned when the dialog closes. If no value is set, the dialog is assumed to have been cancelled.

Additional Inherited Members

Static Public Member Functions inherited from RaceDay.WpfUi.Infrastructure.DialogViewModelBase< NewRaceDayModel, DaySummaryModel >

- static bool **CanCloseDialog** (object? o)

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.50.1 Detailed Description

A view model providing data and logic for view for creating new Race Days.

5.50.2 Constructor & Destructor Documentation

5.50.2.1 NewRaceDayViewModel()

```
RaceDay.WpfUi.ViewModels.NewRaceDayViewModel.NewRaceDayViewModel (
            ICreateRaceDayCommand createRaceDayCommand,
            IDaySummaryQuery daySummaryQuery )
```

Creates a new instance of the NewRaceDayViewModel class.

Parameters

createRaceDayCommand	A command for creating new Race Day in the persistence storage
daySummaryQuery	A query for retrieving Race Day summaries from the persistence storage

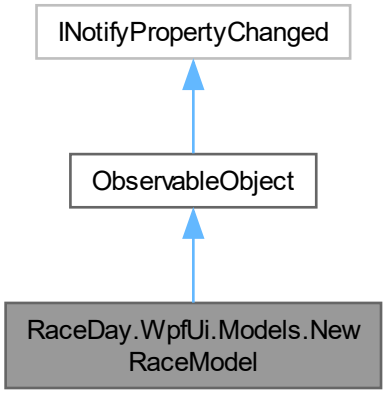
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/ViewModels/NewRaceDayViewModel.cs

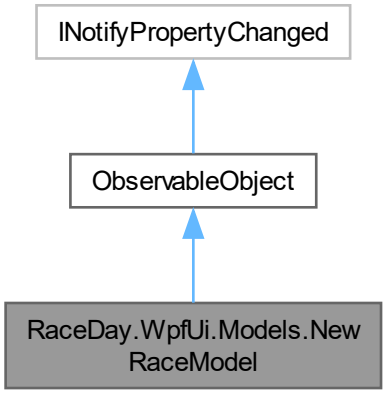
5.51 RaceDay.WpfUi.Models.NewRaceModel Class Reference

Model for creating new Races.

Inheritance diagram for RaceDay.WpfUi.Models.NewRaceModel:



Collaboration diagram for RaceDay.WpfUi.Models.NewRaceModel:



Properties

- int **RaceDayId** `[get]`

  The Id of the Race Day for which new Race is being created.
- string? **RaceDayName** `[get]`

  The name of the Race Day.
- DateTime **RaceDate** `[get, set]`

  The date of the Race.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.51.1 Detailed Description

Model for creating new Races.

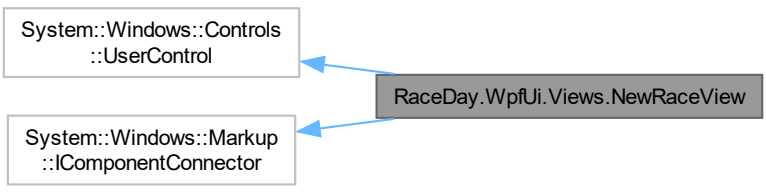
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Models/NewRaceModel.cs

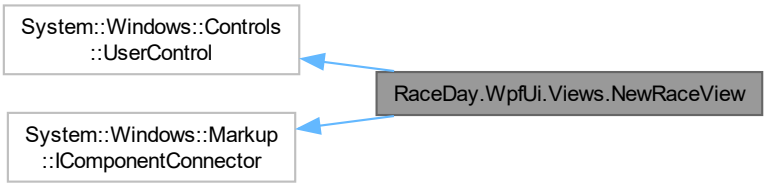
5.52 RaceDay.WpfUi.Views.NewRaceView Class Reference

NewRaceView.

Inheritance diagram for RaceDay.WpfUi.Views.NewRaceView:



Collaboration diagram for RaceDay.WpfUi.Views.NewRaceView:



Public Member Functions

- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.

5.52.1 Detailed Description

NewRaceView.

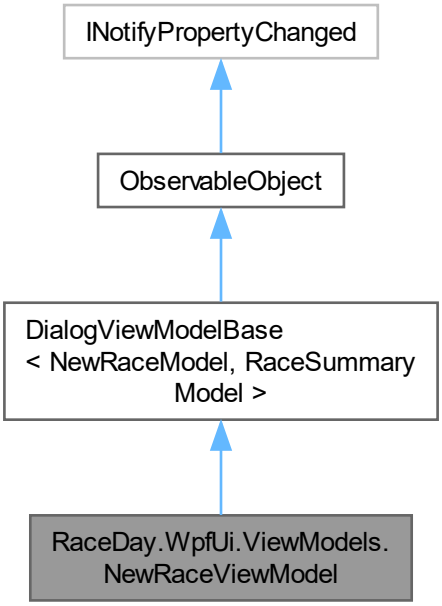
The documentation for this class was generated from the following files:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/NewRaceView.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/NewRaceView.g.i.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Release/net6.0-windows/Views/NewRaceView.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Views/NewRaceView.xaml.cs

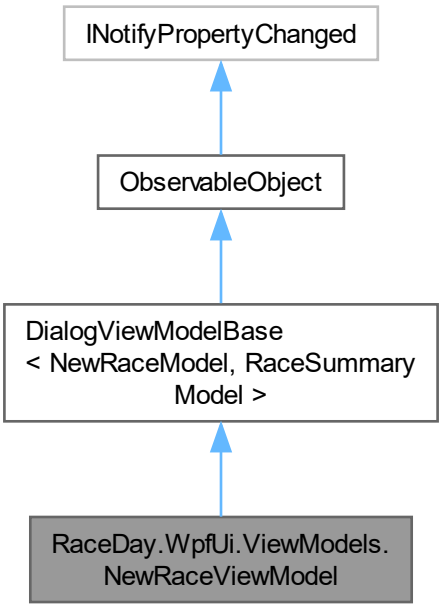
5.53 RaceDay.WpfUi.ViewModels.NewRaceViewModel Class Reference

A view model providing data and logic for a view for creating new Races.

Inheritance diagram for RaceDay.WpfUi.ViewModels.NewRaceViewModel:



Collaboration diagram for RaceDay.WpfUi.ViewModels.NewRaceViewModel:



Public Member Functions

- NewRaceViewModel (ICreateRaceCommand createRaceDayRaceCommand, IRaceSummaryQuery raceSummaryQuery)

  Creates a new instance of the NewRaceViewModel class.

Public Member Functions inherited from RaceDay.WpfUi.Infrastructure.DialogViewModelBase< NewRaceModel, RaceSummaryModel >

- void **OpenDialog** ()

  Opens the dialog.
- void **CloseDialog** (object? o=null)

  Closes the dialog.

Properties

- string **ViewTitle** `[get]`

  The title of the view.
- ICommand **ConfirmCommand** `[get]`

  Command for confirming the operation.
- ICommand **CancelCommand** `[get]`

  Command for cancelling the operation.

Properties inherited from RaceDay.WpfUi.Infrastructure.DialogViewModelBase< NewRaceModel, RaceSummaryModel >

- string **ErrorMessage** `[get, protected set]`

  The error message to display in the dialog.
- bool **DisplayError** `[get]`

  Whether or not to display the error message in the dialog.
- bool **DialogHostIsOpen** `[get]`

  Indicates whether or not the dialog is open. This is used to bind to the DialogHost.IsOpen property. Dialog closes when this is set to false.
- virtual ? DialogClosingEventHandler **DialogClosingHandler** `[get, set]`

  The dialog closing handler. This is used to bind to the DialogHost.DialogClosing attached property. This can be used to prevent the dialog from closing or implement custom logic when the dialog closes.
- TModel Model `[get, set]`

  The result that is returned when the dialog closes. If no value is set, the dialog is assumed to have been cancelled.
- TResult? **Result** `[get, set]`

  The result that is returned when the dialog closes. If no value is set, the dialog is assumed to have been cancelled.

Additional Inherited Members

Static Public Member Functions inherited from RaceDay.WpfUi.Infrastructure.DialogViewModelBase< NewRaceModel, RaceSummaryModel >

- static bool **CanCloseDialog** (object? o)

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.53.1 Detailed Description

A view model providing data and logic for a view for creating new Races.

5.53.2 Constructor & Destructor Documentation

5.53.2.1 NewRaceViewModel()

```
RaceDay.WpfUi.ViewModels.NewRaceViewModel.NewRaceViewModel (
            ICreateRaceCommand createRaceDayRaceCommand,
            IRaceSummaryQuery raceSummaryQuery )
```

Creates a new instance of the NewRaceViewModel class.

