```
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;
9 namespace GameDemo.Shared.Menu
10 {
        struct Size
11
12
        {
            public int height { get; private set; }
13
14
            public int width { get; private set; }
15
16
            public Size(int width, int height) : this()
17
18
19
                this.height = height;
20
                this.width = width;
21
            }
22
23
24
        }
25
        /// <summary>
        /// Enum used to determine the current GameState
26
27
        /// </summary>
        public enum GameState { mainMenu, howTo, inGame, enterName,
28
          viewLeaderboards,over }
29
30
        class MainMenu
31
32
33
            private List<List<MenuOption>> menus;
34
            public MainMenu()
35
36
37
                //Adds lists of GUI elements to the menu list
38
                menus = new List<List<MenuOption>>
39
                    //MainMenu
40
                    (new List<MenuOption>
41
                    {
                        new MenuOption("playButton",2),
42
                        new MenuOption("scoresButton",2),
43
                        new MenuOption("quitButton",2)
44
                    }),
45
46
                    //Enter name menu
47
                    (new List<MenuOption>
48
                    {
49
                        new MenuOption("doneButton",2),
50
                    })
51
52
                };
53
                //Sets the OnClick event on all menu items
                for (int i = 0; i < menus.Count; i++)</pre>
54
55
```

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56
                     foreach (MenuOption button in menus[i])
57
                     {
                          button.clickEvent += OnClick;
58
59
                     }
 60
                 }
61
62
             }
63
64
             public void LoadContent(ContentManager content, Size windowSize)
65
             {
66
                 //Loads the content of all other GUI elements
67
                 for (int i = 0; i < menus.Count; i++)</pre>
68
69
                     foreach (MenuOption button in menus[i])
70
 71
                     {
                          button.LoadContent(content);
 72
                          button.CenterElement(windowSize);
73
74
75
                 }
                 //Sets offsets of the buttons
76
                 menus[0].Find(x \Rightarrow x.ElementName == "playButton").MoveElement
77
                   (-170, -350);
78
                 menus[0].Find(x => x.ElementName == "scoresButton").MoveElement
                   (-170, -100);
                 menus[0].Find(x \Rightarrow x.ElementName == "quitButton").MoveElement
79
                   (-170, 150);
                 menus[1].Find(x \Rightarrow x.ElementName == "doneButton").MoveElement
80
                   (-150, 300);
             }
81
82
83
             /// <summary>
             /// Updates all our GUI element(Mainly checks if any button is
84
               pressed)
85
             /// </summary>
             public void Update()
86
87
88
                 //Update each element according to the current gameState
89
                 switch (SpriteManager.gameState)
90
                 {
91
                     //If you are the mainMenu screen handle the current button
92
                        input
93
                     case GameState.mainMenu:
                          var gesture = default(GestureSample);
94
95
                          while (TouchPanel.IsGestureAvailable)
96
97
                              gesture = TouchPanel.ReadGesture();
98
                              foreach (MenuOption button in menus[0]) //MainMenu
99
                              {
100
                                  button.Update(gesture);
101
102
                              }
103
```

104

105

break;

```
106
                     //if you are at the leaderboards screen handle the current
                       button input
107
                     case GameState.viewLeaderboards:
108
                         gesture = default(GestureSample);
109
                         while (TouchPanel.IsGestureAvailable)
110
                             gesture = TouchPanel.ReadGesture();
111
112
                             foreach (MenuOption button in menus[1]) //MainMenu
113
114
115
                                 button.Update(gesture);
116
                             }
117
                         }
118
                         break;
                     case GameState.over:
119
120
                         break;
121
122
                 }
123
             }
124
125
             public void Draw(SpriteBatch spriteBatch)
126
127
                 //Draws each element according to the current gameState
128
                 switch (SpriteManager.gameState)
129
                 {
130
                     case GameState.mainMenu:
131
                         foreach (MenuOption button in menus[0]) //MainMenu
132
133
                             button.Draw(spriteBatch);
134
                         }
135
                         break;
136
                     case GameState.viewLeaderboards:
137
                         foreach (MenuOption button in menus[1])//leaderboards menu
138
                         {
                             button.Draw(spriteBatch);
139
140
                         }
141
                         break;
142
                     case GameState.inGame://Ingame GUI
143
                         break;
144
                 }
145
             }
146
147
             /// <summary>
148
149
             /// Method called every time a GUI element is clicked
150
             /// </summary>
             /// <param name="element"></param>
151
152
             public void OnClick(string element)
153
             {
154
                 if (element == "playButton")//PlayButton
155
                 {
156
                     SpriteManager.gameState = GameState.inGame;
157
158
                 if (element == "scoresButton")//scores button
159
                 {
160
                     SpriteManager.gameState = GameState.viewLeaderboards;
```

```
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161 }
162
                 if (element == "quitButton")//Quit button
163
                 {
164
                     SpriteManager.gameState = GameState.over;
165
                 }
                 if( element== "doneButton")
166
167
                     SpriteManager.gameState = GameState.mainMenu;
168
169
                 }
170
171
            }
         }
172
173 }
174
```