```
1  /*-------------------------------------------------------------------------------------
2   * Author:       Dan Cassidy
3   * Date:         2015-06-23
4   * Assignment:   cView-P4
5   * Source File:  Statistics.aspx.cs
6   * Language:     C#
7   * Course:       CSCI-C 490, C# Programming, MoWe 08:00
8   * Purpose:      Code-behind file for Statistics.aspx.  Controls the statistics displayed.
9   -------------------------------------------------------------------------------------*/
10
11 using System;
12 using System.Collections.Generic;
13 using System.Globalization;
14 using System.Linq;
15 using System.Web;
16 using System.Web.UI;
17 using System.Web.UI.WebControls;
18
19 namespace cView_P4_DanCassidy
20 {
21     public partial class Statistics : System.Web.UI.Page
22     {
23         /*-------------------------------------------------------------------------------
24          * Name:    Page_Load
25          * Type:    Event Handler Method
26          * Purpose: Handles anything that should happen on page load. In this case, it calculates
27          *          and displays some statistics.
28          * Input:   object sender, holds a reference to the object that raised this event.
29          * Input:   EventArgs e, holds data related to this event.
30          * Output:  Nothing.
31          -------------------------------------------------------------------------------*/
32         protected void Page_Load(object sender, EventArgs e)
33         {
34             try
35             {
36                 using (CViewDataEntities database = new CViewDataEntities())
37                 {
38                     // Hijacked from http://stackoverflow.com/a/1206029.
39                     TextInfo textInfo = new CultureInfo("en-US", false).TextInfo;
40
41                     // Total number of parks.
42                     lblStatistics1.Text = database.Parks.Count().ToString();
43
44                     // Total number of parks, grouped by park type.
45                     lblStatistics2.Text = "";
46                     var parksByType = database.Parks.GroupBy(p => p.Type);
47                     foreach (var parkType in parksByType)
48                         lblStatistics2.Text += (parkType.Key == "" ? "(Empty)" :
49                             textInfo.ToTitleCase(parkType.Key.ToLower())) + ": " +
50                             parkType.Count() + "<br />";
51
52                     // Total number of businesses.
53                     lblStatistics3.Text = database.Businesses.Count().ToString();
54
55                     // Total number of license renewals for each business.
56                     lblStatistics4.Text = "";
57                     var businessRenewals = database.Businesses.Where(
58                         b => b.LicenseStatus == "Renewed").GroupBy(b => b.Name);
59                     foreach (var business in businessRenewals)
60                         lblStatistics4.Text += (business.Key == "" ? "(Empty)" :
61                             textInfo.ToTitleCase(business.Key.ToLower())) + ": " +
62                             business.Count() + "<br />";
63
64                     // Total number of facilities that have the substring "Fire"
65                     lblStatistics5.Text = database.PublicFacilities.Where(pf => pf.Name.Contains(
66                         "fire")).Count().ToString();
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67                    }
68                }
69            catch
70            {
71                lblError.Text = "Error: Could not calculate statistics.";
72                lblError.Visible = true;
73            }
74        }
75    }
76 }
```