Parameters

createRaceDayRaceCommand	Command for creating new Races in the persistence storage
raceSummaryQuery	Query for retrieving Race summaries from the persistence storage

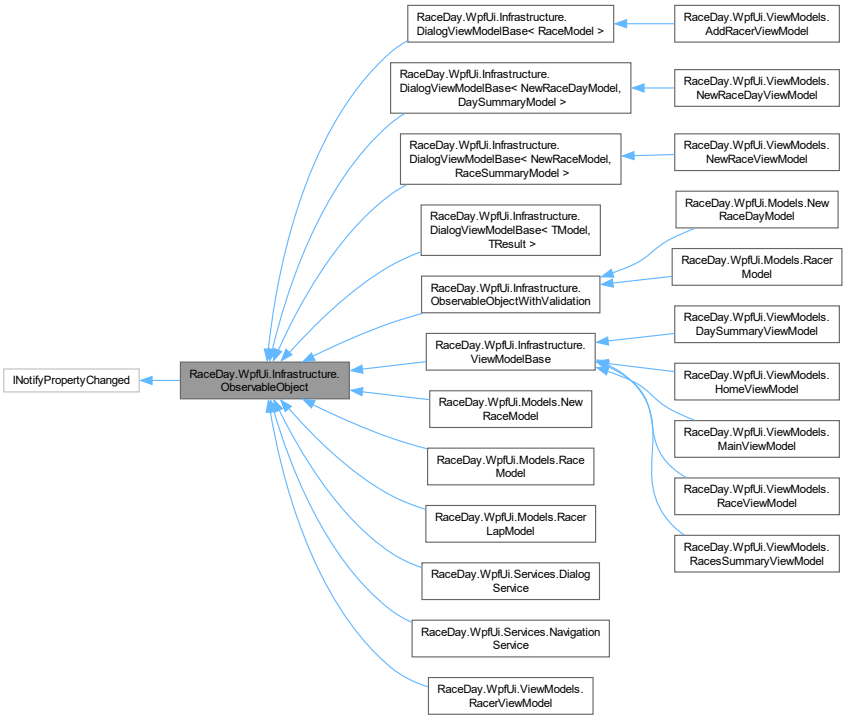
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/ViewModels/NewRaceViewModel.cs

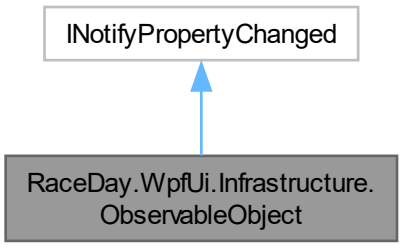
5.54 RaceDay.WpfUi.Infrastructure.ObservableObject Class Reference

Base class for observable objects Implements INotifyPropertyChanged

Inheritance diagram for RaceDay.WpfUi.Infrastructure.ObservableObject:



Collaboration diagram for RaceDay.WpfUi.Infrastructure.ObservableObject:



Protected Member Functions

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events

- PropertyChangedEventHandler? **PropertyChanged**

5.54.1 Detailed Description

Base class for observable objects Implements INotifyPropertyChanged

5.54.2 Member Function Documentation

5.54.2.1 OnPropertyChanged()

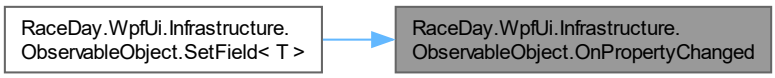
```
virtual void RaceDay.WpfUi.Infrastructure.ObservableObject.OnPropertyChanged (
            [CallerMemberName] string?  propertyName = null )  [protected], [virtual]
```

Raises the PropertyChanged event.

Parameters

propertyName	Name of the property.

Here is the caller graph for this function:



5.54.2.2 SetField< T >()

```
virtual bool RaceDay.WpfUi.Infrastructure.ObservableObject.SetField< T > (
            ref T field,
            T value,
            [CallerMemberName] string?  propertyName = null )  [protected], [virtual]
```

Sets the field and raises the PropertyChanged event if the value has changed.

Parameters

field	A reference to the field to set.
value	The value to set the field to.
propertyName	Name of the property.

Template Parameters

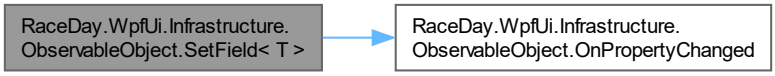
T	The type of the field.

Returns

True if the value has changed, false otherwise.

Reimplemented in RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation.

Here is the call graph for this function:



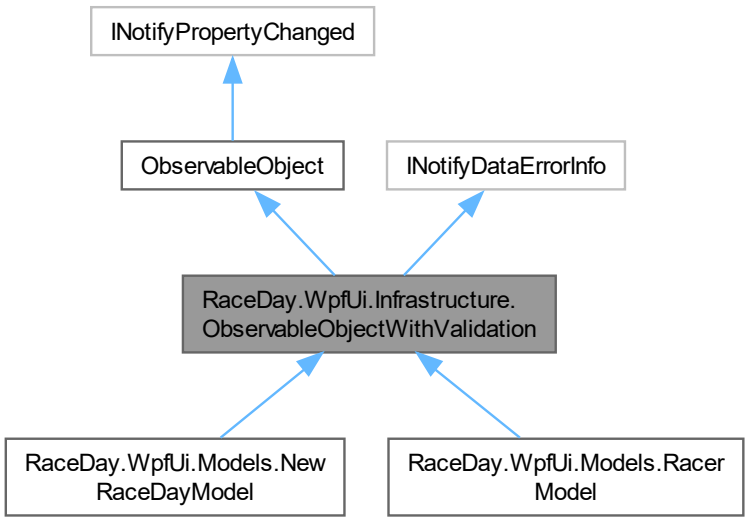
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Infrastructure/ObservableObject.cs

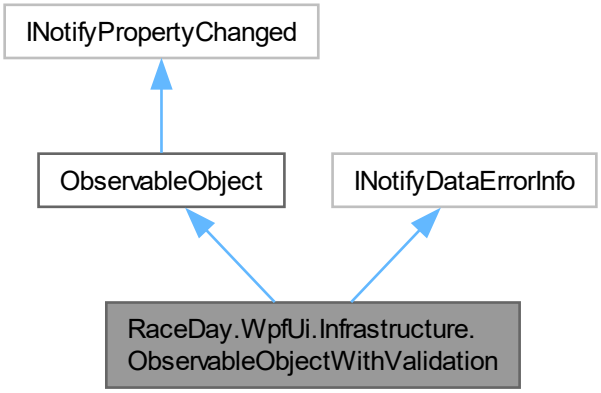
5.55 RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation Class Reference

Base class for observable objects with validation
Implements INotifyPropertyChanged
Implements INotifyDataErrorInfo

Inheritance diagram for RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation:



Collaboration diagram for RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation:



Public Member Functions

- IEnumerable **GetErrors** (string? propertyName)

Protected Member Functions

- override bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Parameters

field	*A reference to the field to set.*
value	*The value to set the field to.*
propertyName	*Name of the property.*

Template Parameters

T	*The type of the field.*

Returns

True if the value has changed, false otherwise.

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Properties

- bool **HasErrors** `[get]`
- bool **ForceInitialErrorState** `[get, set]`

  This property is used to force the initial error state of the object, before any property has been set. This is useful for when you want to show the error state of the object before the user has interacted with it. For example, when a dialog is opened, you may want to force the error state to set the CanExecute state of a command.

Events

- EventHandler< DataErrorsChangedEventArgs >? **ErrorsChanged**

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.55.1 Detailed Description

Base class for observable objects with validation
Implements INotifyPropertyChanged
Implements INotifyDataErrorInfo

5.55.2 Member Function Documentation

5.55.2.1 SetField< T >()

```
override bool RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation.SetField< T > (
            ref T field,
            T value,
            [CallerMemberName] string?  propertyName = null )  [protected], [virtual]
```

Sets the field and raises the PropertyChanged event if the value has changed.

Parameters

field	A reference to the field to set.
value	The value to set the field to.
propertyName	Name of the property.

Template Parameters

T	The type of the field.

Returns

True if the value has changed, false otherwise.

Reimplemented from RaceDay.WpfUi.Infrastructure.ObservableObject.

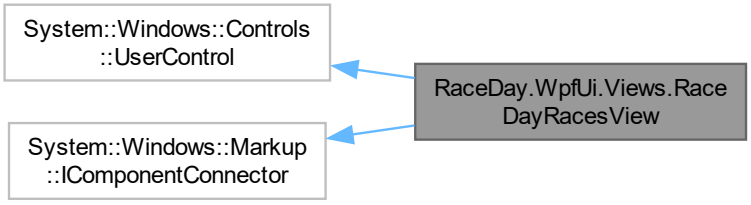
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Infrastructure/ObservableObjectWithValidation.cs

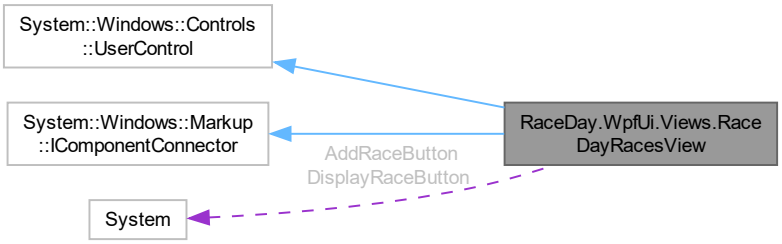
5.56 RaceDay.WpfUi.Views.RaceDayRacesView Class Reference

RaceDayRacesView.

Inheritance diagram for RaceDay.WpfUi.Views.RaceDayRacesView:



Collaboration diagram for RaceDay.WpfUi.Views.RaceDayRacesView:



Public Member Functions

- void **InitializeComponent** ()

  InitializeComponent.

5.56.1 Detailed Description

RaceDayRacesView.

