

Xamarin Equations App

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# Chapter 1

## Namespace Index

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## Chapter 2

# Hierarchical Index

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## Chapter 3

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## Chapter 4

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## Chapter 5

# Namespace Documentation

### 5.1 MobileXamarin Namespace Reference

#### Namespaces

- namespace [AppResources](#)
- namespace [Enums](#)
- namespace [EquationResolvers](#)
- namespace [IModels](#)
- namespace [IViewModels](#)
- namespace [Models](#)
- namespace [Repository](#)
- namespace [ViewModels](#)
- namespace [Views](#)

#### Classes

- class [App](#)  
*Core class for Xamarin app*

### 5.2 MobileXamarin.AppResources Namespace Reference

#### Namespaces

- namespace [Localization](#)

### 5.3 MobileXamarin.AppResources.Localization Namespace Reference

#### Classes

- class [Resources](#)  
*A strongly-typed resource class, for looking up localized strings, etc.*

## 5.4 MobileXamarin.Enums Namespace Reference

### Enumerations

- enum [EquationType](#) { [EquationType.Kinetic](#), [EquationType.Lagrange](#), [EquationType.Rocket](#), [EquationType.Unknown](#) }

*Types of equations*

- enum [Units](#) { [Units.Meter](#), [Units.Kilometer](#), [Units.Second](#), [Units.Hour](#), [Units.KilometerPerHour](#), [Units.MeterForSecond](#), [Units.Kilogram](#), [Units.Gram](#), [Units.KilogramPerSecond](#), [Units.Celsius](#), [Units.Kelvin](#), [Units.Unknown](#) }

*Units used in program*

### 5.4.1 Enumeration Type Documentation

#### 5.4.1.1 EquationType

```
enum MobileXamarin.Enums.EquationType [strong]
```

Types of equations

Enumerator

Kinetic	Kinetic energy equation
Lagrange	Lagrange Interpolation equation
Rocket	Vertical start of rocket equation
Unknown	Unknown equation

Definition at line 10 of file EquationType.cs.

#### 5.4.1.2 Units

```
enum MobileXamarin.Enums.Units [strong]
```

Units used in program

Enumerator

Meter	Meter [m]
Kilometer	Kilometer [km]
Second	Second [s]
Hour	Hour [h]
KilometerPerHour	Kilometer per hour [km/h]
MeterForSecond	Meter per second [m/s]

## Enumerator

Kilogram	Kilogram [kg]
Gram	Gram [g]
KilogramPerSecond	Kilogram per second [kg/s]
Celsius	Celsius [C]
Kelvin	Kelvin [K]
Unknown	Unknown unit

Definition at line 10 of file Units.cs.

## 5.5 MobileXamarin.EquationResolvers Namespace Reference

## Classes

- interface [IKineticEquationResolver](#)  
*Resolver for kinetic energy equation*
- interface [ILagrangeResolver](#)  
*Resolver for Lagrange interpolation equation*
- interface [IRocketEquationResolver](#)  
*Resolver for vertical rocket start equation*
- class [KineticEquationResolver](#)
- class [LagrangeResolver](#)  
*Lagrange resolver*
- class **Normalization**  
*Normalization class*
- class [RocketEquationResolver](#)

## 5.6 MobileXamarin.IModels Namespace Reference

## Classes

- interface [IEquation](#)  
*Equation model interface*

## 5.7 MobileXamarin.IViewModels Namespace Reference

## Classes

- interface [IEquationViewModelBase](#)  
*Base interface for equation view models*
- interface [IHomeViewModel](#)  
*View model for HomeView*
- interface [IKineticEnergyEquationViewModel](#)  
*View model for Kinetic Energy Equation View*
- interface [ILagrangeEquationViewModel](#)  
*Lagrange interpolation equation viewmodel*
- interface [IResultViewModel](#)  
*Result viewmodel*
- interface [IRocketEquationViewModel](#)  
*Rocket equation view model*

## 5.8 MobileXamarin.Models Namespace Reference

### Classes

- class [Equation](#)  
*Equation model*
- class [Point](#)  
*Point with double type parameters*
- class [Result](#)  
*Result holder for any equations*
- class [RocketParameter](#)  
*Parameters of the rocket*

## 5.9 MobileXamarin.Repository Namespace Reference

### Classes

- class [EquationRepository](#)
- interface [IEquationRepository](#)  
*Repository for equations*
- class [UnitRepository](#)  
*Repository for units*

## 5.10 MobileXamarin.ViewModels Namespace Reference

### Classes

- class [BaseViewModel](#)  
*Base class for view models*
- class [EquationViewModelBase](#)  
*Abstract base class for equation view models*
- class [HomeViewModel](#)  
*Home view model IHomeViewModel*
- class [KineticEnergyEquationViewModel](#)  
*Kinetic Energy Equation ViewModel*
- class [LagrangeEquationViewModel](#)  
*Lagrange interpolation viewmodel*
- class [ResultViewModel](#)  
*Result viewmodel*
- class [RocketEquationViewModel](#)  
*Rocket equation viewmodel*
- class [ViewModelLocator](#)  
*IoC container*



## 5.11 MobileXamarin.Views Namespace Reference

### Classes

- class [DetailsView](#)
- class [ForgotPasswordView](#)
- class [HomeView](#)  
*Home view class*
- class [KineticEnergyEquationView](#)  
*Kinetic energy view*
- class [LagrangeEquationView](#)  
*Lagrange view*
- class [ResultView](#)  
*Result view*
- class [RocketEquationView](#)  
*Rocket view*
- class [SignInView](#)
- class [SignUpView](#)



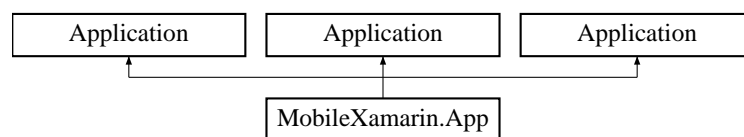
## Chapter 6

# Class Documentation

### 6.1 MobileXamarin.App Class Reference

Core class for Xamarin app

Inheritance diagram for MobileXamarin.App:



#### Public Member Functions

- [App \(\)](#)  
*Constructor for [App](#)*

#### Protected Member Functions

- override void [OnStart \(\)](#)  
*Handle when your app starts*
- override void [OnSleep \(\)](#)  
*Handle when your app sleeps*
- override void [OnResume \(\)](#)  
*Handle when your app resumes*

#### 6.1.1 Detailed Description

Core class for Xamarin app

Definition at line 12 of file App.xaml.cs.

## 6.1.2 Constructor & Destructor Documentation

### 6.1.2.1 App()

```
MobileXamarin.App.App ( )
```

Constructor for [App](#)

Definition at line 17 of file App.xaml.cs.

## 6.1.3 Member Function Documentation

### 6.1.3.1 OnResume()

```
override void MobileXamarin.App.OnResume ( ) [protected]
```

Handle when your app resumes

Definition at line 54 of file App.xaml.cs.

### 6.1.3.2 OnSleep()

```
override void MobileXamarin.App.OnSleep ( ) [protected]
```

Handle when your app sleeps

Definition at line 46 of file App.xaml.cs.

### 6.1.3.3 OnStart()

```
override void MobileXamarin.App.OnStart ( ) [protected]
```

Handle when your app starts

Definition at line 38 of file App.xaml.cs.

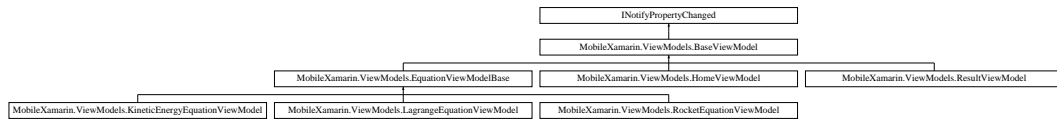
The documentation for this class was generated from the following files:

- [App.xaml.cs](#)
- obj/Debug/netstandard2.0/[App.xaml.g.cs](#)
- obj/Debug/netstandard2.0/[MobileXamarin.App.xaml.g.cs](#)

## 6.2 MobileXamarin.ViewModels.BaseViewModel Class Reference

Base class for view models

Inheritance diagram for MobileXamarin.ViewModels.BaseViewModel:



### Public Member Functions

- void [OnPropertyChanged](#) ([CallerMemberName] string propertyName="")  
*OnPropertyChanged - raises PropertyChanged event*

### Protected Attributes

- IPopupsService [PopupService](#)  
*Popup service for displaying popups*
- INavigationService [NavigationService](#)  
*Navigation service for navigation through pages*

### Events

- PropertyChangedEventHandler [PropertyChanged](#)  
*Property changed event handler*

#### 6.2.1 Detailed Description

Base class for view models

Definition at line 11 of file BaseViewModel.cs.

#### 6.2.2 Member Function Documentation

##### 6.2.2.1 OnPropertyChanged()

```
void MobileXamarin.ViewModels.BaseViewModel.OnPropertyChanged (
    [CallerMemberName] string propertyName = "" )
```

OnPropertyChanged - raises PropertyChanged event

#### Parameters

<i>propertyName</i>	
---------------------	--

Definition at line 33 of file BaseViewModel.cs.

## 6.2.3 Member Data Documentation

### 6.2.3.1 NavigationService

`INavigationService` MobileXamarin.ViewModels.BaseViewModel.NavigationService [protected]

Navigation service for navigation through pages

Definition at line 21 of file BaseViewModel.cs.

### 6.2.3.2 PopupService

`IPopupsService` MobileXamarin.ViewModels.BaseViewModel.PopupService [protected]

Popup service for displaying popups

Definition at line 16 of file BaseViewModel.cs.

## 6.2.4 Event Documentation

### 6.2.4.1 PropertyChanged

`PropertyChangedEventHandler` MobileXamarin.ViewModels.BaseViewModel.PropertyChanged

Property changed event handler

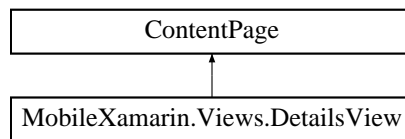
Definition at line 27 of file BaseViewModel.cs.

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

- ViewModels/[BaseViewModel.cs](#)

## 6.3 MobileXamarin.Views.DetailsView Class Reference

Inheritance diagram for MobileXamarin.Views.DetailsView:



### 6.3.1 Detailed Description

Definition at line 16 of file MobileXamarin.Views.DetailsView.xaml.g.cs.

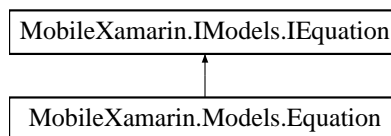
The documentation for this class was generated from the following file:

- obj/Debug/netstandard2.0/[MobileXamarin.Views.DetailsView.xaml.g.cs](#)

## 6.4 MobileXamarin.Models.Equation Class Reference

[Equation](#) model

Inheritance diagram for MobileXamarin.Models.Equation:



### Public Member Functions

- [Equation](#) (string name, string imageName, [EquationType](#) type)  
*Constructor for equation model*
- override string [ToString](#) ()

### Public Attributes

- ImageSource [Image](#) => ImageSource.FromResource(\$"MobileXamarin.AppResources.Assets.{imageName}↵  
Name}")  
*Gets the image of that equation*

### Properties

- string [Name](#) [get]  
*Name of the equation*
- [EquationType](#) [EquationType](#) [get]  
*Type of equation*

### 6.4.1 Detailed Description

[Equation](#) model

Definition at line 14 of file Equation.cs.

### 6.4.2 Constructor & Destructor Documentation

#### 6.4.2.1 Equation()

```
MobileXamarin.Models.Equation.Equation (
    string name,
    string imageName,
    EquationType type )
```

Constructor for equation model

##### Parameters

<i>name</i>	Name of the equation
<i>imageName</i>	Image name which is in Assets for the equation
<i>type</i>	Type of equation

Definition at line 40 of file Equation.cs.

### 6.4.3 Member Function Documentation

#### 6.4.3.1 ToString()

```
override string MobileXamarin.Models.Equation.ToString ( )
```

Definition at line 48 of file Equation.cs.

### 6.4.4 Member Data Documentation

#### 6.4.4.1 Image

```
ImageSource MobileXamarin.Models.Equation.Image => ImageSource.FromResource($"MobileXamarin.↵  
AppResources.Assets.{imageName}")
```

Gets the image of that equation

Definition at line 31 of file Equation.cs.



### 6.4.5 Property Documentation

#### 6.4.5.1 EquationType

`EquationType` MobileXamarin.Models.Equation.EquationType [get]

Type of equation

Definition at line 26 of file Equation.cs.

#### 6.4.5.2 Name

`string` MobileXamarin.Models.Equation.Name [get]

Name of the equation

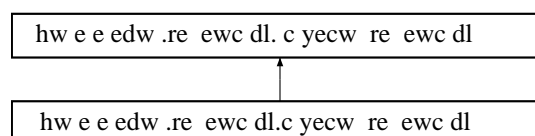
Definition at line 21 of file Equation.cs.

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

- Models/[Equation.cs](#)

## 6.5 MobileXamarin.Repository.EquationRepository Class Reference

Inheritance diagram for MobileXamarin.Repository.EquationRepository:



### Public Member Functions

- [EquationRepository](#) ()  
*Constructor for Equation repository*
- `IEnumerable< IEquation > GetEquations` ()  
*Get all saved equations*

#### 6.5.1 Detailed Description

Definition at line 13 of file EquationRepository.cs.

