

GUI

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1 Namespace Index

1.1 Package List

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

projectsoftawre	3
WeatherApp	3

2 Hierarchical Index

2.1 Class Hierarchy

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

Application	
projectsoftawre.App	3
DbContext	
WeatherApp.Main	4
Window	
WeatherApp.MainWindow	5
WeatherApp.MoreDataWindow	8

3 Class Index

3.1 Class List

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

projectsoftawre.App	
Interaction logic for App.xaml	3
WeatherApp.Main	
Represents the main database context for the WeatherApp	4
WeatherApp.MainWindow	
Represents the main window of the WeatherApp	5
WeatherApp.MoreDataWindow	
Represents a window displaying more data for selected devices in the WeatherApp	8

4 File Index

4.1 File List

Here is a list of all files with brief descriptions:

C:/Users/samer/OneDrive/Desktop/scas/projectsoftawre/App.xaml.cs	9
C:/Users/samer/OneDrive/Desktop/scas/projectsoftawre/connection.cs	9
C:/Users/samer/OneDrive/Desktop/scas/projectsoftawre/MainWindow.xaml.cs	9
C:/Users/samer/OneDrive/Desktop/scas/projectsoftawre/MoreDataWindow.xaml.cs	10

5 Namespace Documentation

5.1 projectsoftawre Namespace Reference

Classes

- class [App](#)
Interaction logic for App.xaml.

5.2 WeatherApp Namespace Reference

Classes

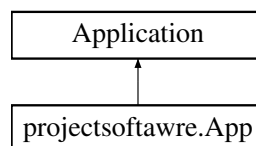
- class [Main](#)
Represents the main database context for the [WeatherApp](#).
- class [MainWindow](#)
Represents the main window of the [WeatherApp](#).
- class [MoreDataWindow](#)
Represents a window displaying more data for selected devices in the [WeatherApp](#).

6 Class Documentation

6.1 projectsoftawre.App Class Reference

Interaction logic for App.xaml.

Inheritance diagram for projectsoftawre.App:



6.1.1 Detailed Description

Interaction logic for App.xaml.

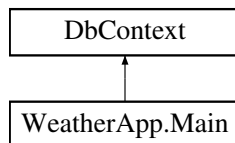
The documentation for this class was generated from the following file:

- C:/Users/samer/OneDrive/Desktop/scas/projectsoftawre/[App.xaml.cs](#)

6.2 WeatherApp.Main Class Reference

Represents the main database context for the [WeatherApp](#).

Inheritance diagram for WeatherApp.Main:



Protected Member Functions

- override void [OnConfiguring](#) (DbContextOptionsBuilder optionsBuilder)
Configures the database connection settings.

Properties

- DbSet< device > [device](#) [get, set]
Gets or sets the DbSet representing the 'device' table.
- DbSet< gateway > [gateway](#) [get, set]
Gets or sets the DbSet representing the 'gateway' table.
- DbSet< sensor_data > [sensor_data](#) [get, set]
Gets or sets the DbSet representing the 'sensor_data' table.
- DbSet< gateway_metadata > [gateway_metadata](#) [get, set]
Gets or sets the DbSet representing the 'gateway_metadata' table.

6.2.1 Detailed Description

Represents the main database context for the [WeatherApp](#).

6.2.2 Member Function Documentation

OnConfiguring()

```
override void WeatherApp.Main.OnConfiguring (  
    DbContextOptionsBuilder optionsBuilder ) [protected]
```

Configures the database connection settings.

Parameters

<i>optionsBuilder</i>	The options builder used for configuring the database context.
-----------------------	--

6.2.3 Property Documentation

device

```
DbSet<device> WeatherApp.Main.device [get], [set]
```

Gets or sets the DbSet representing the 'device' table.

gateway

```
DbSet<gateway> WeatherApp.Main.gateway [get], [set]
```

Gets or sets the DbSet representing the 'gateway' table.

gateway_metadata

```
DbSet<gateway_metadata> WeatherApp.Main.gateway_metadata [get], [set]
```

Gets or sets the DbSet representing the 'gateway_metadata' table.

sensor_data

```
DbSet<sensor_data> WeatherApp.Main.sensor_data [get], [set]
```

Gets or sets the DbSet representing the 'sensor_data' table.

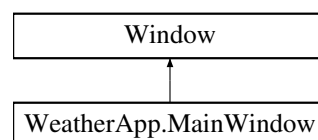
The documentation for this class was generated from the following file:

- C:/Users/samer/OneDrive/Desktop/scas/projectsoftawre/[connection.cs](#)

6.3 WeatherApp.MainWindow Class Reference

Represents the main window of the [WeatherApp](#).

Inheritance diagram for WeatherApp.MainWindow:



Public Member Functions

- [MainWindow\(\)](#)
Initializes a new instance of the MainWindow class.

Properties

- SeriesCollection [ChartSeriesCollection](#) [get, set]
Gets or sets the series collection for the charts.

