

LinksPlatform's Platform.Setters Class Library

1.1 ./SetterBase[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     /// <remarks>
8     /// Must be class, not struct (in order to persist access to Result property value).
9     /// </remarks>
10    public abstract class SetterBase<TResult>
11    {
12        protected TResult _result;
13        public TResult Result => _result;
14        protected SetterBase() { }
15        protected SetterBase(TResult defaultValue) => _result = defaultValue;
16        [MethodImpl(MethodImplOptions.AggressiveInlining)]
17        public void Set(TResult value) => _result = value;
18    }
19 }
```

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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