```
1 #region Using Statements
 2 using System;
 3 using System.Threading.Tasks;
 4 using Android.OS;
 5 using GameDemo.Shared.Menu;
 6 using Microsoft.Xna.Framework;
 7 using Microsoft.Xna.Framework.Graphics;
 8 using Microsoft.Xna.Framework.Input;
 9 using Microsoft.Xna.Framework.Input.Touch;
10 using SQLite;
11
12 #endregion
13
14 namespace GameDemo.Shared
15 {
16
       /// <summary>
17
       /// This is the main type for your game.
18
       /// </summary>
19
       public class Game1 : Game
20
       {
           GraphicsDeviceManager graphics;
21
           SpriteBatch spriteBatch;
22
23
           SpriteManager spriteManager;
24
           // scales the game to any aspect ratio and resolution of a screen
25
           public static Matrix screenScale = Matrix.Identity;
26
27
           public Game1()
28
29
            {
30
31
32
                graphics = new GraphicsDeviceManager(this);
33
34
                Content.RootDirectory = "Content";
35
               graphics.IsFullScreen = true;
36
37
38
                graphics.ApplyChanges();
39
40
               // add the handler corresponding to the display orientation
41
               if (this.Window.CurrentOrientation== DisplayOrientation.Portrait)
42
43
               this.Window.ClientSizeChanged += WindowSizeChange;
               else
44
45
                {
46
                    // no need to change anything
47
48
49
           }
50
51
           /// <summary>
           /// Allows the game to perform any initialization it needs to before
52
             starting to run.
53
            /// This is where it can query for any required services and load any 🤝
             non-graphic
           /// related content. Calling base.Initialize will enumerate through
54
```

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2
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```
any components
            /// and initialize them as well.
55
56
            /// </summary>
            protected override void Initialize()
57
58
                // TODO: Add your initialization logic here
59
                spriteManager = new SpriteManager(this);
60
61
                Components.Add(spriteManager);
62
                63
                   GestureType.Flick;
64
                base.Initialize();
65
66
            }
67
68
69
            /// <summary>
            /// LoadContent will be called once per game and is the place to load
70
71
            /// all of your content.
72
            /// </summary>
73
            protected override void LoadContent()
74
75
                // Create a new SpriteBatch, which can be used to draw textures.
76
                spriteBatch = new SpriteBatch(GraphicsDevice);
77
                //TODO: use this.Content to load your game content here
78
79
            }
80
81
            /// <summary>
            /// Allows the game to run logic such as updating the world,
82
            /// checking for collisions, gathering input, and playing audio.
83
84
            /// </summary>
            /// <param name="gameTime">Provides a snapshot of timing values.
85
              param>
            protected override void Update(GameTime gameTime)
86
                                                                // gameTime is
              actuallly used because every processor speed is different so we need →
               the time that HAS PASSED during the running of the game to code
87
            {
88
                if (GamePad.GetState(PlayerIndex.One).Buttons.Back ==
                  ButtonState.Pressed)
89
                    this.Exit();
                if (SpriteManager.gameState == GameState.over)
90
91
92
                    Process.KillProcess(Process.MyPid());
93
                }
95
96
                // For Mobile devices, this logic will close the Game when the
                  Back button is pressed
97
                // Exit() is obsolete on iOS
98
                // TODO: Add your update logic here
99
                base.Update(gameTime);
            }
100
101
            // if the resolution is changed (we are working with a 1920,1080 view)
102
103
            public void WindowSizeChange(object sender, EventArgs e)
```

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```

```
104
105
                                                                 var bw = GraphicsDevice.PresentationParameters.BackBufferWidth;
106
                                                                var bh = GraphicsDevice.PresentationParameters.BackBufferHeight;
107
                                                                 screenScale = Matrix.Identity * Matrix.CreateScale(bw / 1080, bh / →
                                                                            1920, 0f);
108
                                                 }
109
110
                                                 /// <summary>
111
                                                 /// This is called when the game should draw itself.
112
                                                 /// </summary>
                                                 /// <param name="gameTime">Provides a snapshot of timing values.
113
114
                                                 protected override void Draw(GameTime gameTime)
115
                                                 {
                                                                GraphicsDevice.Clear(Color.Black);
116
117
                                                                //TODO: Add your drawing code here
118
                                                                spriteBatch.Begin(SpriteSortMode.Deferred, null, null, null, null, pull, pull
119
                                                                            null, screenScale);
120
                                                                 spriteBatch.End();
121
122
                                                                base.Draw(gameTime);
123
124
                                                }
125
                                  }
126 }
127
```