## 6.5.2 Constructor & Destructor Documentation

### 6.5.2.1 EquationRepository()

```
MobileXamarin.Repository.EquationRepository.EquationRepository ( )
```

Constructor for Equation repository

Definition at line 20 of file EquationRepository.cs.

## 6.5.3 Member Function Documentation

### 6.5.3.1 GetEquations()

```
IEnumerable<IEquation> MobileXamarin.Repository.EquationRepository.GetEquations ( )
```

Get all saved equations

#### Returns

Returns all equations

Implements [MobileXamarin.Repository.IEquationRepository](#).

Definition at line 39 of file EquationRepository.cs.

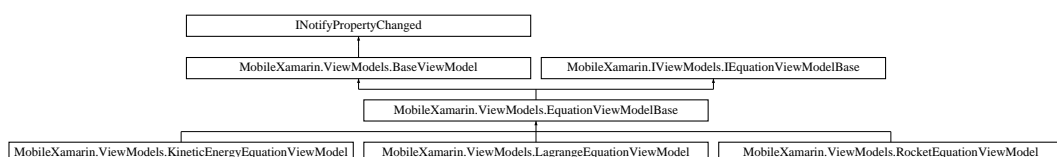
The documentation for this class was generated from the following file:

- Repository/[EquationRepository.cs](#)

## 6.6 MobileXamarin.ViewModels.EquationViewModelBase Class Reference

Abstract base class for equation view models

Inheritance diagram for MobileXamarin.ViewModels.EquationViewModelBase:



## Protected Member Functions

- [EquationViewModelBase](#) ()  
*Constructor for base class for equation view models*
- abstract bool [ResolveCanExecute](#) ()  
*Determines if can execute Resolve command*
- abstract Task [ResolveExecute](#) ()  
*Executes Resolve command*

## Properties

- bool [IsBusy](#) [get, set]  
*Indicates when to show busy indication*
- RelayCommand [Resolve](#) [get]  
*Gets command for resolving equation*

## Additional Inherited Members

### 6.6.1 Detailed Description

Abstract base class for equation view models

Definition at line 14 of file EquationViewModelBase.cs.

### 6.6.2 Constructor & Destructor Documentation

#### 6.6.2.1 EquationViewModelBase()

```
MobileXamarin.ViewModels.EquationViewModelBase.EquationViewModelBase ( ) [protected]
```

Constructor for base class for equation view models

Definition at line 42 of file EquationViewModelBase.cs.

### 6.6.3 Member Function Documentation

### 6.6.3.1 ResolveCanExecute()

```
abstract bool MobileXamarin.ViewModels.EquationViewModelBase.ResolveCanExecute ( ) [protected],  
[pure virtual]
```

Determines if can execute Resolve command

#### Returns

True when can execute Resolve command, False if not

Implemented in [MobileXamarin.ViewModels.RocketEquationViewModel](#), [MobileXamarin.ViewModels.KineticEnergyEquationViewModel](#) and [MobileXamarin.ViewModels.LagrangeEquationViewModel](#).

### 6.6.3.2 ResolveExecute()

```
abstract Task MobileXamarin.ViewModels.EquationViewModelBase.ResolveExecute ( ) [protected],  
[pure virtual]
```

Executes Resolve command

#### Returns

Task which execute command

Implemented in [MobileXamarin.ViewModels.RocketEquationViewModel](#), [MobileXamarin.ViewModels.KineticEnergyEquationViewModel](#) and [MobileXamarin.ViewModels.LagrangeEquationViewModel](#).

## 6.6.4 Property Documentation

### 6.6.4.1 IsBusy

```
bool MobileXamarin.ViewModels.EquationViewModelBase.IsBusy [get], [set]
```

Indicates when to show busy indication

Definition at line 22 of file EquationViewModelBase.cs.

### 6.6.4.2 Resolve

```
RelayCommand MobileXamarin.ViewModels.EquationViewModelBase.Resolve [get]
```

Gets command for resolving equation

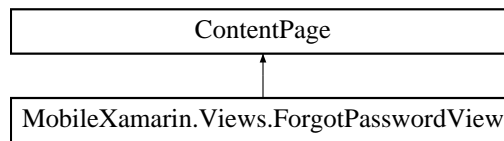
Definition at line 37 of file EquationViewModelBase.cs.

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

- ViewModels/[EquationViewModelBase.cs](#)

## 6.7 MobileXamarin.Views.ForgotPasswordView Class Reference

Inheritance diagram for MobileXamarin.Views.ForgotPasswordView:



### 6.7.1 Detailed Description

Definition at line 16 of file MobileXamarin.Views.ForgotPasswordView.xaml.g.cs.

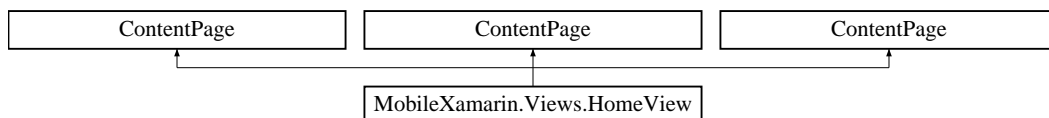
The documentation for this class was generated from the following file:

- obj/Debug/netstandard2.0/[MobileXamarin.Views.ForgotPasswordView.xaml.g.cs](#)

## 6.8 MobileXamarin.Views.HomeView Class Reference

Home view class

Inheritance diagram for MobileXamarin.Views.HomeView:



### Public Member Functions

- [HomeView](#) ()  
*Constructor for Home view*

### 6.8.1 Detailed Description

Home view class

Definition at line 16 of file MobileXamarin.Views.HomeView.xaml.g.cs.

### 6.8.2 Constructor & Destructor Documentation

### 6.8.2.1 `HomeView()`

`MobileXamarin.Views.HomeView.HomeView ( )`

Constructor for Home view

Definition at line 15 of file `HomeView.xaml.cs`.

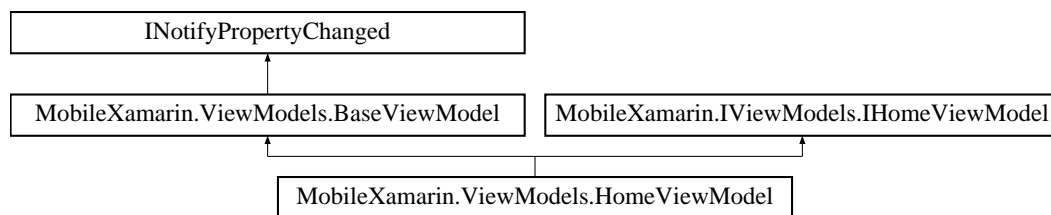
The documentation for this class was generated from the following files:

- `obj/Debug/netstandard2.0/MobileXamarin.Views.HomeView.xaml.g.cs`
- `obj/Debug/netstandard2.0/Views/HomeView.xaml.g.cs`
- `Views/HomeView.xaml.cs`

## 6.9 `MobileXamarin.ViewModels.HomeViewModel` Class Reference

Home view model `IHomeViewModel`

Inheritance diagram for `MobileXamarin.ViewModels.HomeViewModel`:



### Public Member Functions

- `HomeViewModel (IEquationRepository equationRepository, INavigationService navigationService)`  
*Constructor for `HomeViewModel`*

### Properties

- `IEquation SelectedEquation` [get, set]  
*Selected equation from the list*
- `IEnumerable< IEquation > Equations` [get]  
*Gets all equations*
- `RelayCommand NextPageCommand` [get]  
*Command for navigating to the next page when equation has been selected*

### Additional Inherited Members

#### 6.9.1 Detailed Description

Home view model `IHomeViewModel`

Definition at line 17 of file `HomeViewModel.cs`.

## 6.9.2 Constructor & Destructor Documentation

### 6.9.2.1 HomeViewModel()

```
MobileXamarin.ViewModels.HomeViewModel.HomeViewModel (
    IEquationRepository equationRepository,
    INavigationService navigationService )
```

Constructor for [HomeViewModel](#)

#### Parameters

<i>equationRepository</i>	Equation repository <a href="#">IEquationRepository</a>
<i>navigationService</i>	Navigation service <a href="#">INavigationService</a>

Definition at line 53 of file HomeViewModel.cs.

## 6.9.3 Property Documentation

### 6.9.3.1 Equations

```
IEnumerable<IEquation> MobileXamarin.ViewModels.HomeViewModel.Equations [get]
```

Gets all equations

Definition at line 41 of file HomeViewModel.cs.

### 6.9.3.2 NextPageCommand

```
RelayCommand MobileXamarin.ViewModels.HomeViewModel.NextPageCommand [get]
```

Command for navigating to the next page when equation has been selected

Definition at line 46 of file HomeViewModel.cs.

### 6.9.3.3 SelectedEquation

`IEquation MobileXamarin.ViewModels.HomeViewModel.SelectedEquation [get], [set]`

Selected equation from the list

Definition at line 25 of file HomeViewModel.cs.

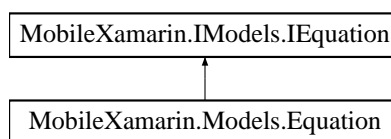
The documentation for this class was generated from the following file:

- ViewModels/[HomeViewModel.cs](#)

## 6.10 MobileXamarin.IModels.IEquation Interface Reference

Equation model interface

Inheritance diagram for MobileXamarin.IModels.IEquation:



### Properties

- string [Name](#) [get]  
*Name of the equation*
- ImageSource [Image](#) [get]  
*Gets the image of that equation*
- [EquationType](#) [EquationType](#) [get]  
*Type of equation*

### 6.10.1 Detailed Description

Equation model interface

Definition at line 13 of file IEquation.cs.

### 6.10.2 Property Documentation



### 6.10.2.1 EquationType

`EquationType` MobileXamarin.IModels.IEquation.EquationType [get]

Type of equation

Definition at line 28 of file IEquation.cs.

### 6.10.2.2 Image

`ImageSource` MobileXamarin.IModels.IEquation.Image [get]

Gets the image of that equation

Definition at line 23 of file IEquation.cs.

### 6.10.2.3 Name

`string` MobileXamarin.IModels.IEquation.Name [get]

Name of the equation

Definition at line 18 of file IEquation.cs.

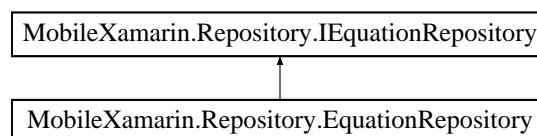
The documentation for this interface was generated from the following file:

- [IModels/IEquation.cs](#)

## 6.11 MobileXamarin.Repository.IEquationRepository Interface Reference

[Repository](#) for equations

Inheritance diagram for MobileXamarin.Repository.IEquationRepository:



### Public Member Functions

- `IEnumerable< IEquation > GetEquations ()`  
*Get all saved equations*

### 6.11.1 Detailed Description

[Repository](#) for equations

Definition at line 13 of file `IEquationRepository.cs`.

### 6.11.2 Member Function Documentation

#### 6.11.2.1 `GetEquations()`

```
IEnumerable<IEquation> MobileXamarin.Repository.IEquationRepository.GetEquations ( )
```

Get all saved equations

#### Returns

Returns all equations

Implemented in [MobileXamarin.Repository.EquationRepository](#).

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

- [Repository/IEquationRepository.cs](#)

## 6.12 MobileXamarin.IViewModels.IEquationViewModelBase Interface Reference

Base interface for equation view models

Inheritance diagram for MobileXamarin.IViewModels.IEquationViewModelBase:



### Properties

- RelayCommand [Resolve](#) [get]  
*Gets command for resolving equation*
- bool [IsBusy](#) [get, set]  
*Indicates when to show busy indication*

### 6.12.1 Detailed Description

Base interface for equation view models

Definition at line 12 of file `IEquationViewModelBase.cs`.

## 6.12.2 Property Documentation

### 6.12.2.1 IsBusy

```
bool MobileXamarin.IViewModels.IEquationViewModelBase.IsBusy [get], [set]
```

Indicates when to show busy indication

Definition at line 22 of file IEquationViewModelBase.cs.

### 6.12.2.2 Resolve

```
RelayCommand MobileXamarin.IViewModels.IEquationViewModelBase.Resolve [get]
```

Gets command for resolving equation

Definition at line 17 of file IEquationViewModelBase.cs.

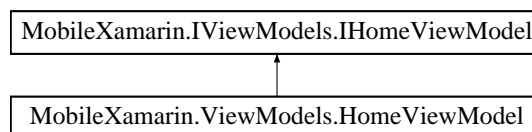
The documentation for this interface was generated from the following file:

- [IViewModels/IEquationViewModelBase.cs](#)

## 6.13 MobileXamarin.IViewModels.IHomeViewModel Interface Reference

View model for HomeView

Inheritance diagram for MobileXamarin.IViewModels.IHomeViewModel:



### Properties

- `IEnumerable< IEquation > Equations` [get]  
*Gets all equations*

### 6.13.1 Detailed Description

View model for HomeView

Definition at line 10 of file IHomeViewModel.cs.

## 6.13.2 Property Documentation

### 6.13.2.1 Equations

```
IEnumerable<IEquation> MobileXamarin.IViewModels.IHomeViewModel.Equations [get]
```

Gets all equations

Definition at line 15 of file IHomeViewModel.cs.