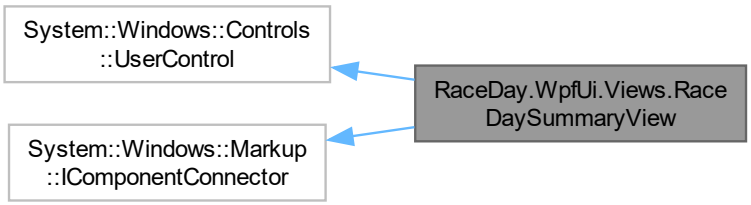
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/RaceDayRacesView.↩
g.i.cs

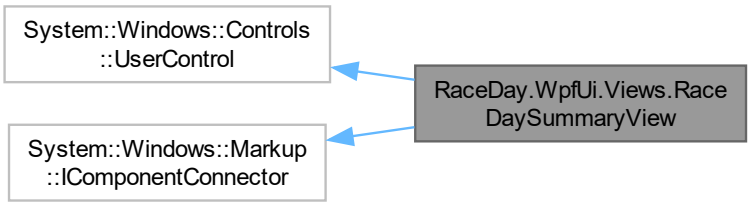
5.57 RaceDay.WpfUi.Views.RaceDaySummaryView Class Reference

RaceDaySummaryView.

Inheritance diagram for RaceDay.WpfUi.Views.RaceDaySummaryView:



Collaboration diagram for RaceDay.WpfUi.Views.RaceDaySummaryView:



Public Member Functions

- void **InitializeComponent** ()

  InitializeComponent.

5.57.1 Detailed Description

RaceDaySummaryView.

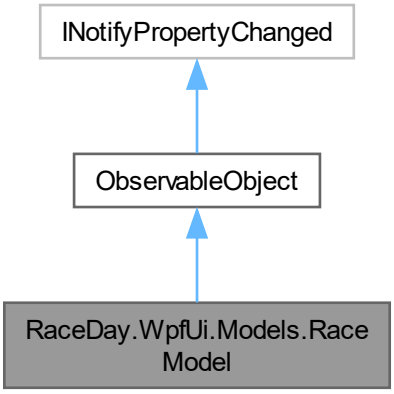
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/RaceDaySummary↩ View.g.i.cs

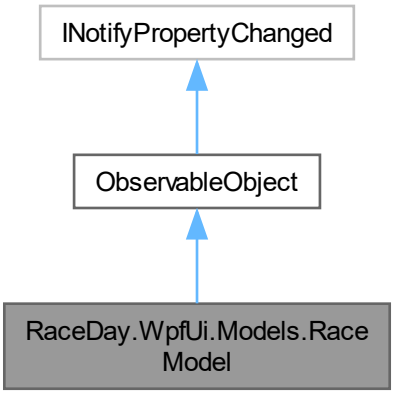
5.58 RaceDay.WpfUi.Models.RaceModel Class Reference

A model of the Race.

Inheritance diagram for RaceDay.WpfUi.Models.RaceModel:



Collaboration diagram for RaceDay.WpfUi.Models.RaceModel:



Properties

- int **RaceId** `[get]`

  The unique identifier of the Race.
- int **RaceDayId** `[get]`

The unique identifier of the Race Day.

- string? **RaceDayName** `[get]`

  The name of the Race Day.

- float **SignUpFee** `[get]`

  The Race Day sign up fee.

- float **LapDistanceMiles** `[get]`

  The Lap distance in kilometers.

- TimeSpan **AllTimeLapRecord** `[get]`

  The All Time Lap Record.

- TimeSpan **RaceLapRecord** `[get, set]`

  The record Lap Time of the Race.

- bool **IsRecordBeaten** `[get, set]`

  Indicates whether the AllTimeLapRecord has been beaten.

- float **PetrolCostPerLap** `[get]`

  The estimated petrol cost per lap.

- float **RaceProfit** `[get, set]`

  The total profit made from the race.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.

- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.58.1 Detailed Description

A model of the Race.

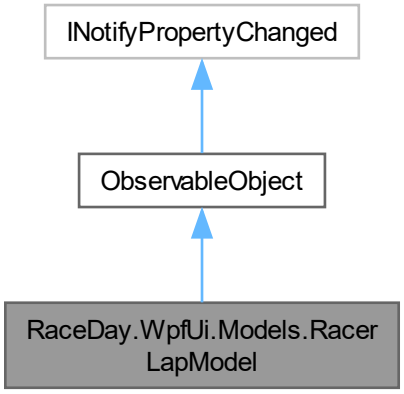
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Models/RaceModel.cs

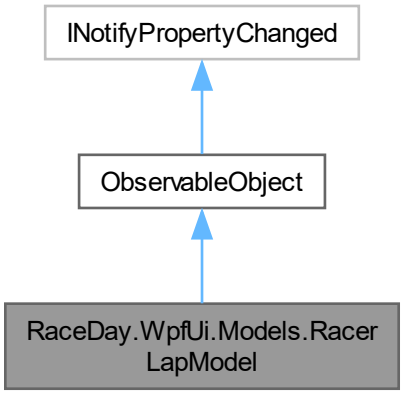
5.59 RaceDay.WpfUi.Models.RacerLapModel Class Reference

A model of the Racer Lap.

Inheritance diagram for RaceDay.WpfUi.Models.RacerLapModel:



Collaboration diagram for RaceDay.WpfUi.Models.RacerLapModel:



Properties

- int **LapId** `[get]`

  The unique identifier of the Racer Lap.
- int **RaceDayId** `[get]`

The unique identifier of the Race Day.

- int **RaceId** `[get]`

  The unique identifier of the Race.

- int **RacerId** `[get]`

  The unique identifier of the Racer.

- TimeSpan **LapTime** `[get, set]`

  The Lap time.

- float **LapDistanceMiles** `[get]`

  The Lap distance in miles.

- float **LapSpeedMph** `[get]`

  The Lap speed in miles per hour.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.

- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.59.1 Detailed Description

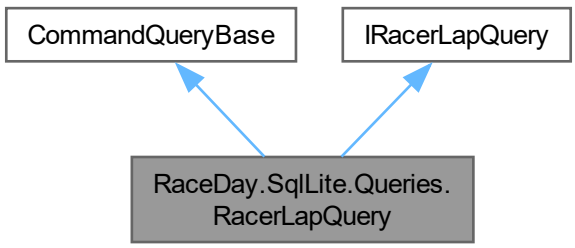
A model of the Racer Lap.

The documentation for this class was generated from the following file:

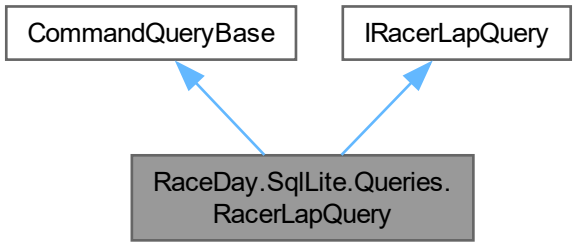
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Models/RacerLapModel.cs

5.60 RaceDay.SqlLite.Queries.RacerLapQuery Class Reference

Inheritance diagram for RaceDay.SqlLite.Queries.RacerLapQuery:



Collaboration diagram for RaceDay.SqlLite.Queries.RacerLapQuery:



Public Member Functions

- **RacerLapQuery** (string dbPath)
- IEnumerable< RaceLapDto > GetLapsForRacerInRace (int raceId, int racerId)

  Gets all Laps for Racer in Race.

- IEnumerable< RaceLapDto > GetLapsForRacerInRace (int raceId, int racerId)

  Gets all Laps for Racer in Race.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- CommandQueryBase (string dbPath)

  Creates a new instance of the CommandQueryBase class.
- SQLiteConnection **CreateConnection** ()

  Creates a new SQLiteConnection instance.

Properties inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- SQLiteConnectionString **ConnectionString** `[get]`

  The connection string to the database.

5.60.1 Detailed Description

5.60.2 Member Function Documentation

5.60.2.1 GetLapsForRacerInRace()

```
IEnumerable< RaceLapDto > RaceDay.SqlLite.Queries.RacerLapQuery.GetLapsForRacerInRace (
            int raceId,
            int racerId )
```

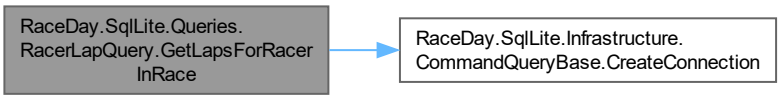
Gets all Laps for Racer in Race.

Parameters

raceId	The Race Id
racer↩ Id	The Racer Id

Implements RaceDay.Domain.Interfaces.IRacerLapQuery.

Here is the call graph for this function:



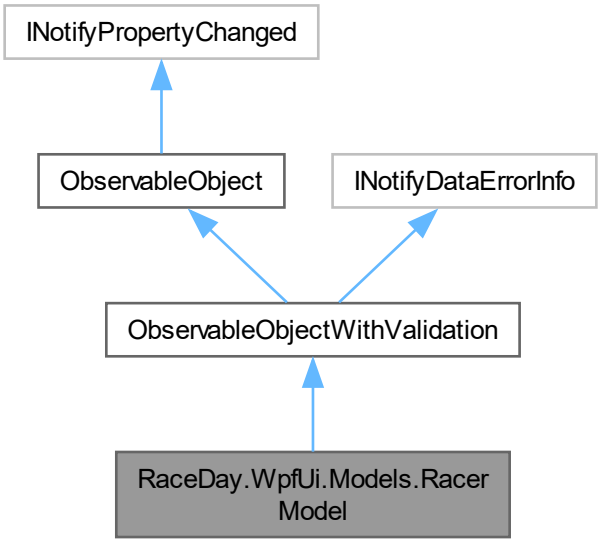
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.SqlLite/Queries/RacerLapQuery.cs

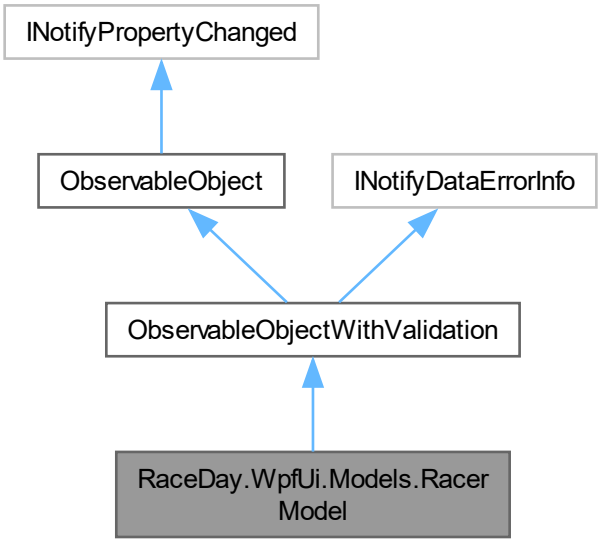
5.61 RaceDay.WpfUi.Models.RacerModel Class Reference

Model for Racer.

