```
...kursova)\BloodLetter\GameDemo.Shared\MenuOption.cs
```

```
1
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```
1 using Microsoft.Xna.Framework;
 2 using Microsoft.Xna.Framework.Content;
 3 using Microsoft.Xna.Framework.Graphics;
 4 using Microsoft.Xna.Framework.Input.Touch;
 5 using System;
 6 using System.Collections.Generic;
 7 using System.Text;
 8
9 namespace GameDemo.Shared.Menu
10 {
        class MenuOption
11
12
        {
13
           int scale;
14
           /// <summary>
15
           /// The GUIElement's texture
16
17
           /// </summary>
18
           private Texture2D guiTexture;
19
20
           /// <summary>
           /// The GUIElement's rectangle, this is used to determine if the
21
              lement is clicked
22
           /// </summary>
23
           private Rectangle guiRectangle;
24
           /// <summary>
25
           /// The name of the GUIElement, we need this to select a specific
26
              element
27
           /// </summary>
           private string elementName;
28
29
30
           /// <summary>
           /// Proptery to get the element's name
31
32
           /// </summary>
33
           public string ElementName
34
           {
                get { return elementName; }
35
36
           }
37
           /// <summary>
38
           /// Delegate used to the Element clicked event
39
40
           /// </summary>
           /// <param name="element">Name of the clicked element</param>
41
           public delegate void ElementClicked(string element);
42
43
           /// <summary>
44
45
           /// Event triggered every time an element is clicked
46
           /// </summary>
47
           public event ElementClicked clickEvent;
48
           /// <summary>
49
           /// The GUIElements constructor
50
           /// </summary>
51
           /// <param name="name">name of the element(also name of the texture)
52
              param>
53
           public MenuOption(string name,int scale)
```

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54
55
56
                 this.scale = scale;
57
                 elementName = name;
58
             }
59
60
             /// <summary>
61
62
             /// Loads the element's texture
63
             /// </summary>
             /// <param name="content"></param>
64
             public virtual void LoadContent(ContentManager content)
65
66
67
                 guiTexture = content.Load<Texture2D>(elementName);
             }
68
 69
             /// <summary>
70
             /// The update checks if the GUIElement is clicked
71
72
             /// </summary>
73
             public virtual void Update(GestureSample gesture)
74
             {
75
76
77
                     if (guiRectangle.Contains(new Point((int))gesture.Position.X,
                       (int)gesture.Position.Y)) && gesture.GestureType ==
                       GestureType.Tap)
78
                     {
79
80
                         //This element was clicked
                         clickEvent(elementName);
81
82
83
                     }
             }
84
85
86
             /// <summary>
87
             /// Draws the GUIElement
88
89
             /// </summary>
             /// <param name="spriteBatch">SpriteBatch</param>
90
             public virtual void Draw(SpriteBatch spriteBatch)
91
92
93
                 spriteBatch.Draw(guiTexture, guiRectangle, Color.White);
94
             }
95
96
             /// <summary>
             /// Centers the GUIElement in the GameWindow
97
98
             /// </summary>
             /// <param name="windowSize"></param>
99
100
             public void CenterElement(Size windowSize)
101
                 guiRectangle = new Rectangle
102
103
104
                         (windowSize.height / 2) - (this.guiTexture.Width / 2),
```

(windowSize.width / 2) - (this.guiTexture.Height / 2),

guiTexture.Width*scale,

guiTexture.Height*scale

105106

107

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```
108
                     );
109
             }
110
111
             /// <summary>
112
            /// Move the GUIElement
113
            /// </summary>
            /// <param name="x">X-Offset</param>
114
             /// <param name="y">Y-Offset</param>
115
            public void MoveElement(int x, int y)
116
117
118
                 guiRectangle = new Rectangle
119
                     (
                         guiRectangle.X + x,
120
121
                         guiRectangle.Y + y,
122
                         guiRectangle.Width,
123
                         guiRectangle.Height
124
                     );
125
             }
126
         }
127 }
128
129
```