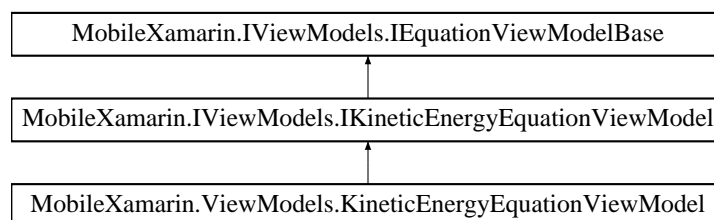
The documentation for this interface was generated from the following file:

- [IViewModels/IHomeViewModel.cs](#)

## 6.14 MobileXamarin.IViewModels.IKineticEnergyEquationViewModel Interface Reference

View model for Kinetic Energy Equation View

Inheritance diagram for MobileXamarin.IViewModels.IKineticEnergyEquationViewModel:



### Properties

- double [Weight](#) [get, set]  
*Gets or sets weight of the object*
- double [Speed](#) [get, set]  
*Gets or sets speed of the object*
- string [SelectedWeightUnit](#) [get, set]  
*Gets or sets unit for the weight of the object*
- string [SelectedSpeedUnit](#) [get, set]  
*Gets or sets unit for the speed of the object*

### 6.14.1 Detailed Description

View model for Kinetic Energy Equation View

Definition at line 10 of file IKineticEnergyEquationViewModel.cs.

## 6.14.2 Property Documentation

### 6.14.2.1 SelectedSpeedUnit

```
string MobileXamarin.IViewModels.IKineticEnergyEquationViewModel.SelectedSpeedUnit [get],  
[set]
```

Gets or sets unit for the speed of the object

Definition at line 30 of file IKineticEnergyEquationViewModel.cs.

### 6.14.2.2 SelectedWeightUnit

```
string MobileXamarin.IViewModels.IKineticEnergyEquationViewModel.SelectedWeightUnit [get],  
[set]
```

Gets or sets unit for the weight of the object

Definition at line 25 of file IKineticEnergyEquationViewModel.cs.

### 6.14.2.3 Speed

```
double MobileXamarin.IViewModels.IKineticEnergyEquationViewModel.Speed [get], [set]
```

Gets or sets speed of the object

Definition at line 20 of file IKineticEnergyEquationViewModel.cs.

### 6.14.2.4 Weight

```
double MobileXamarin.IViewModels.IKineticEnergyEquationViewModel.Weight [get], [set]
```

Gets or sets weight of the object

Definition at line 15 of file IKineticEnergyEquationViewModel.cs.

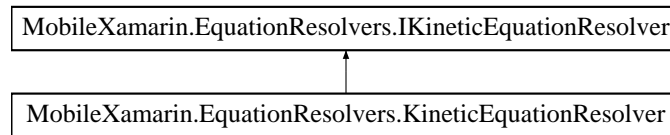
The documentation for this interface was generated from the following file:

- [IViewModels/IKineticEnergyEquationViewModel.cs](#)

## 6.15 MobileXamarin.EquationResolvers.IKineticEquationResolver Interface Reference

Resolver for kinetic energy equation

Inheritance diagram for MobileXamarin.EquationResolvers.IKineticEquationResolver:



### Public Member Functions

- Task< [Result](#) > [Resolve](#) (double weight, [Units](#) weightUnit, double speed, [Units](#) speedUnit)  
*Resolves kinetic energy equation*

### 6.15.1 Detailed Description

Resolver for kinetic energy equation

Definition at line 14 of file IKineticEquationResolver.cs.

### 6.15.2 Member Function Documentation

#### 6.15.2.1 Resolve()

```

Task<Result> MobileXamarin.EquationResolvers.IKineticEquationResolver.Resolve (
    double weight,
    Units weightUnit,
    double speed,
    Units speedUnit )
  
```

Resolves kinetic energy equation

#### Parameters

<i>weight</i>	Weight of the object
<i>weightUnit</i>	Unit of object's weight
<i>speed</i>	Speed of object
<i>speedUnit</i>	Unit of object's speed

**Returns**

Returns step by step in Latex format result of the equation resolving

Implemented in [MobileXamarin.EquationResolvers.KineticEquationResolver](#).

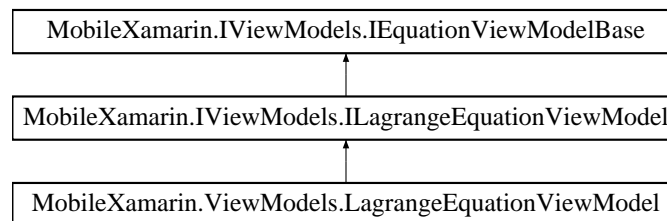
The documentation for this interface was generated from the following file:

- [EquationResolvers/IKineticEquationResolver.cs](#)

## 6.16 MobileXamarin.IViewModels.ILagrangeEquationViewModel Interface Reference

Lagrange interpolation equation viewmodel

Inheritance diagram for MobileXamarin.IViewModels.ILagrangeEquationViewModel:

**Properties**

- `ObservableCollection< Point > ControlPoints` [get, set]  
*Gets or sets start control points for interpolation*
- `RelayCommand AddControlPointCommand` [get, set]  
*Gets or sets command which adds new control point*
- `RelayCommand RemoveControlPointCommand` [get, set]  
*Gets or sets command which removes last control point*
- `double NewX` [get, set]  
*Gets or sets x position of new control point*
- `double NewY` [get, set]  
*Gets or sets y position of new control point*

### 6.16.1 Detailed Description

Lagrange interpolation equation viewmodel

Definition at line 14 of file `ILagrangeEquationViewModel.cs`.

### 6.16.2 Property Documentation

#### 6.16.2.1 AddControlPointCommand

```
RelayCommand MobileXamarin.IViewModels.ILagrangeEquationViewModel.AddControlPointCommand [get], [set]
```

Gets or sets command which adds new control point

Definition at line 24 of file ILagrangeEquationViewModel.cs.

#### 6.16.2.2 ControlPoints

```
ObservableCollection<Point> MobileXamarin.IViewModels.ILagrangeEquationViewModel.ControlPoints [get], [set]
```

Gets or sets start control points for interpolation

Definition at line 19 of file ILagrangeEquationViewModel.cs.

#### 6.16.2.3 NewX

```
double MobileXamarin.IViewModels.ILagrangeEquationViewModel.NewX [get], [set]
```

Gets or sets x position of new control point

Definition at line 34 of file ILagrangeEquationViewModel.cs.

#### 6.16.2.4 NewY

```
double MobileXamarin.IViewModels.ILagrangeEquationViewModel.NewY [get], [set]
```

Gets or sets y position of new control point

Definition at line 39 of file ILagrangeEquationViewModel.cs.

#### 6.16.2.5 RemoveControlPointCommand

```
RelayCommand MobileXamarin.IViewModels.ILagrangeEquationViewModel.RemoveControlPointCommand [get], [set]
```

Gets or sets command which removes last control point

Definition at line 29 of file ILagrangeEquationViewModel.cs.

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

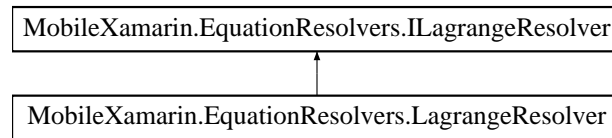
- [IViewModels/ILagrangeEquationViewModel.cs](#)



## 6.17 MobileXamarin.EquationResolvers.ILagrangeResolver Interface Reference

Resolver for Lagrange interpolation equation

Inheritance diagram for MobileXamarin.EquationResolvers.ILagrangeResolver:



### Public Member Functions

- Task< [Result](#) > [Resolve](#) (IEnumerable< [Point](#) > controlPoints)  
*Resolves lagrange interpolation*

#### 6.17.1 Detailed Description

Resolver for Lagrange interpolation equation

Definition at line 14 of file ILagrangeResolver.cs.

#### 6.17.2 Member Function Documentation

##### 6.17.2.1 Resolve()

```
Task<Result> MobileXamarin.EquationResolvers.ILagrangeResolver.Resolve (
    IEnumerable< Point > controlPoints )
```

Resolves lagrange interpolation

##### Parameters

<i>controlPoints</i>	Control points based on interpolation is calculated
----------------------	---

##### Returns

Points which can be displayed on the chart

Implemented in [MobileXamarin.EquationResolvers.LagrangeResolver](#).

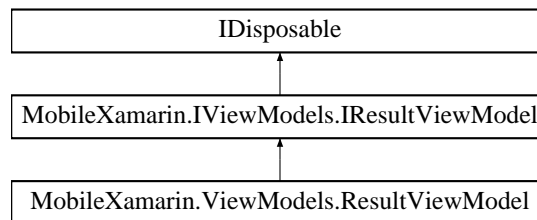
The documentation for this interface was generated from the following file:

- EquationResolvers/[ILagrangeResolver.cs](#)

## 6.18 MobileXamarin.IViewModels.IResultViewModel Interface Reference

Result viewmodel

Inheritance diagram for MobileXamarin.IViewModels.IResultViewModel:



### Properties

- `ObservableCollection< MathSource > Solution [get, set]`  
*Gets or sets collection of step results for the equation in MathSource type to display math symbols correctly*
- `ObservableCollection< Point > ControlPoints [get, set]`  
*Control points for chart*
- `RelayCommand Finish [get, set]`  
*Gets or sets command which finish this equation resolving and goes to the start page*
- `Chart Chart [get, set]`  
*Gets or sets chart (right now we use Telerik, so it is not used)*
- `ObservableCollection< Point > StartPoints [get, set]`  
*Start points before calculation*

### 6.18.1 Detailed Description

Result viewmodel

Definition at line 17 of file IResultViewModel.cs.

### 6.18.2 Property Documentation

#### 6.18.2.1 Chart

`Chart MobileXamarin.IViewModels.IResultViewModel.Chart [get], [set]`

Gets or sets chart (right now we use Telerik, so it is not used)

Definition at line 37 of file IResultViewModel.cs.

### 6.18.2.2 ControlPoints

```
ObservableCollection<Point> MobileXamarin.IViewModels.IResultViewModel.ControlPoints [get],  
[set]
```

Control points for chart

Definition at line 27 of file IResultViewModel.cs.

### 6.18.2.3 Finish

```
RelayCommand MobileXamarin.IViewModels.IResultViewModel.Finish [get], [set]
```

Gets or sets command which finish this equation resolving and goes to the start page

Definition at line 32 of file IResultViewModel.cs.

### 6.18.2.4 Solution

```
ObservableCollection<MathSource> MobileXamarin.IViewModels.IResultViewModel.Solution [get],  
[set]
```

Gets or sets collection of step results for the equation in MathSource type to display math symbols correctly

Definition at line 22 of file IResultViewModel.cs.

### 6.18.2.5 StartPoints

```
ObservableCollection<Point> MobileXamarin.IViewModels.IResultViewModel.StartPoints [get],  
[set]
```

Start points before calculation

Definition at line 42 of file IResultViewModel.cs.

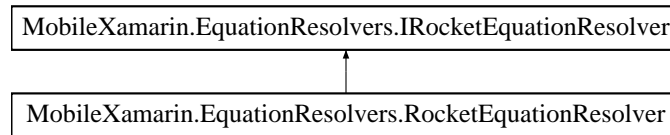
The documentation for this interface was generated from the following file:

- [IViewModels/IResultViewModel.cs](#)

## 6.19 MobileXamarin.EquationResolvers.IRocketEquationResolver Interface Reference

Resolver for vertical rocket start equation

Inheritance diagram for MobileXamarin.EquationResolvers.IRocketEquationResolver:



### Public Member Functions

- Task< [Result](#) > [Resolve](#) ([RocketParameter](#) rocketParameter)  
*Resolves rocket equation*

### 6.19.1 Detailed Description

Resolver for vertical rocket start equation

Definition at line 13 of file IRocketEquationResolver.cs.

### 6.19.2 Member Function Documentation

#### 6.19.2.1 Resolve()

```
Task<Result> MobileXamarin.EquationResolvers.IRocketEquationResolver.Resolve (
    RocketParameter rocketParameter )
```

Resolves rocket equation

#### Parameters

<i>rocketParameter</i>	Parameters of the rocket
------------------------	--------------------------

#### Returns

Result

Implemented in [MobileXamarin.EquationResolvers.RocketEquationResolver](#).