Private Member Functions

- List< string > [GetSelectedDevices](#) ()
Gets a list of selected devices based on checkbox states.
- void [DisplayButton](#) (object sender, RoutedEventArgs e)
Handles the display button click event to show sensor data on the chart.
- void [ChartLoading](#) (object sender, RoutedEventArgs e)
Handles the chart loading event.
- void [HelpButton](#) (object sender, RoutedEventArgs e)
Displays a help message when the help button is clicked.
- void [SensorDataButton](#) (object sender, RoutedEventArgs e)
Opens a new window to display more sensor data when the sensor data button is clicked.

Private Attributes

- [Main](#) [Main](#)
Gets or sets the database context for the application.

6.3.1 Detailed Description

Represents the main window of the [WeatherApp](#).

6.3.2 Constructor & Destructor Documentation

MainWindow()

```
WeatherApp.MainWindow.MainWindow ( )
```

Initializes a new instance of the MainWindow class.

6.3.3 Member Function Documentation

ChartLoading()

```
void WeatherApp.MainWindow.ChartLoading (
    object sender,
    RoutedEventArgs e ) [private]
```

Handles the chart loading event.

Parameters

<i>sender</i>	The object that raised the event.
<i>e</i>	The event arguments.

DisplayButton()

```
void WeatherApp.MainWindow.DisplayButton (
    object sender,
    RoutedEventArgs e ) [private]
```

Handles the display button click event to show sensor data on the chart.

Parameters

<i>sender</i>	The object that raised the event.
<i>e</i>	The event arguments.

GetSelectedDevices()

```
List< string > WeatherApp.MainWindow.GetSelectedDevices ( ) [private]
```

Gets a list of selected devices based on checkbox states.

Returns

List of selected device IDs.

HelpButton()

```
void WeatherApp.MainWindow.HelpButton (
    object sender,
    RoutedEventArgs e ) [private]
```

Displays a help message when the help button is clicked.

Parameters

<i>sender</i>	The object that raised the event.
<i>e</i>	The event arguments.

SensorDataButton()

```
void WeatherApp.MainWindow.SensorDataButton (
    object sender,
    RoutedEventArgs e ) [private]
```


Opens a new window to display more sensor data when the sensor data button is clicked.

Parameters

<i>sender</i>	The object that raised the event.
<i>e</i>	The event arguments.

6.3.4 Member Data Documentation

Main

```
Main WeatherApp.MainWindow.Main [private]
```

Gets or sets the database context for the application.

6.3.5 Property Documentation

ChartSeriesCollection

```
SeriesCollection WeatherApp.MainWindow.ChartSeriesCollection [get], [set]
```

Gets or sets the series collection for the charts.

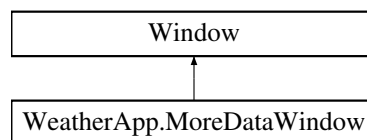
The documentation for this class was generated from the following file:

- C:/Users/samer/OneDrive/Desktop/scas/projectsoftawre/[MainWindow.xaml.cs](#)

6.4 WeatherApp.MoreDataWindow Class Reference

Represents a window displaying more data for selected devices in the [WeatherApp](#).

Inheritance diagram for WeatherApp.MoreDataWindow:



Public Member Functions

- [MoreDataWindow](#) (List< string > selectedDevices)
Initializes a new instance of the MoreDataWindow.

6.4.1 Detailed Description

Represents a window displaying more data for selected devices in the [WeatherApp](#).

6.4.2 Constructor & Destructor Documentation

MoreDataWindow()

```
WeatherApp.MoreDataWindow.MoreDataWindow (
    List< string > selectedDevices )
```

Initializes a new instance of the MoreDataWindow.

Parameters

<code>selectedDevices</code>	The list of selected device IDs.
------------------------------	----------------------------------

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

- [C:/Users/samer/OneDrive/Desktop/scas/projectsoftawre/MoreDataWindow.xaml.cs](#)

7 File Documentation

7.1 C:/Users/samer/OneDrive/Desktop/scas/projectsoftawre/App.xaml.cs File Reference

Classes

- class [projectsoftawre.App](#)
Interaction logic for App.xaml.

Namespaces

- namespace [projectsoftawre](#)

7.2 C:/Users/samer/OneDrive/Desktop/scas/projectsoftawre/connection.cs File Reference

Classes

- class [WeatherApp.Main](#)
Represents the main database context for the [WeatherApp](#).

Namespaces

- namespace [WeatherApp](#)

7.3 C:/Users/samer/OneDrive/Desktop/scas/projectsoftawre/MainWindow.xaml.cs File Reference

Classes

- class [WeatherApp.MainWindow](#)
Represents the main window of the [WeatherApp](#).

Namespaces

- namespace [WeatherApp](#)

Typedefs

- using [MessageBox](#) = System.Windows.Forms.MessageBox

7.3.1 Typedef Documentation

MessageBox

```
using MessageBox = System.Windows.Forms.MessageBox
```

7.4 C:/Users/samer/OneDrive/Desktop/scas/projectsoftawre/MoreDataWindow.xaml.cs File Reference

Classes

- class [WeatherApp.MoreDataWindow](#)
Represents a window displaying more data for selected devices in the [WeatherApp](#).

Namespaces

- namespace [WeatherApp](#)

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