Inheritance diagram for RaceDay.WpfUi.Models.RacerModel:



Collaboration diagram for RaceDay.WpfUi.Models.RacerModel:



Properties

- bool **IsSelected** `[get, set]`

  Indicates if the Racer is selected in the UI.
- int **RacerId** `[get]`

  The unique identifier of the Racer.
- string? **RacerName** `[get, set]`

  The name of the Racer.
- byte? **Age** `[get, set]`

  The age of the Racer.
- bool **HasAllRequiredData** `[get]`

  Indicates if the Racer is valid.

Properties inherited from RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation

- bool **HasErrors** `[get]`
- bool **ForceInitialErrorState** `[get, set]`

  This property is used to force the initial error state of the object, before any property has been set. This is useful for when you want to show the error state of the object before the user has interacted with it. For example, when a dialog is opened, you may want to force the error state to set the CanExecute state of a command.

Additional Inherited Members

Public Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation

- IEnumerable **GetErrors** (string? propertyName)

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation

- override bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Parameters

field	*A reference to the field to set.*
value	*The value to set the field to.*
propertyName	*Name of the property.*

Template Parameters

T	*The type of the field.*

Returns

True if the value has changed, false otherwise.

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation

- EventHandler< DataErrorsChangedEventArgs >? **ErrorsChanged**

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.61.1 Detailed Description

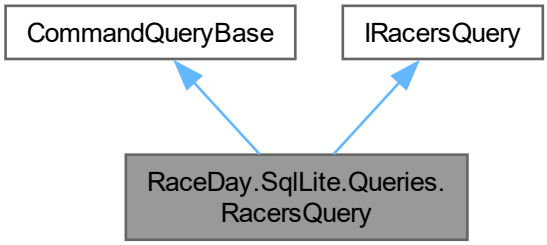
Model for Racer.

The documentation for this class was generated from the following file:

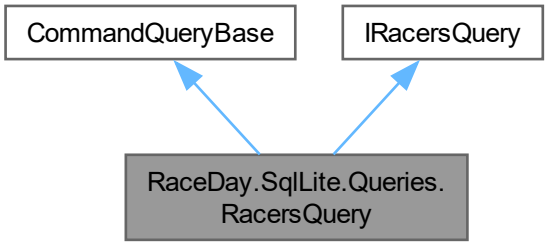
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Models/RacerModel.cs

5.62 RaceDay.SqlLite.Queries.RacersQuery Class Reference

Inheritance diagram for RaceDay.SqlLite.Queries.RacersQuery:



Collaboration diagram for RaceDay.SqlLite.Queries.RacersQuery:



Public Member Functions

- **RacersQuery** (string dbPath)
- IEnumerable< RacerDto > GetAll ()

  Gets all Racers.
- IEnumerable< RacerDto > GetRacersForRace (int raceId)

  Gets all Racers for Race.

Parameters

raceId	*The Race Id*

- IEnumerable< RacerDto > GetAll ()

  Gets all Racers.

- IEnumerable< RacerDto > GetRacersForRace (int raceId)

  Gets all Racers for Race.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- CommandQueryBase (string dbPath)

  Creates a new instance of the CommandQueryBase class.
- SQLiteConnection **CreateConnection** ()

  Creates a new SQLiteConnection instance.

Properties inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- SQLiteConnectionString **ConnectionString** `[get]`

  The connection string to the database.

5.62.1 Detailed Description

5.62.2 Member Function Documentation

5.62.2.1 GetAll()

```
IEnumerable< RacerDto > RaceDay.SqlLite.Queries.RacersQuery.GetAll ( )
```

Gets all Racers.

Implements RaceDay.Domain.Interfaces.IRacersQuery.

Here is the call graph for this function:

5.62.2.2 GetRacersForRace()

```
IEnumerable< RacerDto > RaceDay.SqlLite.Queries.RacersQuery.GetRacersForRace (
            int raceId )
```

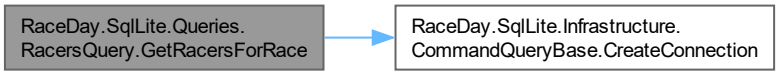
Gets all Racers for Race.

Parameters

raceId	The Race Id

Implements RaceDay.Domain.Interfaces.IRacersQuery.

Here is the call graph for this function:



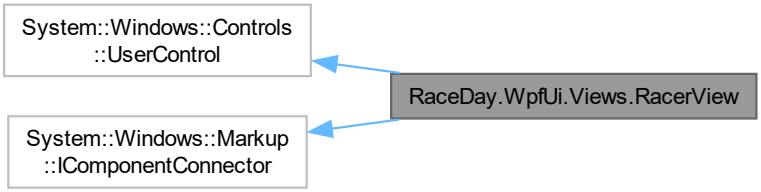
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.SqlLite/Queries/RacersQuery.cs

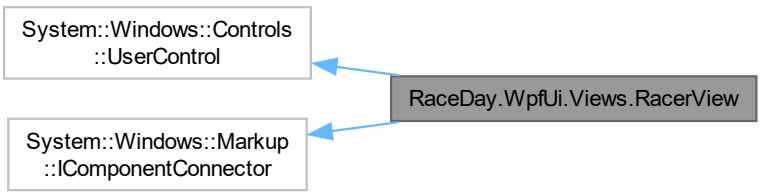
5.63 RaceDay.WpfUi.Views.RacerView Class Reference

RacerView.

Inheritance diagram for RaceDay.WpfUi.Views.RacerView:



Collaboration diagram for RaceDay.WpfUi.Views.RacerView:



Public Member Functions

- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.

5.63.1 Detailed Description

RacerView.

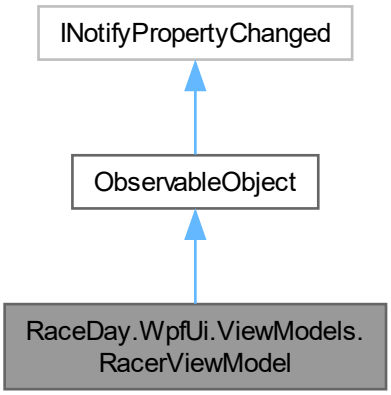
The documentation for this class was generated from the following files:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/RacerView.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/RacerView.g.i.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Release/net6.0-windows/Views/RacerView.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Views/RacerView.xaml.cs

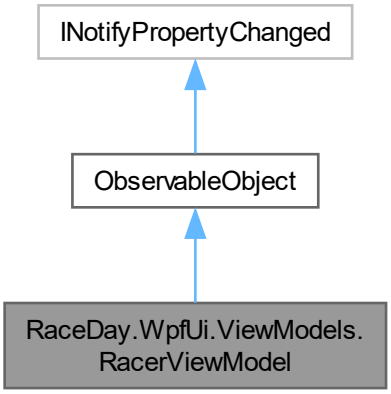
5.64 RaceDay.WpfUi.ViewModels.RacerViewModel Class Reference

A view model providing data and logic for the Racer view.

Inheritance diagram for RaceDay.WpfUi.ViewModels.RacerViewModel:



Collaboration diagram for RaceDay.WpfUi.ViewModels.RacerViewModel:



Public Member Functions

- delegate RacerViewModel **CreateRacerViewModel** (RaceModel raceModel, RacerModel racerModel)

  A delegate factory method for creating a new RacerViewModel.
- RacerViewModel (RaceModel raceModel, RacerModel raceRacerModel, IRacerLapQuery racerLap↩ Query, ICreateRacerLapCommand createRacerLapCommand, IDeleteRaceLapCommand deleteRace↩ LapCommand)

  Creates a new instance of the RacerViewModel class.

Properties

- RacerModel **Racer** `[get]`

  The racer to be displayed.
- ImageSource? **MedalImage** `[get, set]`

  An image source for displaying the racer's medal. This is only used for the top three racers within the race.
- ObservableCollection< RacerLapModel > **Laps** = new() `[get]`

  A collection of all laps for the racer.
- TimeSpan **LapRecord** `[get]`

  The fastest lap time for the racer.
- float **AverageLapSpeed** `[get]`

  The average lap speed for the racer.
- int **LapCounter** `[get]`

  The total number of laps for the racer.
- TimeSpan **LapTimer** `[get, set]`

  The time of the current lap.
- bool **Started** `[get, set]`

  Indicates whether the Racer already started the Race.
- bool **Finished** `[get, set]`

  Indicates whether the Races has finished.
- bool **DisplayLaps** `[get, set]`

A toggle for displaying the racer's laps component in the Ui.