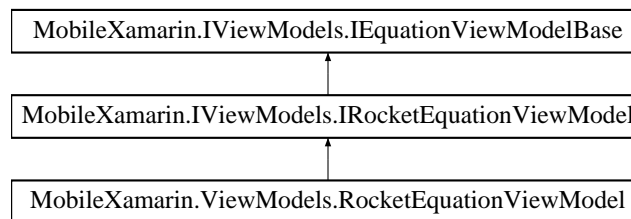
The documentation for this interface was generated from the following file:

- [EquationResolvers/IRocketEquationResolver.cs](#)

## 6.20 MobileXamarin.IViewModels.IRocketEquationViewModel Interface Reference

Rocket equation view model

Inheritance diagram for MobileXamarin.IViewModels.IRocketEquationViewModel:



### Properties

- double [MassOfTheRocket](#) [get, set]  
*Gets or sets mass of the rocket*
- double [MassOfTheFuel](#) [get, set]  
*Gets or sets mass of the fuel in the rocket*
- double [FlightTime](#) [get, set]  
*Gets or sets for how long of the rocket's trip the result is calculating*
- double [ProperImpulse](#) [get, set]  
*Gets or sets value of how much fuel is throwing out from the rocket*
- double [AmountOfThrownFuel](#) [get, set]  
*Amount of thrown fuel away for period of time eg kg/s*
- ObservableCollection< string > [MassOfTheRocketUnits](#) [get, set]  
*Gets or sets units for mass of the rocket*
- ObservableCollection< string > [MassOfTheFuelUnits](#) [get, set]  
*Gets or sets units for mass of the fuel*
- ObservableCollection< string > [FlightTimeUnits](#) [get, set]  
*Gets or sets units for the flight time*
- ObservableCollection< string > [ProperImpulseUnits](#) [get, set]  
*Gets or sets units for the proper impulse*
- ObservableCollection< string > [AmountOfThrownFuelUnits](#) [get, set]  
*Gets or sets units for amount of thrown fuel*
- string [SelectedMassOfTheRocketUnit](#) [get, set]  
*Selected unit for mass of the rocket*
- string [SelectedMassOfTheFuelUnit](#) [get, set]  
*Selected unit for mass of the fuel*
- string [SelectedFlightTimeUnit](#) [get, set]  
*Selected unit for the flight time*
- string [SelectedProperImpulseUnit](#) [get, set]  
*Selected unit for the proper impulse*
- string [SelectedAmountOfThrownFuelUnit](#) [get, set]  
*Unit for thrown fuel away eg. kg/s*

### 6.20.1 Detailed Description

Rocket equation view model

Definition at line 12 of file IRocketEquationViewModel.cs.

### 6.20.2 Property Documentation

#### 6.20.2.1 AmountOfThrownFuel

```
double MobileXamarin.IViewModels.IRocketEquationViewModel.AmountOfThrownFuel [get], [set]
```

Amount of thrown fuel away for period of time eg kg/s

Definition at line 37 of file IRocketEquationViewModel.cs.

#### 6.20.2.2 AmountOfThrownFuelUnits

```
ObservableCollection<string> MobileXamarin.IViewModels.IRocketEquationViewModel.AmountOf↵  
ThrownFuelUnits [get], [set]
```

Gets or sets units for amount of thrown fuel

Definition at line 62 of file IRocketEquationViewModel.cs.

#### 6.20.2.3 FlightTime

```
double MobileXamarin.IViewModels.IRocketEquationViewModel.FlightTime [get], [set]
```

Gets or sets for how long of the rocket's trip the result is calculating

Definition at line 27 of file IRocketEquationViewModel.cs.

#### 6.20.2.4 FlightTimeUnits

```
ObservableCollection<string> MobileXamarin.IViewModels.IRocketEquationViewModel.FlightTime↵  
Units [get], [set]
```

Gets or sets units for the flight time

Definition at line 52 of file IRocketEquationViewModel.cs.

#### 6.20.2.5 MassOfTheFuel

```
double MobileXamarin.IViewModels.IRocketEquationViewModel.MassOfTheFuel [get], [set]
```

Gets or sets mass of the fuel in the rocket

Definition at line 22 of file IRocketEquationViewModel.cs.

#### 6.20.2.6 MassOfTheFuelUnits

```
ObservableCollection<string> MobileXamarin.IViewModels.IRocketEquationViewModel.MassOfTheFuelUnits [get], [set]
```

Gets or sets units for mass of the fuel

Definition at line 47 of file IRocketEquationViewModel.cs.

#### 6.20.2.7 MassOfTheRocket

```
double MobileXamarin.IViewModels.IRocketEquationViewModel.MassOfTheRocket [get], [set]
```

Gets or sets mass of the rocket

Definition at line 17 of file IRocketEquationViewModel.cs.

#### 6.20.2.8 MassOfTheRocketUnits

```
ObservableCollection<string> MobileXamarin.IViewModels.IRocketEquationViewModel.MassOfTheRocketUnits [get], [set]
```

Gets or sets units for mass of the rocket

Definition at line 42 of file IRocketEquationViewModel.cs.

#### 6.20.2.9 ProperImpulse

```
double MobileXamarin.IViewModels.IRocketEquationViewModel.ProperImpulse [get], [set]
```

Gets or sets value of how much fuel is throwing out from the rocket

Definition at line 32 of file IRocketEquationViewModel.cs.

#### 6.20.2.10 ProperImpulseUnits

```
ObservableCollection<string> MobileXamarin.IViewModels.IRocketEquationViewModel.ProperImpulseUnits [get], [set]
```

Gets or sets units for the proper impulse

Definition at line 57 of file IRocketEquationViewModel.cs.

#### 6.20.2.11 SelectedAmountOfThrownFuelUnit

```
string MobileXamarin.IViewModels.IRocketEquationViewModel.SelectedAmountOfThrownFuelUnit [get], [set]
```

Unit for thrown fuel away eg. kg/s

Definition at line 87 of file IRocketEquationViewModel.cs.

#### 6.20.2.12 SelectedFlightTimeUnit

```
string MobileXamarin.IViewModels.IRocketEquationViewModel.SelectedFlightTimeUnit [get], [set]
```

Selected unit for the flight time

Definition at line 77 of file IRocketEquationViewModel.cs.

#### 6.20.2.13 SelectedMassOfTheFuelUnit

```
string MobileXamarin.IViewModels.IRocketEquationViewModel.SelectedMassOfTheFuelUnit [get], [set]
```

Selected unit for mass of the fuel

Definition at line 72 of file IRocketEquationViewModel.cs.

#### 6.20.2.14 SelectedMassOfTheRocketUnit

```
string MobileXamarin.IViewModels.IRocketEquationViewModel.SelectedMassOfTheRocketUnit [get], [set]
```

Selected unit for mass of the rocket

Definition at line 67 of file IRocketEquationViewModel.cs.



## 6.20.2.15 SelectedProperImpulseUnit

```
string MobileXamarin.IViewModels.IRocketEquationViewModel.SelectedProperImpulseUnit [get],
[set]
```

Selected unit for the proper impulse

Definition at line 82 of file IRocketEquationViewModel.cs.

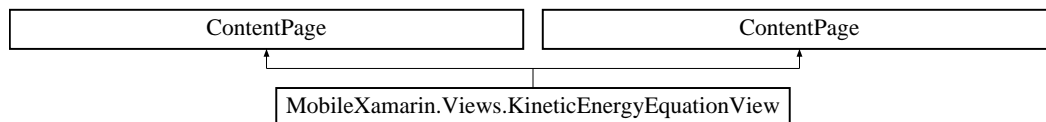
The documentation for this interface was generated from the following file:

- IViewModels/[IRocketEquationViewModel.cs](#)

## 6.21 MobileXamarin.Views.KineticEnergyEquationView Class Reference

Kinetic energy view

Inheritance diagram for MobileXamarin.Views.KineticEnergyEquationView:



## Public Member Functions

- [KineticEnergyEquationView \(\)](#)  
*Constructor for kinetic energy*

## 6.21.1 Detailed Description

Kinetic energy view

Definition at line 17 of file KineticEnergyEquationView.xaml.g.cs.

## 6.21.2 Constructor &amp; Destructor Documentation

## 6.21.2.1 KineticEnergyEquationView()

```
MobileXamarin.Views.KineticEnergyEquationView.KineticEnergyEquationView ( )
```

Constructor for kinetic energy

Definition at line 15 of file KineticEnergyEquationView.xaml.cs.

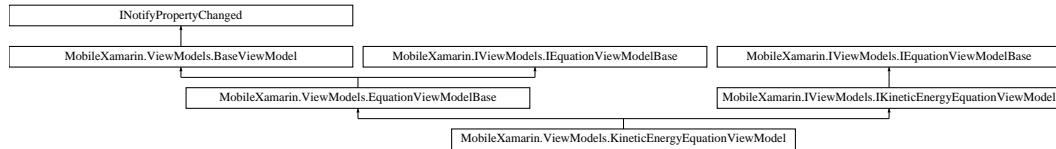
The documentation for this class was generated from the following files:

- obj/Debug/netstandard2.0/Views/[KineticEnergyEquationView.xaml.g.cs](#)
- Views/[KineticEnergyEquationView.xaml.cs](#)

## 6.22 MobileXamarin.ViewModels.KineticEnergyEquationViewModel Class Reference

Kinetic Energy Equation ViewModel

Inheritance diagram for MobileXamarin.ViewModels.KineticEnergyEquationViewModel:



### Public Member Functions

- [KineticEnergyEquationViewModel](#) ([IKineticEquationResolver](#) resolver, [INavigationService](#) navigationService, [IMessenger](#) messenger)  
*Constructor for [KineticEnergyEquationViewModel](#)*

### Protected Member Functions

- override bool [ResolveCanExecute](#) ()  
*Determines if can execute Resolve command*
- override async Task [ResolveExecute](#) ()  
*Executes Resolve command*

### Properties

- double [Weight](#) [get, set]  
*Gets or sets weight of the object*
- double [Speed](#) [get, set]  
*Gets or sets speed of the object*
- ObservableCollection< string > [WeightUnits](#) [get, set]  
*Gets or sets all units for the weight*
- ObservableCollection< string > [SpeedUnits](#) [get, set]  
*Gets or sets all units for the speed*
- string [SelectedWeightUnit](#) [get, set]  
*Gets or sets unit for the weight of the object*
- string [SelectedSpeedUnit](#) [get, set]  
*Gets or sets unit for the speed of the object*

### Additional Inherited Members

#### 6.22.1 Detailed Description

Kinetic Energy Equation ViewModel

Definition at line 22 of file [KineticEnergyEquationViewModel.cs](#).

## 6.22.2 Constructor & Destructor Documentation

### 6.22.2.1 KineticEnergyEquationViewModel()

```
MobileXamarin.ViewModels.KineticEnergyEquationViewModel.KineticEnergyEquationViewModel (
    IKineticEquationResolver resolver,
    INavigationService navigationService,
    IMessenger messenger )
```

Constructor for [KineticEnergyEquationViewModel](#)

#### Parameters

<i>resolver</i>	Resolver for kinetic energy equation <a href="#">IKineticEquationResolver</a>
<i>navigationService</i>	Navigation service <a href="#">INavigationService</a>
<i>messenger</i>	Messenger <a href="#">IMessenger</a>

Definition at line 111 of file [KineticEnergyEquationViewModel.cs](#).

## 6.22.3 Member Function Documentation

### 6.22.3.1 ResolveCanExecute()

```
override bool MobileXamarin.ViewModels.KineticEnergyEquationViewModel.ResolveCanExecute ( )
[protected], [virtual]
```

Determines if can execute Resolve command

#### Returns

True when can execute Resolve command, False if not

Implements [MobileXamarin.ViewModels.EquationViewModelBase](#).

Definition at line 148 of file [KineticEnergyEquationViewModel.cs](#).

### 6.22.3.2 ResolveExecute()

```
override async Task MobileXamarin.ViewModels.KineticEnergyEquationViewModel.ResolveExecute ( )
[protected], [virtual]
```

Executes Resolve command

#### Returns

Task which execute command

Implements [MobileXamarin.ViewModels.EquationViewModelBase](#).

Definition at line 162 of file [KineticEnergyEquationViewModel.cs](#).

## 6.22.4 Property Documentation

### 6.22.4.1 SelectedSpeedUnit

```
string MobileXamarin.ViewModels.KineticEnergyEquationViewModel.SelectedSpeedUnit [get], [set]
```

Gets or sets unit for the speed of the object

Definition at line 93 of file KineticEnergyEquationViewModel.cs.

### 6.22.4.2 SelectedWeightUnit

```
string MobileXamarin.ViewModels.KineticEnergyEquationViewModel.SelectedWeightUnit [get], [set]
```

Gets or sets unit for the weight of the object

Definition at line 77 of file KineticEnergyEquationViewModel.cs.

### 6.22.4.3 Speed

```
double MobileXamarin.ViewModels.KineticEnergyEquationViewModel.Speed [get], [set]
```

Gets or sets speed of the object

Definition at line 51 of file KineticEnergyEquationViewModel.cs.

### 6.22.4.4 SpeedUnits

```
ObservableCollection<string> MobileXamarin.ViewModels.KineticEnergyEquationViewModel.SpeedUnits [get], [set]
```

Gets or sets all units for the speed

Definition at line 71 of file KineticEnergyEquationViewModel.cs.

#### 6.22.4.5 Weight

```
double MobileXamarin.ViewModels.KineticEnergyEquationViewModel.Weight [get], [set]
```

Gets or sets weight of the object

Definition at line 35 of file KineticEnergyEquationViewModel.cs.

#### 6.22.4.6 WeightUnits

```
ObservableCollection<string> MobileXamarin.ViewModels.KineticEnergyEquationViewModel.WeightUnits [get], [set]
```

Gets or sets all units for the weight

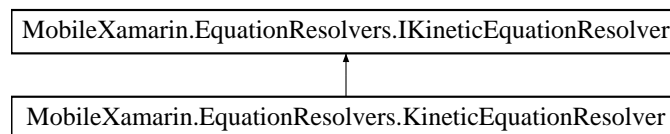
Definition at line 66 of file KineticEnergyEquationViewModel.cs.

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

- ViewModels/[KineticEnergyEquationViewModel.cs](#)

## 6.23 MobileXamarin.EquationResolvers.KineticEquationResolver Class Reference

Inheritance diagram for MobileXamarin.EquationResolvers.KineticEquationResolver:



### Public Member Functions

- async Task<[Result](#)> [Resolve](#) (double weight, [Units](#) weightUnit, double speed, [Units](#) speedUnit)  
*Resolves kinetic energy equation*

#### 6.23.1 Detailed Description

Definition at line 14 of file KineticEquationResolver.cs.

