

## LinksPlatform's Platform.Setters Class Library

### ./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 }
```

### ./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 }
```

### ./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)
```

```
28     {
29         _result = value;
30         return _trueValue;
31     }
32
33     [MethodImpl(MethodImplOptions.AggressiveInlining)]
34     public TDecision SetAndReturnFalse(TResult value)
35     {
36         _result = value;
37         return _falseValue;
38     }
39
40     [MethodImpl(MethodImplOptions.AggressiveInlining)]
41     public TDecision SetFirstAndReturnTrue(ICollection<TResult> list)
42     {
43         _result = list[0];
44         return _trueValue;
45     }
46
47     [MethodImpl(MethodImplOptions.AggressiveInlining)]
48     public TDecision SetFirstAndReturnFalse(ICollection<TResult> list)
49     {
50         _result = list[0];
51         return _falseValue;
52     }
53 }
54 }
```

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