- ICommand **ToggleLapsVisibilityCommand** `[get]`

  A command for toggling the laps component visibility.
- ICommand **StartTimerCommand** `[get]`

  A command for starting the timer.
- ICommand **StopTimerCommand** `[get]`

  A command for stopping the timer.
- ICommand **CatchLapTimeCommand** `[get]`

  A command for catching the lap time.
- ICommand **DeleteLapCommand** `[get]`

  A command for deleting the selected lap.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.64.1 Detailed Description

A view model providing data and logic for the Racer view.

5.64.2 Constructor & Destructor Documentation

5.64.2.1 RacerViewModel()

```
RaceDay.WpfUi.ViewModels.RacerViewModel.RacerViewModel (
            RaceModel raceModel,
            RacerModel raceRacerModel,
            IRacerLapQuery racerLapQuery,
            ICreateRacerLapCommand createRacerLapCommand,
            IDeleteRaceLapCommand deleteRaceLapCommand )
```

Creates a new instance of the RacerViewModel class.

Parameters

raceModel	The Race model
raceRacerModel	The Racer model
racerLapQuery	A query for retrieving RacerLap data
createRacerLapCommand	A command for creating a new RacerLap
deleteRaceLapCommand	A command for deleting a RacerLap

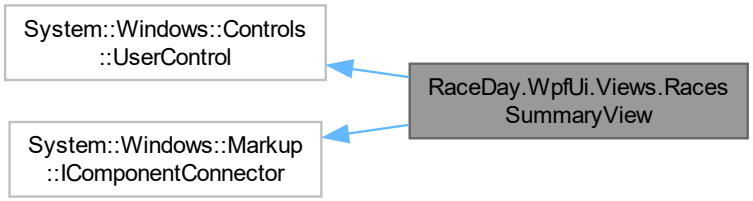
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/ViewModels/RacerViewModel.cs

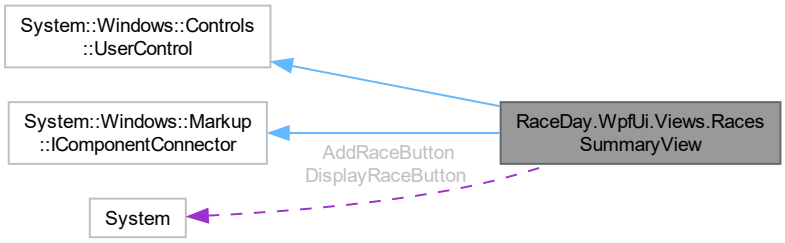
5.65 RaceDay.WpfUi.Views.RacesSummaryView Class Reference

RacesSummaryView.

Inheritance diagram for RaceDay.WpfUi.Views.RacesSummaryView:



Collaboration diagram for RaceDay.WpfUi.Views.RacesSummaryView:



Public Member Functions

- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.

5.65.1 Detailed Description

RacesSummaryView.

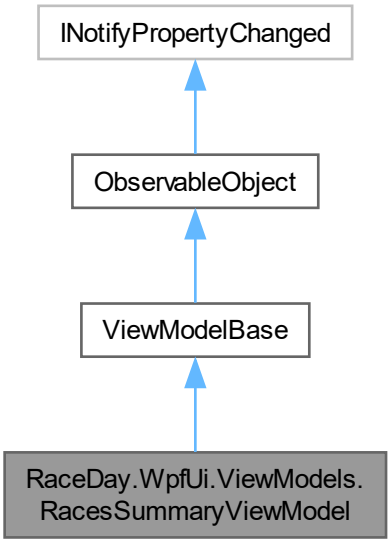
The documentation for this class was generated from the following files:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/RacesSummaryView.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/RacesSummaryView.g.i.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Release/net6.0-windows/Views/RacesSummaryView.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Views/RacesSummaryView.xaml.cs

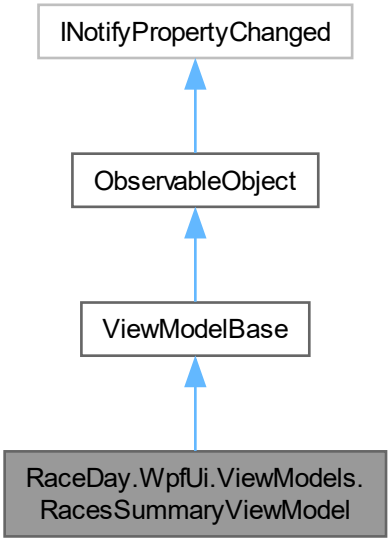
5.66 RaceDay.WpfUi.ViewModels.RacesSummaryViewModel Class Reference

A view model providing data and logic for Races Summary view.

Inheritance diagram for RaceDay.WpfUi.ViewModels.RacesSummaryViewModel:



Collaboration diagram for RaceDay.WpfUi.ViewModels.RacesSummaryViewModel:



Public Member Functions

- RacesSummaryViewModel (DialogService dialogService, NavigationService navigationService, IRaceSummaryQuery raceDayRacesQuery, RaceViewModel.CreateRaceViewModel createRaceViewModel)

  Initializes a new instance of the RacesSummaryViewModel class.
- void LoadRaceDayRaces (DaySummaryModel raceDay)

  Loads Race Details for given Race Day.
- void UpdateViewTitle (string? title)

  Updates the View Title. It will append ¨ - Races¨ to the title.

Properties

- ObservableCollection< RaceSummaryModel > **Races** = new() `[get]`

  A collection of RaceSummaryModel objects. Each object contains summarized details about a race.
- RaceSummaryModel? **SelectedRace** `[get, set]`

  The currently selected RaceSummaryModel.
- ICommand **CreateRaceCommand** `[get]`

  A command for creating a new Race.
- ICommand **DisplayRaceCommand** `[get]`

  A command for navigating to Race view.
- string **ViewTitle** `[get]`

  The title of the view, updated when Race Day is selected.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.66.1 Detailed Description

A view model providing data and logic for Races Summary view.

5.66.2 Constructor & Destructor Documentation

5.66.2.1 RacesSummaryViewModel()

```
RaceDay.WpfUi.ViewModels.RacesSummaryViewModel.RacesSummaryViewModel (
            DialogService dialogService,
            NavigationService navigationService,
            IRaceSummaryQuery raceDayRacesQuery,
            RaceViewModel::CreateRaceViewModel createRaceViewModel )
```

Initializes a new instance of the RacesSummaryViewModel class.

Parameters

dialogService	The dialog service.
navigationService	The navigation service.
raceDayRacesQuery	Query to select all Races and their summary details for a given Race Day.

5.66.3 Member Function Documentation

5.66.3.1 LoadRaceDayRaces()

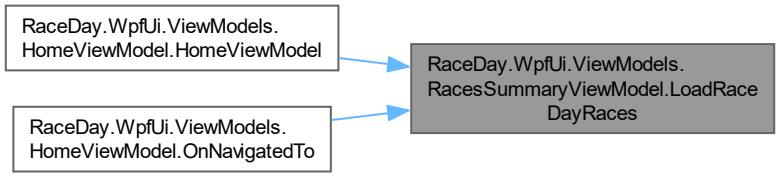
```
void RaceDay.WpfUi.ViewModels.RacesSummaryViewModel.LoadRaceDayRaces (
            DaySummaryModel raceDay )
```

Loads Race Details for given Race Day.

Parameters

raceDayId	The Race Day Id.

Here is the caller graph for this function:



5.66.3.2 UpdateViewTitle()

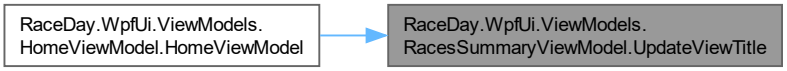
```
void RaceDay.WpfUi.ViewModels.RacesSummaryViewModel.UpdateViewTitle (
            string?  title )
```

Updates the View Title. It will append ¨ - Races¨ to the title.

Parameters

title	The title to set.

Here is the caller graph for this function:



The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/ViewModels/RacesSummaryViewModel.cs

5.67 RaceDay.WpfUi.Models.RaceSummaryModel Class Reference

A model for the Race Summary.

Properties

- int **RaceId** `[get]`

  The unique identifier of the Race.
- int **RaceDayId** `[get]`

  The unique identifier of the Race Day.
- DateTime? **RaceDate** `[get]`

  The date of the race.
- int **TotalRacers** `[get]`

  The total number of Racers participating in the Race.
- int **TotalLaps** `[get]`

  The total number of Laps completed by all Racers in the Race.
- TimeSpan **BestLapTime** `[get]`

  The best Lap Time in the Race.
- string? **BestLapTimeHolder** `[get]`

  The name of the Racer with the best Lap Time.
- float **TotalIncome** `[get]`

  The total income made from the Race.
- float **TotalExpenses** `[get]`

  The total expense incurred.
- float **TotalProfit** `[get]`

  The total profit.

5.67.1 Detailed Description

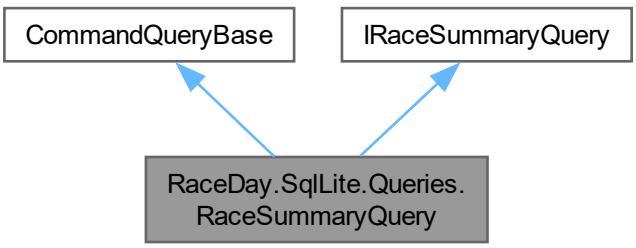
A model for the Race Summary.