#### 6.23.2 Member Function Documentation

##### 6.23.2.1 Resolve()

```
async Task<Result> MobileXamarin.EquationResolvers.KineticEquationResolver.Resolve (
    double weight,
    Units weightUnit,
    double speed,
    Units speedUnit )
```

Resolves kinetic energy equation

**Parameters**

<i>weight</i>	Weight of the object
<i>weightUnit</i>	Unit of object's weight
<i>speed</i>	Speed of object
<i>speedUnit</i>	Unit of object's speed

**Returns**

Returns step by step in Latex format result of the equation resolving

Implements [MobileXamarin.EquationResolvers.IKineticEquationResolver](#).

Definition at line 25 of file KineticEquotionResolver.cs.

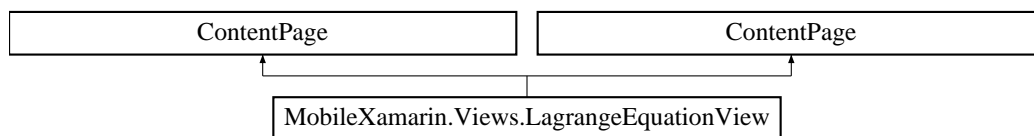
The documentation for this class was generated from the following file:

- EquationResolvers/[KineticEquotionResolver.cs](#)

## 6.24 MobileXamarin.Views.LagrangeEquationView Class Reference

Lagrange view

Inheritance diagram for MobileXamarin.Views.LagrangeEquationView:

**Public Member Functions**

- [LagrangeEquationView](#) ()  
*Lagrange Equation View Constructor*

**Public Attributes**

- [ILagrangeEquationViewModel ViewModel](#) => BindingContext as [ILagrangeEquationViewModel](#)  
*View Model which is context for that view*

### 6.24.1 Detailed Description

Lagrange view

Definition at line 17 of file LagrangeEquationView.xaml.g.cs.

## 6.24.2 Constructor & Destructor Documentation

### 6.24.2.1 LagrangeEquationView()

MobileXamarin.Views.LagrangeEquationView.LagrangeEquationView ( )

Lagrange Equation View Constructor

Definition at line 23 of file LagrangeEquationView.xaml.cs.

## 6.24.3 Member Data Documentation

### 6.24.3.1 ViewModel

`ILagrangeEquationViewModel` MobileXamarin.Views.LagrangeEquationView.ViewModel => Binding↔  
Context as `ILagrangeEquationViewModel`

View Model which is context for that view

Definition at line 18 of file LagrangeEquationView.xaml.cs.

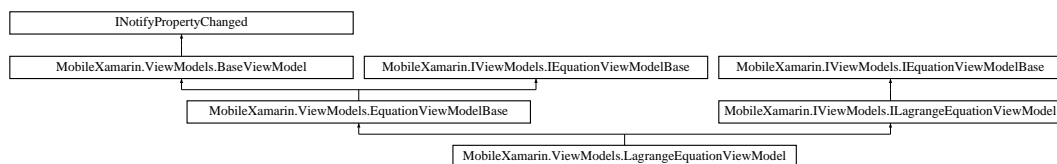
The documentation for this class was generated from the following files:

- obj/Debug/netstandard2.0/Views/LagrangeEquationView.xaml.g.cs
- Views/LagrangeEquationView.xaml.cs

## 6.25 MobileXamarin.ViewModels.LagrangeEquationViewModel Class Reference

Lagrange interpolation viewmodel

Inheritance diagram for MobileXamarin.ViewModels.LagrangeEquationViewModel:



## Public Member Functions

- `LagrangeEquationViewModel` (`ILagrangeResolver` resolver, `IMessenger` messenger, `INavigationService` navigationService)  
Constructor for `LagrangeEquationViewModel`

## Protected Member Functions

- override bool [ResolveCanExecute](#) ()  
*Determines if can execute Resolve command*
- override async Task [ResolveExecute](#) ()  
*Executes Resolve command*

## Properties

- ObservableCollection< [Point](#) > [ControlPoints](#) [get, set]  
*Gets or sets start control points for interpolation*
- double [NewX](#) [get, set]  
*Gets or sets x position of new control point*
- double [NewY](#) [get, set]  
*Gets or sets y position of new control point*
- RelayCommand [AddControlPointCommand](#) [get, set]  
*Gets or sets command which adds new control point*
- RelayCommand [RemoveControlPointCommand](#) [get, set]  
*Gets or sets command which removes last control point*

## Additional Inherited Members

### 6.25.1 Detailed Description

Lagrange interpolation viewmodel

Definition at line 23 of file LagrangeEquationViewModel.cs.

### 6.25.2 Constructor & Destructor Documentation

#### 6.25.2.1 LagrangeEquationViewModel()

```
MobileXamarin.ViewModels.LagrangeEquationViewModel.LagrangeEquationViewModel (
    ILagrangeResolver resolver,
    IMessenger messenger,
    INavigationService navigationService )
```

Constructor for [LagrangeEquationViewModel](#)

#### Parameters

<i>resolver</i>	Lagrange interpolation equation resolver <a href="#">ILagrangeResolver</a>
<i>messenger</i>	Messenger <a href="#">IMessenger</a>
<i>navigationService</i>	Navigation service <a href="#">INavigationService</a>



Definition at line 100 of file LagrangeEquationViewModel.cs.

### 6.25.3 Member Function Documentation

#### 6.25.3.1 ResolveCanExecute()

```
override bool MobileXamarin.ViewModels.LagrangeEquationViewModel.ResolveCanExecute ( ) [protected],  
[virtual]
```

Determines if can execute Resolve command

##### Returns

True when can execute Resolve command, False if not

Implements [MobileXamarin.ViewModels.EquationViewModelBase](#).

Definition at line 128 of file LagrangeEquationViewModel.cs.

#### 6.25.3.2 ResolveExecute()

```
override async Task MobileXamarin.ViewModels.LagrangeEquationViewModel.ResolveExecute ( )  
[protected], [virtual]
```

Executes Resolve command

##### Returns

Task which execute command

Implements [MobileXamarin.ViewModels.EquationViewModelBase](#).

Definition at line 137 of file LagrangeEquationViewModel.cs.

### 6.25.4 Property Documentation

#### 6.25.4.1 AddControlPointCommand

```
RelayCommand MobileXamarin.ViewModels.LagrangeEquationViewModel.AddControlPointCommand [get],  
[set]
```

Gets or sets command which adds new control point

Definition at line 86 of file LagrangeEquationViewModel.cs.

#### 6.25.4.2 ControlPoints

```
ObservableCollection<Point> MobileXamarin.ViewModels.LagrangeEquationViewModel.ControlPoints  
[get], [set]
```

Gets or sets start control points for interpolation

Definition at line 35 of file LagrangeEquationViewModel.cs.

#### 6.25.4.3 NewX

```
double MobileXamarin.ViewModels.LagrangeEquationViewModel.NewX [get], [set]
```

Gets or sets x position of new control point

Definition at line 53 of file LagrangeEquationViewModel.cs.

#### 6.25.4.4 NewY

```
double MobileXamarin.ViewModels.LagrangeEquationViewModel.NewY [get], [set]
```

Gets or sets y position of new control point

Definition at line 70 of file LagrangeEquationViewModel.cs.

#### 6.25.4.5 RemoveControlPointCommand

```
RelayCommand MobileXamarin.ViewModels.LagrangeEquationViewModel.RemoveControlPointCommand  
[get], [set]
```

Gets or sets command which removes last control point

Definition at line 91 of file LagrangeEquationViewModel.cs.

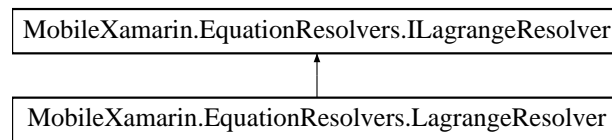
The documentation for this class was generated from the following file:

- ViewModels/[LagrangeEquationViewModel.cs](#)

## 6.26 MobileXamarin.EquationResolvers.LagrangeResolver Class Reference

Lagrange resolver

Inheritance diagram for MobileXamarin.EquationResolvers.LagrangeResolver:



### Public Member Functions

- async Task< [Result](#) > [Resolve](#) (IEnumerable< [Point](#) > controlPoints)  
*Resolves lagrange interpolation*

### 6.26.1 Detailed Description

Lagrange resolver

Definition at line 16 of file LagrangeResolver.cs.

### 6.26.2 Member Function Documentation

#### 6.26.2.1 Resolve()

```

async Task<Result> MobileXamarin.EquationResolvers.LagrangeResolver.Resolve (
    IEnumerable< Point > controlPoints )
  
```

Resolves lagrange interpolation

#### Parameters

<i>controlPoints</i>	Control points based on interpolation is calculated
----------------------	---

#### Returns

Points which can be displayed on the chart

Implements [MobileXamarin.EquationResolvers.ILagrangeResolver](#).

Definition at line 23 of file LagrangeResolver.cs.

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

- EquationResolvers/[LagrangeResolver.cs](#)

## 6.27 MobileXamarin.Models.Point Class Reference

[Point](#) with double type parameters

### Public Member Functions

- [Point](#) (double x, double y)  
*[Point](#) constructor*
- override string [ToString](#) ()

### Properties

- double [X](#) [get, set]  
*X value*
- double [Y](#) [get, set]  
*Y value*

### 6.27.1 Detailed Description

[Point](#) with double type parameters

Definition at line 10 of file Point.cs.

### 6.27.2 Constructor & Destructor Documentation

#### 6.27.2.1 Point()

```
MobileXamarin.Models.Point.Point (
    double x,
    double y )
```

[Point](#) constructor

#### Parameters

<i>x</i>	X value
<i>y</i>	Y value

Definition at line 26 of file Point.cs.

### 6.27.3 Member Function Documentation

### 6.27.3.1 ToString()

```
override string MobileXamarin.Models.Point.ToString ( )
```

Definition at line 33 of file Point.cs.

## 6.27.4 Property Documentation

### 6.27.4.1 X

```
double MobileXamarin.Models.Point.X [get], [set]
```

X value

Definition at line 15 of file Point.cs.

### 6.27.4.2 Y

```
double MobileXamarin.Models.Point.Y [get], [set]
```

Y value

Definition at line 19 of file Point.cs.

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

- Models/[Point.cs](#)

## 6.28 MobileXamarin.AppResources.Localization.Resources Class Reference

A strongly-typed resource class, for looking up localized strings, etc.

### 6.28.1 Detailed Description

A strongly-typed resource class, for looking up localized strings, etc.

Definition at line 25 of file Resources.Designer.cs.

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

- AppResources/Localization/[Resources.Designer.cs](#)

## 6.29 MobileXamarin.Models.Result Class Reference

[Result](#) holder for any equations

### Public Member Functions

- [Result](#) (IEnumerable< [Point](#) > controlPoints, IEnumerable< string > solution)  
*Constructor for [Result](#)*
- [Result](#) (IEnumerable< [Point](#) > controlPoints, IEnumerable< string > solution, IEnumerable< [Point](#) > startPoints)  
*Constructor for [Result](#)*

### Properties

- IEnumerable< [Point](#) > [ControlPoints](#) [get]  
*Control points for the chart*
- IEnumerable< string > [Solution](#) [get]  
*Latex representation of the velocity at the end of the rocket's flight time*
- IEnumerable< [Point](#) > [StartPoints](#) [get]  
*Points before calculation*

### 6.29.1 Detailed Description

[Result](#) holder for any equations

Definition at line 13 of file Result.cs.

### 6.29.2 Constructor & Destructor Documentation

#### 6.29.2.1 [Result\(\)](#) [1/2]

```
MobileXamarin.Models.Result.Result (
    IEnumerable< Point > controlPoints,
    IEnumerable< string > solution )
```

Constructor for [Result](#)

#### Parameters

<i>controlPoints</i>	Control points for chart
<i>solution</i>	Latex representation of the velocity at the end of the rocket's flight

Definition at line 35 of file Result.cs.

### 6.29.2.2 Result() [2/2]

```
MobileXamarin.Models.Result.Result (
    IEnumerable< Point > controlPoints,
    IEnumerable< string > solution,
    IEnumerable< Point > startPoints )
```

Constructor for [Result](#)

#### Parameters

<i>controlPoints</i>	Control points for chart
<i>solution</i>	Latex representation of the velocity at the end of the rocket's flight
<i>startPoints</i>	Points before calculation

Definition at line 48 of file Result.cs.

## 6.29.3 Property Documentation

### 6.29.3.1 ControlPoints

```
IEnumerable<Point> MobileXamarin.Models.Result.ControlPoints [get]
```

Control points for the chart

Definition at line 18 of file Result.cs.

### 6.29.3.2 Solution

```
IEnumerable<string> MobileXamarin.Models.Result.Solution [get]
```

Latex representation of the velocity at the end of the rocket's flight time

Definition at line 23 of file Result.cs.

### 6.29.3.3 StartPoints

```
IEnumerable<Point> MobileXamarin.Models.Result.StartPoints [get]
```

Points before calculation

Definition at line 28 of file Result.cs.

