

LinksPlatform's Platform.Setters Class Library

1.1 ./SetterBase[TResult].cs

```
1 using System.Runtime.CompilerServices;
2 using Platform.Interfaces;
3
4 #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
5
6 namespace Platform.Setters
7 {
8     /// <remarks>
9     /// Must be class, not struct (in order to persist access to Result property value).
10    /// </remarks>
11    public abstract class SetterBase<TResult> : ISetter<TResult>
12    {
13        protected TResult _result;
14        public TResult Result => _result;
15        protected SetterBase() { }
16        protected SetterBase(TResult defaultValue) => _result = defaultValue;
17        [MethodImpl(MethodImplOptions.AggressiveInlining)]
18        public void Set(TResult value) => _result = value;
19    }
20 }
```

1.2 ./Setter[TResult, TDecision].cs

```
1 using System.Collections.Generic;
2 using System.Runtime.CompilerServices;
3
4 #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
5
6 namespace Platform.Setters
7 {
8     public class Setter<TResult, TDecision> : SetterBase<TResult>
9     {
10        private readonly TDecision _trueValue;
11        private readonly TDecision _falseValue;
12
13        public Setter(TDecision trueValue, TDecision falseValue, TResult defaultValue)
14            : base(defaultValue)
15        {
16            _trueValue = trueValue;
17            _falseValue = falseValue;
18        }
19
20        public Setter(TDecision trueValue, TDecision falseValue) : this(trueValue, falseValue,
21            ↪ default) { }
22
23        public Setter(TResult defaultValue) : base(defaultValue) { }
24
25        public Setter() { }
26
27        [MethodImpl(MethodImplOptions.AggressiveInlining)]
28        public TDecision SetAndReturnTrue(TResult value)
29        {
30            _result = value;
31            return _trueValue;
32        }
33
34        [MethodImpl(MethodImplOptions.AggressiveInlining)]
35        public TDecision SetAndReturnFalse(TResult value)
36        {
37            _result = value;
38            return _falseValue;
39        }
40
41        [MethodImpl(MethodImplOptions.AggressiveInlining)]
42        public TDecision SetFirstAndReturnTrue(ICollection<TResult> list)
43        {
44            _result = list[0];
45            return _trueValue;
46        }
47
48        [MethodImpl(MethodImplOptions.AggressiveInlining)]
49        public TDecision SetFirstAndReturnFalse(ICollection<TResult> list)
50        {
51            _result = list[0];
52            return _falseValue;
53        }
54    }
55 }
```

1.3 ./Setter[TResult].cs

```
1 using System.Runtime.CompilerServices;
2
3 #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
4
5 namespace Platform.Setters
6 {
7     public class Setter<TResult> : SetterBase<TResult>
8     {
9         public Setter(TResult defaultValue) : base(defaultValue) { }
10
11         public Setter() { }
12
13         [MethodImpl(MethodImplOptions.AggressiveInlining)]
14         public bool SetAndReturnTrue(TResult value)
15         {
16             _result = value;
17             return true;
18         }
19
20         [MethodImpl(MethodImplOptions.AggressiveInlining)]
21         public bool SetAndReturnFalse(TResult value)
22         {
23             _result = value;
24             return false;
25         }
26     }
27 }
```

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