The documentation for this class was generated from the following file:

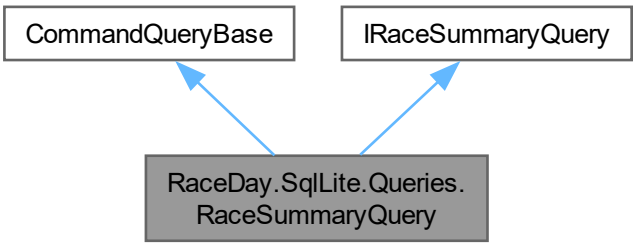
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Models/RaceSummaryModel.cs

5.68 RaceDay.SqlLite.Queries.RaceSummaryQuery Class Reference

Inheritance diagram for RaceDay.SqlLite.Queries.RaceSummaryQuery:



Collaboration diagram for RaceDay.SqlLite.Queries.RaceSummaryQuery:



Public Member Functions

- **RaceSummaryQuery** (string connectionString)
- IEnumerable< RaceSummaryDto > GetAll (int raceDayId)

  Gets all Races for Race Day summaries.
- RaceSummaryDto? GetById (int id)

  Gets summary for a specific Race.

- IEnumerable< RaceSummaryDto > GetAll (int raceDayId)

  Gets all Races for Race Day summaries.
- RaceSummaryDto? GetById (int id)

  Gets summary for a specific Race.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- CommandQueryBase (string dbPath)

  Creates a new instance of the CommandQueryBase class.
- SQLiteConnection **CreateConnection** ()

  Creates a new SQLiteConnection instance.

Properties inherited from RaceDay.SqlLite.Infrastructure.CommandQueryBase

- SQLiteConnectionString **ConnectionString** `[get]`

  The connection string to the database.

5.68.1 Detailed Description

5.68.2 Member Function Documentation

5.68.2.1 GetAll()

```
IEnumerable< RaceSummaryDto > RaceDay.SqlLite.Queries.RaceSummaryQuery.GetAll (
            int raceDayId )
```

Gets all Races for Race Day summaries.

Parameters

raceDayId	The Race Day id

Implements RaceDay.Domain.Interfaces.IRaceSummaryQuery.

Here is the call graph for this function:

5.68.2.2 GetById()

```
RaceSummaryDto?  RaceDay.SqlLite.Queries.RaceSummaryQuery.GetById (
            int id )
```

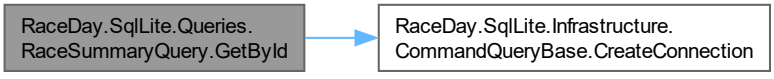
Gets summary for a specific Race.

Parameters

id	The Race Id

Implements RaceDay.Domain.Interfaces.IRaceSummaryQuery.

Here is the call graph for this function:



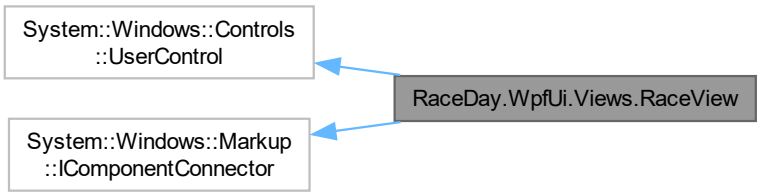
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.SqlLite/Queries/RaceSummaryQuery.cs

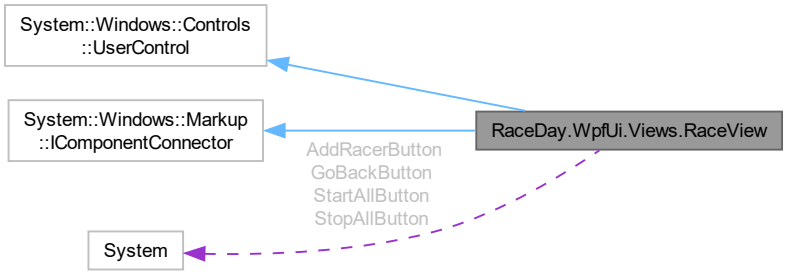
5.69 RaceDay.WpfUi.Views.RaceView Class Reference

RaceView.

Inheritance diagram for RaceDay.WpfUi.Views.RaceView:



Collaboration diagram for RaceDay.WpfUi.Views.RaceView:



Public Member Functions

- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.
- void **InitializeComponent** ()

  InitializeComponent.

5.69.1 Detailed Description

RaceView.

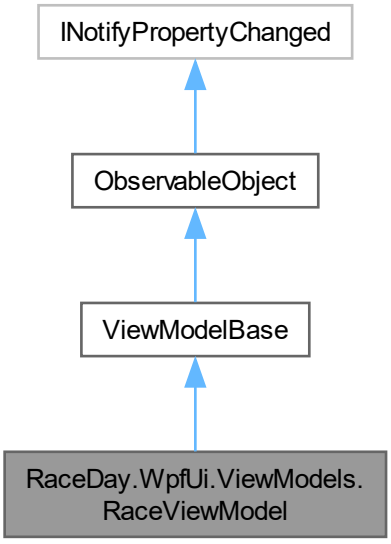
The documentation for this class was generated from the following files:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/RaceView.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Debug/net6.0-windows/Views/RaceView.g.i.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/obj/Release/net6.0-windows/Views/RaceView.g.cs
- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Views/RaceView.xaml.cs

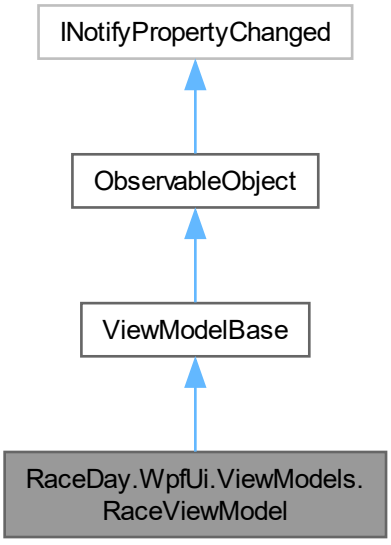
5.70 RaceDay.WpfUi.ViewModels.RaceViewModel Class Reference

A view model providing data and logic for the Race view.

Inheritance diagram for RaceDay.WpfUi.ViewModels.RaceViewModel:



Collaboration diagram for RaceDay.WpfUi.ViewModels.RaceViewModel:



Public Member Functions

- delegate RaceViewModel **CreateRaceViewModel** (RaceModel raceModel)

  A delegate factory method for creating a RaceViewModel from a RaceModel
- RaceViewModel (RaceModel raceModel, DialogService dialogService, NavigationService navigationService, RacerViewModel.CreateRacerViewModel createRacerViewModel, IRacersQuery racersQuery)

  Creates a new instance of RaceViewModel

Properties

- ObservableCollection< RacerViewModel > **Racers** = new() `[get]`

  A collection of view models representing Racers participating in the Race.
- RaceModel **RaceModel** `[get]`

  The model of the Race being displayed.
- ICommand **StopAllCommand** `[get]`

  A command for stopping timers of all Racers.
- ICommand **StartAllCommand** `[get]`

  A command for starting timers of all Racers.
- ICommand **AddRacerCommand** `[get]`

  A command for adding a Racer to the Race.
- ICommand **GoBackCommand** `[get]`

  A command for navigating back.

Additional Inherited Members

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.70.1 Detailed Description

A view model providing data and logic for the Race view.

5.70.2 Constructor & Destructor Documentation

5.70.2.1 RaceViewModel()

```
RaceDay.WpfUi.ViewModels.RaceViewModel.RaceViewModel (
            RaceModel raceModel,
            DialogService dialogService,
            NavigationService navigationService,
            RacerViewModel::CreateRacerViewModel createRacerViewModel,
            IRacersQuery racersQuery )
```

Creates a new instance of RaceViewModel

Parameters

raceModel	The Race model to display
dialogService	The dialog service
navigationService	The navigation service
createRacerViewModel	A delegate factory method for creating a RacerViewModel
racersQuery	A query for retrieving Racers

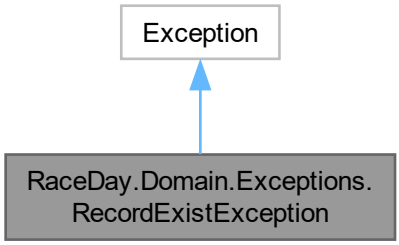
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/ViewModels/RaceViewModel.cs

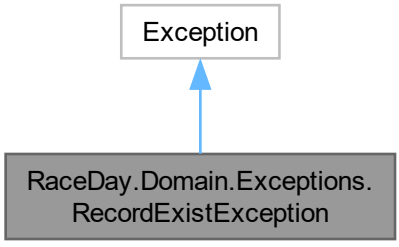
5.71 RaceDay.Domain.Exceptions.RecordExistException Class Reference

Exception thrown when a record already exists.

Inheritance diagram for RaceDay.Domain.Exceptions.RecordExistException:



Collaboration diagram for RaceDay.Domain.Exceptions.RecordExistException:



Public Member Functions

- **RecordExistException** ()

  Initializes a new instance of the RecordExistException class.
- RecordExistException (string message)

  Initializes a new instance of the RecordExistException class.

5.71.1 Detailed Description

Exception thrown when a record already exists.

5.71.2 Constructor & Destructor Documentation

5.71.2.1 RecordExistException()

```
RaceDay.Domain.Exceptions.RecordExistException.RecordExistException (
            string message )
```

Initializes a new instance of the RecordExistException class.

Parameters

message	The message that describes the error.