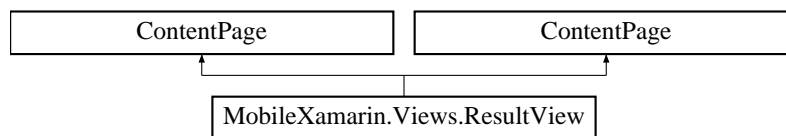
The documentation for this class was generated from the following file:

- Models/[Result.cs](#)

## 6.30 MobileXamarin.Views.ResultView Class Reference

Result view

Inheritance diagram for MobileXamarin.Views.ResultView:



### Public Member Functions

- [ResultView](#) ()  
*Constructor for result view*

### Protected Member Functions

- override void [OnAppearing](#) ()  
*Handle when view is appearing*
- override bool [OnBackButtonPressed](#) ()  
*Handle when back button pressed*

### Properties

- [IResultViewModel ViewModel](#) [get]  
*View model for that view*

### 6.30.1 Detailed Description

Result view

Definition at line 17 of file ResultView.xaml.g.cs.



## 6.30.2 Constructor & Destructor Documentation

### 6.30.2.1 ResultView()

```
MobileXamarin.Views.ResultView.ResultView ( )
```

Constructor for result view

Definition at line 21 of file ResultView.xaml.cs.

## 6.30.3 Member Function Documentation

### 6.30.3.1 OnAppearing()

```
override void MobileXamarin.Views.ResultView.OnAppearing ( ) [protected]
```

Handle when view is appearing

Definition at line 31 of file ResultView.xaml.cs.

### 6.30.3.2 OnBackButtonPressed()

```
override bool MobileXamarin.Views.ResultView.OnBackButtonPressed ( ) [protected]
```

Handle when back button pressed

#### Returns

True if pressed

Definition at line 42 of file ResultView.xaml.cs.

## 6.30.4 Property Documentation

### 6.30.4.1 ViewModel

`IResultViewModel` MobileXamarin.Views.ResultView.ViewModel [get]

View model for that view

Definition at line 17 of file ResultView.xaml.cs.

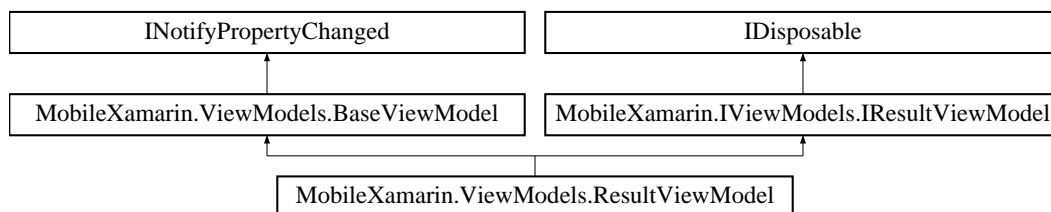
The documentation for this class was generated from the following files:

- obj/Debug/netstandard2.0/Views/ResultView.xaml.g.cs
- Views/ResultView.xaml.cs

## 6.31 MobileXamarin.ViewModels.ResultViewModel Class Reference

Result viewmodel

Inheritance diagram for MobileXamarin.ViewModels.ResultViewModel:



### Public Member Functions

- `ResultViewModel` (`INavigationService` navigationService, `IPopupsService` popupsService, `IMessenger` messenger)  
*Constructor for `ResultViewModel`*
- void `Dispose` ()

### Protected Member Functions

- virtual void `Dispose` (bool disposing)  
*Dispose this when it's not whi;e disposing*

### Properties

- `ObservableCollection< MathSource >` `Solution` [get, set]  
*Gets or sets collection of step results for the equation in MathSource type to display math symbols correctly*
- `ObservableCollection< Point >` `ControlPoints` [get, set]  
*Control points for chart*
- `ObservableCollection< Point >` `StartPoints` [get, set]  
*Start points before calculation*
- `Chart` `Chart` [get, set]  
*Gets or sets chart (right now we use Telerik, so it is not used)*
- `RelayCommand` `Finish` [get, set]  
*Gets or sets command which finish this equation resolving and goes to the start page*

## Additional Inherited Members

### 6.31.1 Detailed Description

Result viewmodel

Definition at line 27 of file ResultViewModel.cs.

### 6.31.2 Constructor & Destructor Documentation

#### 6.31.2.1 ResultViewModel()

```
MobileXamarin.ViewModels.ResultViewModel.ResultViewModel (
    INavigationService navigationService,
    IPopupsService popupsService,
    IMessenger messenger )
```

Constructor for [ResultViewModel](#)

#### Parameters

<i>navigationService</i>	Navigation service <a href="#">INavigationService</a>
<i>popupsService</i>	Popup service IPopupsService
<i>messenger</i>	Messenger IMessenger

Definition at line 88 of file ResultViewModel.cs.

### 6.31.3 Member Function Documentation

#### 6.31.3.1 Dispose() [1/2]

```
void MobileXamarin.ViewModels.ResultViewModel.Dispose ( )
```

Definition at line 179 of file ResultViewModel.cs.

#### 6.31.3.2 Dispose() [2/2]

```
virtual void MobileXamarin.ViewModels.ResultViewModel.Dispose (
    bool disposing ) [protected], [virtual]
```

Dispose this when it's not whi:e disposing

#### Parameters

<i>disposing</i>	Is disposing
------------------	--------------

Definition at line 189 of file ResultViewModel.cs.

### 6.31.4 Property Documentation

#### 6.31.4.1 Chart

```
Chart MobileXamarin.ViewModels.ResultViewModel.Chart [get], [set]
```

Gets or sets chart (right now we use Telerik, so it is not used)

Definition at line 65 of file ResultViewModel.cs.

#### 6.31.4.2 ControlPoints

```
ObservableCollection<Point> MobileXamarin.ViewModels.ResultViewModel.ControlPoints [get],  
[set]
```

Control points for chart

Definition at line 54 of file ResultViewModel.cs.

#### 6.31.4.3 Finish

```
RelayCommand MobileXamarin.ViewModels.ResultViewModel.Finish [get], [set]
```

Gets or sets command which finish this equation resolving and goes to the start page

Definition at line 80 of file ResultViewModel.cs.

#### 6.31.4.4 Solution

```
ObservableCollection<MathSource> MobileXamarin.ViewModels.ResultViewModel.Solution [get],  
[set]
```

Gets or sets collection of step results for the equation in MathSource type to display math symbols correctly

Definition at line 39 of file ResultViewModel.cs.

#### 6.31.4.5 StartPoints

ObservableCollection<Point> MobileXamarin.ViewModels.ResultViewModel.StartPoints [get], [set]

Start points before calculation

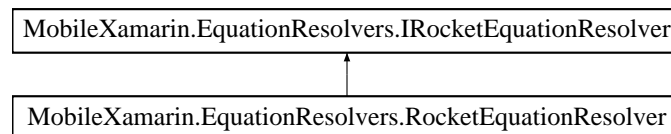
Definition at line 59 of file ResultViewModel.cs.

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

- ViewModels/[ResultViewModel.cs](#)

## 6.32 MobileXamarin.EquationResolvers.RocketEquationResolver Class Reference

Inheritance diagram for MobileXamarin.EquationResolvers.RocketEquationResolver:



### Public Member Functions

- async Task<Result> Resolve (RocketParameter rocketParameter)  
*Resolves rocket equation*

#### 6.32.1 Detailed Description

Definition at line 13 of file RocketEquationResolver.cs.

#### 6.32.2 Member Function Documentation

##### 6.32.2.1 Resolve()

```
async Task<Result> MobileXamarin.EquationResolvers.RocketEquationResolver.Resolve (
    RocketParameter rocketParameter )
```

Resolves rocket equation

#### Parameters

<i>rocketParameter</i>	Parameters of the rocket
------------------------	--------------------------

**Returns**

Result

Implements [MobileXamarin.EquationResolvers.IRocketEquationResolver](#).

Definition at line 20 of file RocketEquationResolver.cs.

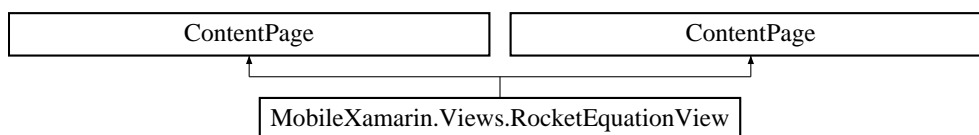
The documentation for this class was generated from the following file:

- EquationResolvers/[RocketEquationResolver.cs](#)

## 6.33 MobileXamarin.Views.RocketEquationView Class Reference

Rocket view

Inheritance diagram for MobileXamarin.Views.RocketEquationView:

**Public Member Functions**

- [RocketEquationView](#) ()  
*Constructor for a rocket*

### 6.33.1 Detailed Description

Rocket view

Definition at line 17 of file RocketEquationView.xaml.g.cs.

### 6.33.2 Constructor & Destructor Documentation

#### 6.33.2.1 RocketEquationView()

`MobileXamarin.Views.RocketEquationView.RocketEquationView ( )`

Constructor for a rocket

Definition at line 15 of file RocketEquationView.xaml.cs.

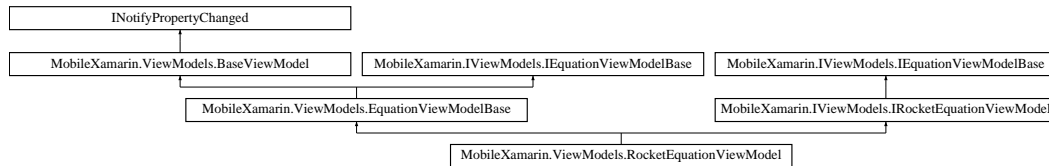
The documentation for this class was generated from the following files:

- obj/Debug/netstandard2.0/Views/[RocketEquationView.xaml.g.cs](#)
- Views/[RocketEquationView.xaml.cs](#)

## 6.34 MobileXamarin.ViewModels.RocketEquationViewModel Class Reference

Rocket equation viewmodel

Inheritance diagram for MobileXamarin.ViewModels.RocketEquationViewModel:



### Public Member Functions

- [RocketEquationViewModel](#) ([IRocketEquationResolver](#) resolver, [INavigationService](#) navigationService, [IMessenger](#) messenger)  
*Constructor for [RocketEquationViewModel](#)*

### Protected Member Functions

- override bool [ResolveCanExecute](#) ()  
*Determines if can execute Resolve command*
- override async Task [ResolveExecute](#) ()  
*Executes Resolve command*

### Properties

- double [MassOfTheRocket](#) [get, set]  
*Gets or sets mass of the rocket*
- double [MassOfTheFuel](#) [get, set]  
*Gets or sets mass of the fuel in the rocket*
- double [FlightTime](#) [get, set]  
*Gets or sets for how long of the rocket's trip the result is calculating*
- double [ProperImpulse](#) [get, set]  
*Gets or sets value of how much fuel is throwing out from the rocket*
- double [AmountOfThrownFuel](#) [get, set]  
*Amount of thrown fuel away for period of time eg kg/s*
- string [SelectedMassOfTheRocketUnit](#) [get, set]  
*Selected unit for mass of the rocket*
- string [SelectedMassOfTheFuelUnit](#) [get, set]  
*Selected unit for mass of the fuel*
- string [SelectedFlightTimeUnit](#) [get, set]  
*Selected unit for the flight time*
- string [SelectedProperImpulseUnit](#) [get, set]  
*Selected unit for the proper impulse*
- string [SelectedAmountOfThrownFuelUnit](#) [get, set]  
*Unit for thrown fuel away eg. kg/s*
- [ObservableCollection< string >](#) [MassOfTheRocketUnits](#) [get, set]

*Gets or sets units for mass of the rocket*

- ObservableCollection< string > [MassOfTheFuelUnits](#) [get, set]

*Gets or sets units for mass of the fuel*

- ObservableCollection< string > [FlightTimeUnits](#) [get, set]

*Gets or sets units for the flight time*

- ObservableCollection< string > [ProperImpulseUnits](#) [get, set]

*Gets or sets units for the proper impulse*

- ObservableCollection< string > [AmountOfThrownFuelUnits](#) [get, set]

*Gets or sets units for amount of thrown fuel*

## Additional Inherited Members

### 6.34.1 Detailed Description

Rocket equation viewmodel

Definition at line 23 of file RocketEquationViewModel.cs.

### 6.34.2 Constructor & Destructor Documentation

#### 6.34.2.1 RocketEquationViewModel()

```
MobileXamarin.ViewModels.RocketEquationViewModel.RocketEquationViewModel (
    IRocketEquationResolver resolver,
    INavigationService navigationService,
    IMessenger messenger )
```

Constructor for [RocketEquationViewModel](#)

#### Parameters

<i>resolver</i>	Equation resolver for rocket
<i>navigationService</i>	Navigation service
<i>messenger</i>	Messenger

Definition at line 231 of file RocketEquationViewModel.cs.

### 6.34.3 Member Function Documentation



#### 6.34.3.1 ResolveCanExecute()

```
override bool MobileXamarin.ViewModels.RocketEquationViewModel.ResolveCanExecute ( ) [protected],  
[virtual]
```

Determines if can execute Resolve command

##### Returns

True when can execute Resolve command, False if not

Implements [MobileXamarin.ViewModels.EquationViewModelBase](#).

Definition at line 289 of file RocketEquationViewModel.cs.

#### 6.34.3.2 ResolveExecute()

```
override async Task MobileXamarin.ViewModels.RocketEquationViewModel.ResolveExecute ( ) [protected],  
[virtual]
```

Executes Resolve command

##### Returns

Task which execute command

Implements [MobileXamarin.ViewModels.EquationViewModelBase](#).