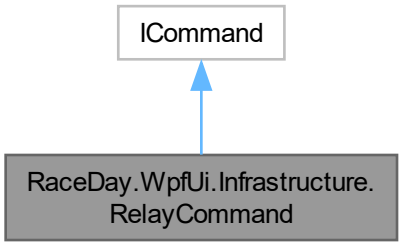
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.Domain/Exceptions/RecordExistException.cs

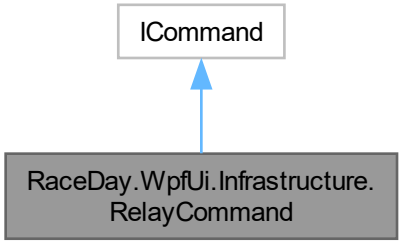
5.72 RaceDay.WpfUi.Infrastructure.RelayCommand Class Reference

A command that can be bound to a UI element.

Inheritance diagram for RaceDay.WpfUi.Infrastructure.RelayCommand:



Collaboration diagram for RaceDay.WpfUi.Infrastructure.RelayCommand:



Public Member Functions

- RelayCommand (Action< object?> execute, Func< object?, bool > canExecute)

  Initializes a new instance of the RelayCommand class.
- bool CanExecute (object? parameter)

  Defines the method that determines whether the command can execute in its current state.
- void Execute (object? parameter)

  Defines the method to be called when the command is invoked.

Properties

- EventHandler? **CanExecuteChanged**

  Occurs when changes occur that affect whether or not the command should execute.

5.72.1 Detailed Description

A command that can be bound to a UI element.

5.72.2 Constructor & Destructor Documentation

5.72.2.1 RelayCommand()

```
RaceDay.WpfUi.Infrastructure.RelayCommand.RelayCommand (
            Action< object?> execute,
            Func< object?, bool > canExecute )
```

Initializes a new instance of the RelayCommand class.

Parameters

execute	A delegate to execute when the command is executed
canExecute	A delegate to execute to determine if the command can be executed

5.72.3 Member Function Documentation

5.72.3.1 CanExecute()

```
bool RaceDay.WpfUi.Infrastructure.RelayCommand.CanExecute (
            object?  parameter )
```

Defines the method that determines whether the command can execute in its current state.

Parameters

parameter	An optional parameter to pass to the command

Returns

true if this command can be executed; otherwise, false.

5.72.3.2 Execute()

```
void RaceDay.WpfUi.Infrastructure.RelayCommand.Execute (
            object?  parameter )
```

Defines the method to be called when the command is invoked.

Parameters

parameter	

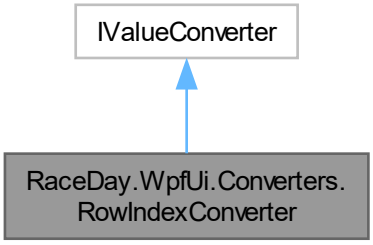
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Infrastructure/RelayCommand.cs

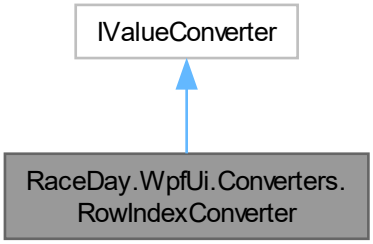
5.73 RaceDay.WpfUi.Converters.RowIndexConverter Class Reference

Convenience converter to get the row index of an item in a list.

Inheritance diagram for RaceDay.WpfUi.Converters.RowIndexConverter:



Collaboration diagram for RaceDay.WpfUi.Converters.RowIndexConverter:



Public Member Functions

- object **Convert** (object value, Type targetType, object? parameter, CultureInfo culture)
- object **ConvertBack** (object value, Type targetType, object parameter, CultureInfo culture)

5.73.1 Detailed Description

Convenience converter to get the row index of an item in a list.

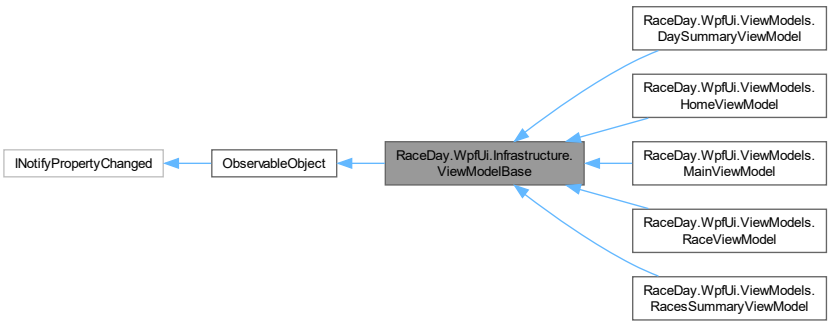
The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Converters/RowIndexConverter.cs

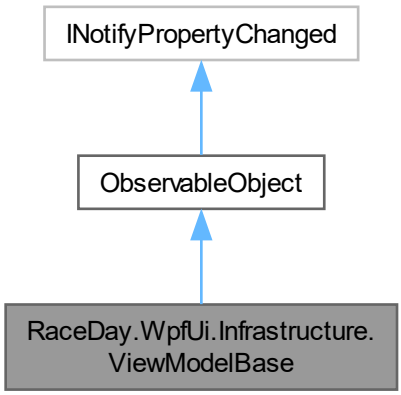
5.74 RaceDay.WpfUi.Infrastructure.ViewModelBase Class Reference

Base class for all view models.

Inheritance diagram for RaceDay.WpfUi.Infrastructure.ViewModelBase:



Collaboration diagram for RaceDay.WpfUi.Infrastructure.ViewModelBase:



Additional Inherited Members

Protected Member Functions inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- virtual void OnPropertyChanged ([CallerMemberName] string? propertyName=null)

  Raises the PropertyChanged event.
- virtual bool SetField< T > (ref T field, T value, [CallerMemberName] string? propertyName=null)

  Sets the field and raises the PropertyChanged event if the value has changed.

Events inherited from RaceDay.WpfUi.Infrastructure.ObservableObject

- PropertyChangedEventHandler? **PropertyChanged**

5.74.1 Detailed Description

Base class for all view models.

The documentation for this class was generated from the following file:

- D:/Personal/College.RaceDay/src/RaceDay.WpfUi/Infrastructure/ViewModelBase.cs

Index

AddRacerViewModel
RaceDay.WpfUi.ViewModels.AddRacerViewModel, 21

Bootstrap
RaceDay.WpfUi.StartUp.Bootstrapper, 25

CanExecute
RaceDay.WpfUi.Infrastructure.RelayCommand, 143
CommandQueryBase
RaceDay.SqlLite.Infrastructure.CommandQueryBase, 30
CreateRecordException
RaceDay.Domain.Exceptions.CreateRecordException, 43

DaySummaryViewModel
RaceDay.WpfUi.ViewModels.DaySummaryViewModel, 50
DialogService
RaceDay.WpfUi.Services.DialogService, 56
DisplayDialogAsync< TViewModel, TModel >
RaceDay.WpfUi.Services.DialogService, 56
DisplayDialogAsync< TViewModel, TModel, TResult >
RaceDay.WpfUi.Services.DialogService, 57

Execute
RaceDay.Domain.Interfaces.ICreateRaceDayCommand, 71
RaceDay.Domain.Interfaces.IDeleteRaceLapCommand, 78
RaceDay.Domain.Interfaces.IDeleteRaceRacerCommand, 79
RaceDay.Domain.Interfaces.IExchangeDataCommand< T >, 80
RaceDay.SqlLite.Commands.CreateRaceDayCommand, 33
RaceDay.SqlLite.Commands.CreateRaceRacerCommand, 37
RaceDay.SqlLite.Commands.CreateRacerCommand, 39
RaceDay.SqlLite.Commands.CreateRacerLapCommand, 42
RaceDay.SqlLite.Commands.DeleteRaceLapCommand, 52
RaceDay.SqlLite.Commands.DeleteRaceRacerCommand, 54
RaceDay.WpfUi.Infrastructure.RelayCommand, 143

GetAll
RaceDay.Domain.Interfaces.IDaySummaryQuery, 76
RaceDay.Domain.Interfaces.IRacersQuery, 87
RaceDay.Domain.Interfaces.IRaceSummaryQuery, 88
RaceDay.SqlLite.Queries.DaySummaryQuery, 46
RaceDay.SqlLite.Queries.RacersQuery, 124
RaceDay.SqlLite.Queries.RaceSummaryQuery, 135
GetById
RaceDay.Domain.Interfaces.IDaySummaryQuery, 76
RaceDay.Domain.Interfaces.IRaceSummaryQuery, 89
RaceDay.SqlLite.Queries.DaySummaryQuery, 46
RaceDay.SqlLite.Queries.RaceSummaryQuery, 136
GetLapsForRacerInRace
RaceDay.Domain.Interfaces.IRacerLapQuery, 86
RaceDay.SqlLite.Queries.RacerLapQuery, 119
GetRacersForRace
RaceDay.Domain.Interfaces.IRacersQuery, 87
RaceDay.SqlLite.Queries.RacersQuery, 124

HeaderProperty
RaceDay.WpfUi.Controls.CardDataField, 27
HomeViewModel
RaceDay.WpfUi.ViewModels.HomeViewModel, 68

ImageSourceProperty
RaceDay.WpfUi.Controls.CardDataField, 27
Int32Extension
RaceDay.WpfUi.Extensions.Int32Extension, 83

LoadData
RaceDay.WpfUi.ViewModels.DaySummaryViewModel, 50
LoadRaceDayRaces
RaceDay.WpfUi.ViewModels.RacesSummaryViewModel, 132

Main
RaceDay.WpfUi.App, 23
MainViewModel
RaceDay.WpfUi.ViewModels.MainViewModel, 91
Model
RaceDay.WpfUi.Infrastructure.DialogViewModelBase< TModel, TResult >, 60