Definition at line 307 of file RocketEquationViewModel.cs.

### 6.34.4 Property Documentation

#### 6.34.4.1 AmountOfThrownFuel

```
double MobileXamarin.ViewModels.RocketEquationViewModel.AmountOfThrownFuel [get], [set]
```

Amount of thrown fuel away for period of time eg kg/s

Definition at line 106 of file RocketEquationViewModel.cs.

#### 6.34.4.2 AmountOfThrownFuelUnits

```
ObservableCollection<string> MobileXamarin.ViewModels.RocketEquationViewModel.AmountOfThrownFuelUnits [get], [set]
```

Gets or sets units for amount of thrown fuel

Definition at line 221 of file RocketEquationViewModel.cs.

#### 6.34.4.3 FlightTime

```
double MobileXamarin.ViewModels.RocketEquationViewModel.FlightTime [get], [set]
```

Gets or sets for how long of the rocket's trip the result is calculating

Definition at line 74 of file RocketEquationViewModel.cs.

#### 6.34.4.4 FlightTimeUnits

```
ObservableCollection<string> MobileXamarin.ViewModels.RocketEquationViewModel.FlightTimeUnits [get], [set]
```

Gets or sets units for the flight time

Definition at line 211 of file RocketEquationViewModel.cs.

#### 6.34.4.5 MassOfTheFuel

```
double MobileXamarin.ViewModels.RocketEquationViewModel.MassOfTheFuel [get], [set]
```

Gets or sets mass of the fuel in the rocket

Definition at line 58 of file RocketEquationViewModel.cs.

#### 6.34.4.6 MassOfTheFuelUnits

```
ObservableCollection<string> MobileXamarin.ViewModels.RocketEquationViewModel.MassOfTheFuelUnits [get], [set]
```

Gets or sets units for mass of the fuel

Definition at line 206 of file RocketEquationViewModel.cs.

#### 6.34.4.7 MassOfTheRocket

```
double MobileXamarin.ViewModels.RocketEquationViewModel.MassOfTheRocket [get], [set]
```

Gets or sets mass of the rocket

Definition at line 42 of file RocketEquationViewModel.cs.

#### 6.34.4.8 MassOfTheRocketUnits

```
ObservableCollection<string> MobileXamarin.ViewModels.RocketEquationViewModel.MassOfTheRocketUnits [get], [set]
```

Gets or sets units for mass of the rocket

Definition at line 201 of file RocketEquationViewModel.cs.

#### 6.34.4.9 ProperImpulse

```
double MobileXamarin.ViewModels.RocketEquationViewModel.ProperImpulse [get], [set]
```

Gets or sets value of how much fuel is throwing out from the rocket

Definition at line 90 of file RocketEquationViewModel.cs.

#### 6.34.4.10 ProperImpulseUnits

```
ObservableCollection<string> MobileXamarin.ViewModels.RocketEquationViewModel.ProperImpulseUnits [get], [set]
```

Gets or sets units for the proper impulse

Definition at line 216 of file RocketEquationViewModel.cs.

#### 6.34.4.11 SelectedAmountOfThrownFuelUnit

```
string MobileXamarin.ViewModels.RocketEquationViewModel.SelectedAmountOfThrownFuelUnit [get], [set]
```

Unit for thrown fuel away eg. kg/s

Definition at line 186 of file RocketEquationViewModel.cs.

#### 6.34.4.12 SelectedFlightTimeUnit

```
string MobileXamarin.ViewModels.RocketEquationViewModel.SelectedFlightTimeUnit [get], [set]
```

Selected unit for the flight time

Definition at line 154 of file RocketEquationViewModel.cs.

#### 6.34.4.13 SelectedMassOfTheFuelUnit

```
string MobileXamarin.ViewModels.RocketEquationViewModel.SelectedMassOfTheFuelUnit [get], [set]
```

Selected unit for mass of the fuel

Definition at line 138 of file RocketEquationViewModel.cs.

#### 6.34.4.14 SelectedMassOfTheRocketUnit

```
string MobileXamarin.ViewModels.RocketEquationViewModel.SelectedMassOfTheRocketUnit [get],  
[set]
```

Selected unit for mass of the rocket

Definition at line 122 of file RocketEquationViewModel.cs.

#### 6.34.4.15 SelectedProperImpulseUnit

```
string MobileXamarin.ViewModels.RocketEquationViewModel.SelectedProperImpulseUnit [get], [set]
```

Selected unit for the proper impulse

Definition at line 170 of file RocketEquationViewModel.cs.

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

- ViewModels/[RocketEquationViewModel.cs](#)

## 6.35 MobileXamarin.Models.RocketParameter Class Reference

Parameters of the rocket

## Public Member Functions

- [RocketParameter](#) (double massOfTheRocket, [Units](#) massOfTheRocketUnit, double massOfTheFuel, [Units](#) massOfTheFuelUnit, double properImpulse, [Units](#) properImpulseUnit, double flightTime, [Units](#) flightTimeUnit, double amountOfThrownFuel, [Units](#) amountOfThrownFuelUnit)

*Parameters of the rocket*

## Properties

- double [MassOfTheRocket](#) [get]  
*Gets Mass of the rocket*
- [Units](#) [MassOfTheRocketUnit](#) [get]  
*Gets Mass of the rocket unit*
- double [MassOfTheFuel](#) [get]  
*Gets mass of the fuel*
- [Units](#) [MassOfTheFuelUnit](#) [get]  
*Gets mass of the fuel unit*
- double [ProperImpulse](#) [get]  
*Gets proper impulse*
- [Units](#) [ProperImpulseUnit](#) [get]  
*Gets proper impulse unit*
- double [FlightTime](#) [get]  
*Gets flight time*
- [Units](#) [FlightTimeUnit](#) [get]  
*Gets flight time unit*
- double [AmountOfThrownFuel](#) [get]  
*Amount of thrown fuel in period of time eg every second [kg/s]*
- [Units](#) [AmountOfThrownFuelUnit](#) [get]  
*Unit for thrown fuel*

### 6.35.1 Detailed Description

Parameters of the rocket

Definition at line 12 of file RocketParameter.cs.

### 6.35.2 Constructor & Destructor Documentation

#### 6.35.2.1 RocketParameter()

```
MobileXamarin.Models.RocketParameter.RocketParameter (
    double massOfTheRocket,
    Units massOfTheRocketUnit,
    double massOfTheFuel,
    Units massOfTheFuelUnit,
    double properImpulse,
    Units properImpulseUnit,
    double flightTime,
    Units flightTimeUnit,
    double amountOfThrownFuel,
    Units amountOfThrownFuelUnit )
```

Parameters of the rocket

**Parameters**

<i>massOfTheRocket</i>	Mass of the rocket
<i>massOfTheRocketUnit</i>	Mass rocket unit
<i>massOfTheFuel</i>	Mass of the fuel
<i>massOfTheFuelUnit</i>	Mass of the fuel unit
<i>properImpulse</i>	Proper impulse
<i>properImpulseUnit</i>	Proper impulse unit
<i>flightTime</i>	Flight time
<i>flightTimeUnit</i>	Flight time unit
<i>amountOfThrownFuel</i>	Amount of thrown fuel in period of time eg every second [kg/s]
<i>amountOfThrownFuelUnit</i>	Unit for thrown fuel

Definition at line 77 of file RocketParameter.cs.

**6.35.3 Property Documentation****6.35.3.1 AmountOfThrownFuel**

```
double MobileXamarin.Models.RocketParameter.AmountOfThrownFuel [get]
```

Amount of thrown fuel in period of time eg every second [kg/s]

Definition at line 57 of file RocketParameter.cs.

**6.35.3.2 AmountOfThrownFuelUnit**

```
Units MobileXamarin.Models.RocketParameter.AmountOfThrownFuelUnit [get]
```

Unit for thrown fuel

Definition at line 62 of file RocketParameter.cs.

**6.35.3.3 FlightTime**

```
double MobileXamarin.Models.RocketParameter.FlightTime [get]
```

Gets flight time

Definition at line 47 of file RocketParameter.cs.

#### 6.35.3.4 FlightTimeUnit

`Units MobileXamarin.Models.RocketParameter.FlightTimeUnit [get]`

Gets flight time unit

Definition at line 52 of file RocketParameter.cs.

#### 6.35.3.5 MassOfTheFuel

`double MobileXamarin.Models.RocketParameter.MassOfTheFuel [get]`

Gets mass of the fuel

Definition at line 27 of file RocketParameter.cs.

#### 6.35.3.6 MassOfTheFuelUnit

`Units MobileXamarin.Models.RocketParameter.MassOfTheFuelUnit [get]`

Gets mass of the fuel unit

Definition at line 32 of file RocketParameter.cs.

#### 6.35.3.7 MassOfTheRocket

`double MobileXamarin.Models.RocketParameter.MassOfTheRocket [get]`

Gets Mass of the rocket

Definition at line 17 of file RocketParameter.cs.

#### 6.35.3.8 MassOfTheRocketUnit

`Units MobileXamarin.Models.RocketParameter.MassOfTheRocketUnit [get]`

Gets Mass of the rocket unit

Definition at line 22 of file RocketParameter.cs.

#### 6.35.3.9 ProperImpulse

```
double MobileXamarin.Models.RocketParameter.ProperImpulse [get]
```

Gets proper impulse

Definition at line 37 of file RocketParameter.cs.

#### 6.35.3.10 ProperImpulseUnit

```
Units MobileXamarin.Models.RocketParameter.ProperImpulseUnit [get]
```

Gets proper impulse unit

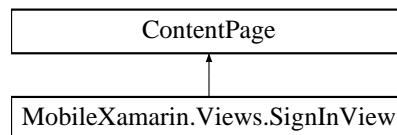
Definition at line 42 of file RocketParameter.cs.

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

- Models/[RocketParameter.cs](#)

### 6.36 MobileXamarin.Views.SignInView Class Reference

Inheritance diagram for MobileXamarin.Views.SignInView:



#### 6.36.1 Detailed Description

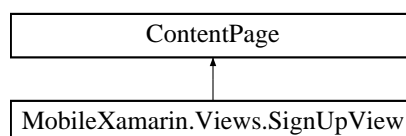
Definition at line 16 of file MobileXamarin.Views.SignInView.xaml.g.cs.

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

- obj/Debug/netstandard2.0/[MobileXamarin.Views.SignInView.xaml.g.cs](#)

### 6.37 MobileXamarin.Views.SignUpView Class Reference

Inheritance diagram for MobileXamarin.Views.SignUpView:





### 6.37.1 Detailed Description

Definition at line 16 of file MobileXamarin.Views.SignUpView.xaml.g.cs.

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

- obj/Debug/netstandard2.0/[MobileXamarin.Views.SignUpView.xaml.g.cs](#)

## 6.38 MobileXamarin.ViewModels.ViewModelLocator Class Reference

IoC container

### Public Member Functions

- [ViewModelLocator](#) ()  
*Constructor for [ViewModelLocator](#)*

### Public Attributes

- [IHomeViewModel Home](#) => ServiceLocator.Current.GetInstance<[IHomeViewModel](#)>()  
*Gets an instance for IHomeViewModel [HomeViewModel](#)*
- [IKineticEnergyEquationViewModel Kinetic](#)  
*Gets an instance for IKineticEnergyEquationViewModel [KineticEnergyEquationViewModel](#)*
- [IResultViewModel Result](#) => ServiceLocator.Current.GetInstance<[IResultViewModel](#)>()  
*Gets an instance for IResultViewModel [ResultViewModel](#)*
- [ILagrangeEquationViewModel Lagrange](#) => ServiceLocator.Current.GetInstance<[ILagrangeEquationViewModel](#)>()  
*Gets an instance for ILagrangeEquationViewModel [LagrangeEquationViewModel](#)*
- [IRocketEquationViewModel Rocket](#) => ServiceLocator.Current.GetInstance<[IRocketEquationViewModel](#)>()  
*Gets an instance for IRocketEquationViewModel [RocketEquationViewModel](#)*

### 6.38.1 Detailed Description

IoC container

Definition at line 16 of file ViewModelLocator.cs.

## 6.38.2 Constructor & Destructor Documentation

### 6.38.2.1 ViewModelLocator()

```
MobileXamarin.ViewModels.ViewModelLocator.ViewModelLocator ( )
```

Constructor for [ViewModelLocator](#)

Definition at line 22 of file ViewModelLocator.cs.

### 6.38.3 Member Data Documentation

#### 6.38.3.1 Home

```
IHomeViewModel MobileXamarin.ViewModels.ViewModelLocator.Home => ServiceLocator.Current.GetInstance<IHomeViewModel>()
```

Gets an instance for IHomeViewModel [HomeViewModel](#)

Definition at line 45 of file ViewModelLocator.cs.

#### 6.38.3.2 Kinetic

```
IKineticEnergyEquationViewModel MobileXamarin.ViewModels.ViewModelLocator.Kinetic
```

**Initial value:**

```
=> ServiceLocator.Current.GetInstance<IKineticEnergyEquationViewModel>()
```

Gets an instance for IKineticEnergyEquationViewModel [KineticEnergyEquationViewModel](#)

Definition at line 50 of file ViewModelLocator.cs.

#### 6.38.3.3 Lagrange

```
ILagrangeEquationViewModel MobileXamarin.ViewModels.ViewModelLocator.Lagrange => ServiceLocator.Current.GetInstance<ILagrangeEquationViewModel>()
```

Gets an instance for ILagrangeEquationViewModel [LagrangeEquationViewModel](#)

Definition at line 61 of file ViewModelLocator.cs.

#### 6.38.3.4 Result

```
IResultViewModel MobileXamarin.ViewModels.ViewModelLocator.Result => ServiceLocator.Current.GetInstance<IResultViewModel>()
```

Gets an instance for IResultViewModel [ResultViewModel](#)

Definition at line 56 of file ViewModelLocator.cs.

#### 6.38.3.5 Rocket

```
IRocketEquationViewModel MobileXamarin.ViewModels.ViewModelLocator.Rocket => ServiceLocator.Current.GetInstance<IRocketEquationViewModel>()
```

Gets an instance for IRocketEquationViewModel [RocketEquationViewModel](#)

Definition at line 66 of file ViewModelLocator.cs.

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

- [ViewModels/ViewModelLocator.cs](#)

## Chapter 7

# File Documentation

### 7.1 App.xaml.cs File Reference

#### Classes

- class [MobileXamarin.App](#)  
*Core class for Xamarin app*

#### Namespaces

- namespace [MobileXamarin](#)

### 7.2 AppResources/Localization/Resources.Designer.cs File Reference

#### Classes

- class [MobileXamarin.AppResources.Localization.Resources](#)  
*A strongly-typed resource class, for looking up localized strings, etc.*

#### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.AppResources](#)
- namespace [MobileXamarin.AppResources.Localization](#)

### 7.3 Enums/EquationType.cs File Reference

#### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Enums](#)

## Enumerations

- enum [MobileXamarin.Enums.EquationType](#) { [MobileXamarin.Enums.EquationType.Kinetic](#), [MobileXamarin.Enums.EquationType.Rocket](#), [MobileXamarin.Enums.EquationType.Unknown](#) }

*Types of equations*

## 7.4 Enums/Units.cs File Reference

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Enums](#)

### Enumerations

- enum [MobileXamarin.Enums.Units](#) { [MobileXamarin.Enums.Units.Meter](#), [MobileXamarin.Enums.Units.Kilometer](#), [MobileXamarin.Enums.Units.Second](#), [MobileXamarin.Enums.Units.Hour](#), [MobileXamarin.Enums.Units.KilometerPerHour](#), [MobileXamarin.Enums.Units.MeterForSecond](#), [MobileXamarin.Enums.Units.KilogramPerSecond](#), [MobileXamarin.Enums.Units.Celsius](#), [MobileXamarin.Enums.Units.Kelvin](#), [MobileXamarin.Enums.Units.Unknown](#) }

*Units used in program*

## 7.5 EquationResolvers/IKineticEquationResolver.cs File Reference

### Classes

- interface [MobileXamarin.EquationResolvers.IKineticEquationResolver](#)

*Resolver for kinetic energy equation*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.EquationResolvers](#)

## 7.6 EquationResolvers/ILagrangeResolver.cs File Reference

### Classes

- interface [MobileXamarin.EquationResolvers.ILagrangeResolver](#)

*Resolver for Lagrange interpolation equation*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.EquationResolvers](#)

## 7.7 EquationResolvers/IRocketEquationResolver.cs File Reference

### Classes

- interface [MobileXamarin.EquationResolvers.IRocketEquationResolver](#)  
*Resolver for vertical rocket start equation*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.EquationResolvers](#)

## 7.8 EquationResolvers/KineticEquationResolver.cs File Reference

### Classes

- class [MobileXamarin.EquationResolvers.KineticEquationResolver](#)

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.EquationResolvers](#)

## 7.9 EquationResolvers/LagrangeResolver.cs File Reference

### Classes

- class [MobileXamarin.EquationResolvers.LagrangeResolver](#)  
*Lagrange resolver*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.EquationResolvers](#)

## 7.10 EquationResolvers/Normalization.cs File Reference

### Classes

- class **MobileXamarin.EquationResolvers.Normalization**  
*Normalization class*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.EquationResolvers](#)

## 7.11 EquationResolvers/RocketEquationResolver.cs File Reference

### Classes

- class [MobileXamarin.EquationResolvers.RocketEquationResolver](#)

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.EquationResolvers](#)

## 7.12 IModels/IEquation.cs File Reference

### Classes

- interface [MobileXamarin.IModels.IEquation](#)  
*Equation model interface*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.IModels](#)

## 7.13 IViewModels/IEquationViewModelBase.cs File Reference

### Classes

- interface [MobileXamarin.IViewModels.IEquationViewModelBase](#)  
*Base interface for equation view models*

## Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.IViewModels](#)

## 7.14 IViewModels/IHomeViewModel.cs File Reference

### Classes

- interface [MobileXamarin.IViewModels.IHomeViewModel](#)  
*View model for HomeView*

## Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.IViewModels](#)

## 7.15 IViewModels/IKineticEnergyEquationViewModel.cs File Reference

### Classes

- interface [MobileXamarin.IViewModels.IKineticEnergyEquationViewModel](#)  
*View model for Kinetic Energy Equation View*

## Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.IViewModels](#)

## 7.16 IViewModels/ILagrangeEquationViewModel.cs File Reference

### Classes

- interface [MobileXamarin.IViewModels.ILagrangeEquationViewModel](#)  
*Lagrange interpolation equation viewmodel*

## Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.IViewModels](#)

## Typedefs

- using [Point](#) = [MobileXamarin.Models.Point](#)

### 7.16.1 Typedef Documentation

#### 7.16.1.1 Point

```
using Point = MobileXamarin.Models.Point
```

Definition at line 7 of file ILagrangeEquationViewModel.cs.

## 7.17 IViewModels/IResultViewModel.cs File Reference

### Classes

- interface [MobileXamarin.IViewModels.IResultViewModel](#)  
*Result viewmodel*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.IViewModels](#)

## 7.18 IViewModels/IRocketEquationViewModel.cs File Reference

### Classes

- interface [MobileXamarin.IViewModels.IRocketEquationViewModel](#)  
*Rocket equation view model*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.IViewModels](#)

## 7.19 Models/Equation.cs File Reference

### Classes

- class [MobileXamarin.Models.Equation](#)  
*Equation model*



## Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Models](#)

## 7.20 Models/Point.cs File Reference

### Classes

- class [MobileXamarin.Models.Point](#)  
*Point with double type parameters*

## Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Models](#)

## 7.21 Models/Result.cs File Reference

### Classes

- class [MobileXamarin.Models.Result](#)  
*Result holder for any equations*

## Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Models](#)

## 7.22 Models/RocketParameter.cs File Reference

### Classes

- class [MobileXamarin.Models.RocketParameter](#)  
*Parameters of the rocket*

## Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Models](#)

## 7.23 obj/Debug/netstandard2.0/App.xaml.g.cs File Reference

### Classes

- class [MobileXamarin.App](#)  
*Core class for Xamarin app*

### Namespaces

- namespace [MobileXamarin](#)

## 7.24 obj/Debug/netstandard2.0/MobileXamarin.App.xaml.g.cs File Reference

### Classes

- class [MobileXamarin.App](#)  
*Core class for Xamarin app*

### Namespaces

- namespace [MobileXamarin](#)

## 7.25 obj/Debug/netstandard2.0/MobileXamarin.AssemblyInfo.cs File Reference

## 7.26 obj/Debug/netstandard2.0/MobileXamarin.Views.DetailsView.xaml.g.cs File Reference

### Classes

- class [MobileXamarin.Views.DetailsView](#)

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Views](#)

## 7.27 obj/Debug/netstandard2.0/MobileXamarin.Views.ForgotPasswordView.xaml.g.cs File Reference

### Classes

- class [MobileXamarin.Views.ForgotPasswordView](#)

## Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Views](#)

## 7.28 obj/Debug/netstandard2.0/MobileXamarin.Views.HomeView.xaml.g.cs File Reference

### Classes

- class [MobileXamarin.Views.HomeView](#)  
*Home view class*

## Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Views](#)

## 7.29 obj/Debug/netstandard2.0/MobileXamarin.Views.SignInView.xaml.g.cs File Reference

### Classes

- class [MobileXamarin.Views.SignInView](#)

## Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Views](#)

## 7.30 obj/Debug/netstandard2.0/MobileXamarin.Views.SignUpView.xaml.g.cs File Reference

### Classes

- class [MobileXamarin.Views.SignUpView](#)

## Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Views](#)

## 7.31 obj/Debug/netstandard2.0/Views/HomeView.xaml.g.cs File Reference

### Classes

- class [MobileXamarin.Views.HomeView](#)  
*Home view class*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Views](#)

## 7.32 obj/Debug/netstandard2.0/Views/KineticEnergyEquationView.xaml.g.cs File Reference

### Classes

- class [MobileXamarin.Views.KineticEnergyEquationView](#)  
*Kinetic energy view*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Views](#)

## 7.33 obj/Debug/netstandard2.0/Views/LagrangeEquationView.xaml.g.cs File Reference

### Classes

- class [MobileXamarin.Views.LagrangeEquationView](#)  
*Lagrange view*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Views](#)

## 7.34 obj/Debug/netstandard2.0/Views/ResultView.xaml.g.cs File Reference

### Classes

- class [MobileXamarin.Views.ResultView](#)  
*Result view*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Views](#)

## 7.35 obj/Debug/netstandard2.0/Views/RocketEquationView.xaml.g.cs File Reference

### Classes

- class [MobileXamarin.Views.RocketEquationView](#)  
*Rocket view*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Views](#)

## 7.36 Repository/EquationRepository.cs File Reference

### Classes

- class [MobileXamarin.Repository.EquationRepository](#)

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Repository](#)

## 7.37 Repository/IEquationRepository.cs File Reference

### Classes

- interface [MobileXamarin.Repository.IEquationRepository](#)  
*Repository for equations*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Repository](#)

## 7.38 Repository/UnitRepository.cs File Reference

### Classes

- class **MobileXamarin.Repository.UnitRepository**  
*Repository for units*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Repository](#)

## 7.39 ViewModels/BaseViewModel.cs File Reference

### Classes

- class [MobileXamarin.ViewModels.BaseViewModel](#)  
*Base class for view models*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.ViewModels](#)

## 7.40 ViewModels/EquationViewModelBase.cs File Reference

### Classes

- class [MobileXamarin.ViewModels.EquationViewModelBase](#)  
*Abstract base class for equation view models*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.ViewModels](#)

## 7.41 ViewModels/HomeViewModel.cs File Reference

### Classes

- class [MobileXamarin.ViewModels.HomeViewModel](#)  
*Home view model IHomeViewModel*

## Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.ViewModels](#)

## Typedefs

- using [INavigationService](#) = Xamarin.Forms.Navigation.INavigationService

### 7.41.1 Typedef Documentation

#### 7.41.1.1 INavigationService

using [INavigationService](#) = Xamarin.Forms.Navigation.INavigationService

Definition at line 10 of file HomeViewModel.cs.

## 7.42 ViewModels/KineticEnergyEquationViewModel.cs File Reference

### Classes

- class [MobileXamarin.ViewModels.KineticEnergyEquationViewModel](#)  
*Kinetic Energy Equation ViewModel*

## Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.ViewModels](#)

## 7.43 ViewModels/LagrangeEquationViewModel.cs File Reference

### Classes

- class [MobileXamarin.ViewModels.LagrangeEquationViewModel](#)  
*Lagrange interpolation viewmodel*

## Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.ViewModels](#)

## Typedefs

- using [Point](#) = [MobileXamarin.Models.Point](#)

### 7.43.1 Typedef Documentation

#### 7.43.1.1 Point

```
using Point = MobileXamarin.Models.Point
```

Definition at line 16 of file LagrangeEquationViewModel.cs.

## 7.44 ViewModels/ResultViewModel.cs File Reference

### Classes

- class [MobileXamarin.ViewModels.ResultViewModel](#)  
*Result viewmodel*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.ViewModels](#)

## 7.45 ViewModels/RocketEquationViewModel.cs File Reference

### Classes

- class [MobileXamarin.ViewModels.RocketEquationViewModel](#)  
*Rocket equation viewmodel*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.ViewModels](#)

## 7.46 ViewModels/ViewModelLocator.cs File Reference

### Classes

- class [MobileXamarin.ViewModels.ViewModelLocator](#)  
*IoC container*



### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.ViewModels](#)

## 7.47 Views/HomeView.xaml.cs File Reference

### Classes

- class [MobileXamarin.Views.HomeView](#)  
*Home view class*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Views](#)

## 7.48 Views/KineticEnergyEquationView.xaml.cs File Reference

### Classes

- class [MobileXamarin.Views.KineticEnergyEquationView](#)  
*Kinetic energy view*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Views](#)

## 7.49 Views/LagrangeEquationView.xaml.cs File Reference

### Classes

- class [MobileXamarin.Views.LagrangeEquationView](#)  
*Lagrange view*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Views](#)

### Typedefs

- using [Point](#) = [MobileXamarin.Models.Point](#)

## 7.49.1 Typedef Documentation

### 7.49.1.1 Point

```
using Point = MobileXamarin.Models.Point
```

Definition at line 5 of file LagrangeEquationView.xaml.cs.

## 7.50 Views/ResultView.xaml.cs File Reference

### Classes

- class [MobileXamarin.Views.ResultView](#)  
*Result view*

### Namespaces

- namespace [MobileXamarin](#)
- namespace [MobileXamarin.Views](#)

## 7.51 Views/RocketEquationView.xaml.cs File Reference

### Classes

- class [MobileXamarin.Views.RocketEquationView](#)  
*Rocket view*

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