NavigateTo

RaceDay.WpfUi.Services.NavigationService, 94
NavigateTo< T >
RaceDay.WpfUi.Services.NavigationService, 95
NavigationService
RaceDay.WpfUi.Services.NavigationService, 94
NewRaceDayViewModel
RaceDay.WpfUi.ViewModels.NewRaceDayViewModel, 101
NewRaceViewModel
RaceDay.WpfUi.ViewModels.NewRaceViewModel, 107

OnNavigatedTo
RaceDay.WpfUi.Interfaces.INavigableViewModel, 81
RaceDay.WpfUi.ViewModels.AddRacerViewModel, 21
RaceDay.WpfUi.ViewModels.HomeViewModel, 69
OnPropertyChanged
RaceDay.WpfUi.Infrastructure.ObservableObject, 109

ProvideValue
RaceDay.WpfUi.Extensions.Int32Extension, 83

RaceDay, 11
RaceDay.Domain, 11
RaceDay.Domain.DTOs, 11
RaceDay.Domain.Entities, 11
RaceDay.Domain.Exceptions, 11
RaceDay.Domain.Exceptions.CreateRecordException, 42
CreateRecordException, 43
RaceDay.Domain.Exceptions.RecordExistException, 140
RecordExistException, 141
RaceDay.Domain.Interfaces, 12
RaceDay.Domain.Interfaces.ICreateRaceCommand, 70
RaceDay.Domain.Interfaces.ICreateRaceDayCommand, 71
Execute, 71
RaceDay.Domain.Interfaces.ICreateRaceRacerCommand, 72
RaceDay.Domain.Interfaces.ICreateRacerCommand, 73
RaceDay.Domain.Interfaces.ICreateRacerLapCommand, 74
RaceDay.Domain.Interfaces.IDaySummaryQuery, 76
GetAll, 76
GetById, 76
RaceDay.Domain.Interfaces.IDeleteRaceLapCommand, 77
Execute, 78
RaceDay.Domain.Interfaces.IDeleteRaceRacerCommand, 78
Execute, 79
RaceDay.Domain.Interfaces.IExchangeDataCommand< T >, 79
Execute, 80
RaceDay.Domain.Interfaces.IRacerLapQuery, 86
GetLapsForRacerInRace, 86
RaceDay.Domain.Interfaces.IRacersQuery, 87
GetAll, 87
GetRacersForRace, 87
RaceDay.Domain.Interfaces.IRaceSummaryQuery, 88
GetAll, 88
GetById, 89
RaceDay.SqlLite, 12
RaceDay.SqlLite.Commands, 12
RaceDay.SqlLite.Commands.CreateRaceCommand, 30
RaceDay.SqlLite.Commands.CreateRaceDayCommand, 32
Execute, 33
RaceDay.SqlLite.Commands.CreateRaceRacerCommand, 35
Execute, 37
RaceDay.SqlLite.Commands.CreateRacerCommand, 38
Execute, 39
RaceDay.SqlLite.Commands.CreateRacerLapCommand, 40
Execute, 42
RaceDay.SqlLite.Commands.DeleteRaceLapCommand, 51
Execute, 52
RaceDay.SqlLite.Commands.DeleteRaceRacerCommand, 53
Execute, 54
RaceDay.SqlLite.Infrastructure, 12
RaceDay.SqlLite.Infrastructure.CommandQueryBase, 28
CommandQueryBase, 30
RaceDay.SqlLite.Queries, 13
RaceDay.SqlLite.Queries.DaySummaryQuery, 45
GetAll, 46
GetById, 46
RaceDay.SqlLite.Queries.RacerLapQuery, 118
GetLapsForRacerInRace, 119
RaceDay.SqlLite.Queries.RacersQuery, 123
GetAll, 124
GetRacersForRace, 124
RaceDay.SqlLite.Queries.RaceSummaryQuery, 134
GetAll, 135
GetById, 136
RaceDay.WpfUi, 13
RaceDay.WpfUi.App, 22
Main, 23
RaceDay.WpfUi.Controls, 13
RaceDay.WpfUi.Controls.AppHeader, 23
RaceDay.WpfUi.Controls.CardDataField, 26
HeaderProperty, 27
ImageSourceProperty, 27
ValueProperty, 27
RaceDay.WpfUi.Converters, 13
RaceDay.WpfUi.Converters.EqualityToVisibilityConverter, 61

RaceDay.WpfUi.Converters.InverseBooleanConverter, 83
RaceDay.WpfUi.Converters.InverseEqualityToVisibilityConverter, 85
RaceDay.WpfUi.Converters.RowIndexConverter, 143
RaceDay.WpfUi.Extensions, 13
RaceDay.WpfUi.Extensions.Int32Extension, 82
Int32Extension, 83
ProvideValue, 83
RaceDay.WpfUi.Infrastructure, 14
RaceDay.WpfUi.Infrastructure.DialogViewModelBase< TModel, TResult >, 58
Model, 60
RaceDay.WpfUi.Infrastructure.ObservableObject, 107
OnPropertyChanged, 109
SetField< T >, 109
RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation, 110
SetField< T >, 112
RaceDay.WpfUi.Infrastructure.RelayCommand, 141
CanExecute, 143
Execute, 143
RelayCommand, 142
RaceDay.WpfUi.Infrastructure.ViewModelBase, 145
RaceDay.WpfUi.Interfaces, 14
RaceDay.WpfUi.Interfaces.INavigableViewModel, 80
OnNavigatedTo, 81
RaceDay.WpfUi.MainWindow, 91
RaceDay.WpfUi.Models, 14
RaceDay.WpfUi.Models.NewRaceDayModel, 95
RaceDay.WpfUi.Models.NewRaceModel, 102
RaceDay.WpfUi.Models.RaceModel, 115
RaceDay.WpfUi.Models.RacerLapModel, 117
RaceDay.WpfUi.Models.RacerModel, 120
RaceDay.WpfUi.Models.RaceSummaryModel, 133
RaceDay.WpfUi.Pages, 14
RaceDay.WpfUi.Pages.HomePage, 64
RaceDay.WpfUi.Services, 15
RaceDay.WpfUi.Services.DialogService, 55
DialogService, 56
DisplayDialogAsync< TViewModel, TModel >, 56
DisplayDialogAsync< TViewModel, TModel, TResult >, 57
RaceDay.WpfUi.Services.NavigationService, 92
NavigateTo, 94
NavigateTo< T >, 95
NavigationService, 94
RaceDay.WpfUi.StartUp, 15
RaceDay.WpfUi.StartUp.Bootstrapper, 25
Bootstrap, 25
RaceDay.WpfUi.ValidationRules, 15
RaceDay.WpfUi.ValidationRules.FloatValidationRule, 62
RaceDay.WpfUi.ViewModels, 15
RaceDay.WpfUi.ViewModels.AddRacerViewModel, 18
AddRacerViewModel, 21
OnNavigatedTo, 21
RaceDay.WpfUi.ViewModels.DaySummaryViewModel, 48
DaySummaryViewModel, 50
LoadData, 50
RaceDay.WpfUi.ViewModels.HomeViewModel, 67
HomeViewModel, 68
OnNavigatedTo, 69
RaceDay.WpfUi.ViewModels.MainViewModel, 89
MainViewModel, 91
RaceDay.WpfUi.ViewModels.NewRaceDayViewModel, 99
NewRaceDayViewModel, 101
RaceDay.WpfUi.ViewModels.NewRaceViewModel, 104
NewRaceViewModel, 107
RaceDay.WpfUi.ViewModels.RacerViewModel, 126
RacerViewModel, 128
RaceDay.WpfUi.ViewModels.RacesSummaryViewModel, 130
LoadRaceDayRaces, 132
RacesSummaryViewModel, 132
UpdateViewTitle, 133
RaceDay.WpfUi.ViewModels.RaceViewModel, 138
RaceViewModel, 139
RaceDay.WpfUi.Views, 16
RaceDay.WpfUi.Views.AddRacerView, 17
RaceDay.WpfUi.Views.CreateRaceDayView, 34
RaceDay.WpfUi.Views.DatePickerView, 44
RaceDay.WpfUi.Views.DaySummaryView, 47
RaceDay.WpfUi.Views.HomeView, 66
RaceDay.WpfUi.Views.NewRaceDayView, 98
RaceDay.WpfUi.Views.NewRaceView, 103
RaceDay.WpfUi.Views.RaceDayRacesView, 113
RaceDay.WpfUi.Views.RaceDaySummaryView, 114
RaceDay.WpfUi.Views.RacerView, 125
RaceDay.WpfUi.Views.RacesSummaryView, 129
RaceDay.WpfUi.Views.RaceView, 137
RacerViewModel
RaceDay.WpfUi.ViewModels.RacerViewModel, 128
RacesSummaryViewModel
RaceDay.WpfUi.ViewModels.RacesSummaryViewModel, 132
RaceViewModel
RaceDay.WpfUi.ViewModels.RaceViewModel, 139
RecordExistException
RaceDay.Domain.Exceptions.RecordExistException, 141
RelayCommand
RaceDay.WpfUi.Infrastructure.RelayCommand, 142

SetField< T >
RaceDay.WpfUi.Infrastructure.ObservableObject, 109
RaceDay.WpfUi.Infrastructure.ObservableObjectWithValidation, 112

UpdateViewTitle
RaceDay.WpfUi.ViewModels.RacesSummaryViewModel, 133

ValueProperty
    RaceDay.WpfUi.Controls.CardDataField, 27

XamlGeneratedNamespace, 16
XamlGeneratedNamespace.GeneratedInternalTypeHelper,
        63