```
 1  using System;
 2  using System.Collections.Generic;
 3  using System.Text;
 4  using System.Windows;
 5  using System.Windows.Controls;
 6  using System.Windows.Data;
 7  using System.Windows.Documents;
 8  using System.Windows.Input;
 9  using System.Windows.Media;
10  using System.Windows.Media.Imaging;
11  using System.Windows.Navigation;
12  using System.Windows.Shapes;
13
14
15  /*
16   * Title:   PageActivity CS
17   * Author:  Paul McKillop
18   * Date:    March 2020
19   * Purpose: Code behind for functionality
20   */
21
22
23  namespace GymTrackingV
24  {
25      /// <summary>
26      /// Interaction logic for PagePerson.xaml
27      /// </summary>
28      public partial class PagePerson : Page
29      {
30          internal bool formDataValid = false;
31
32          public PagePerson()
33          {
34              InitializeComponent();
35
36              ClearControls();
37
38              //-- DEBUG Data. Remove on completion
39              //PersonNameTextBox.Text = "Paul";
40              //PersonAgeTextBox.Text = "67";
41              //PersonWeightTextBox.Text = "170";
42          }
43
44          /// <summary>
45          /// Events raised on click
46          /// </summary>
47          /// <param name="sender"></param>
48          /// <param name="e"></param>
49          private void PagePersonClearButton_Click(object sender,
              RoutedEventArgs e)
50          {
51              ClearControls();
52          }
53
54          private void ActivitiesButton_Click(object sender, RoutedEventArgs e)
55          {
```

```
56
57          }
58
59          /// <summary>
60          /// Clears the interface controls and sets up for new
61          /// data entry
62          /// </summary>
63          private void ClearControls()
64          {
65              PersonNameTextBox.Text = string.Empty;
66              PersonAgeTextBox.Text = string.Empty;
67              PersonWeightTextBox.Text = string.Empty;
68
69              //-- set focus to name box. Logical GUI control.
70              //-- Help the user where you can.
71              PersonNameTextBox.Focus();
72          }
73
74          private Person HarvestData()
75          {
76              //-- data handler variables
77              var tempPerson = new Person();
78              var countOfValidFields = 0;
79
80              //-- set the rule in one place
81              var requiredValidFields = 3;
82
83              //-- Use Try .. Catch
84              try
85              {
86                  //-- validate the name data and assign if there
87                  if (!string.IsNullOrEmpty(PersonNameTextBox.Text))
88                  {
89                      tempPerson.PersonName = PersonNameTextBox.Text;
90                      countOfValidFields += 1;
91                  }
92                  else
93                  {
94                      MessageBox.Show("You must enter a name");
95                  }
96
97                  //-- validate the Age data
98                  if (!string.IsNullOrEmpty(PersonAgeTextBox.Text))
99                  {
100                     tempPerson.Age = Convert.ToInt32(PersonAgeTextBox.Text);
101                     countOfValidFields += 1;
102                 }
103                 else
104                 {
105                     MessageBox.Show("You must enter your Age");
106
107                 }
108
109                 //-- Validate the weight data
110                 if (!string.IsNullOrEmpty(PersonWeightTextBox.Text))
111                 {
```

```
112                     tempPerson.Weight = float.Parse(PersonWeightTextBox.Text);
113                     countOfValidFields += 1;
114                 }
115                 else
116                 {
117                     MessageBox.Show("You must enter your Weight");
118                 }
119 
120             }
121             catch (Exception)
122             {
123 
124                 throw;
125             }
126 
127             //-- Check if all required data present.
128             if (countOfValidFields == requiredValidFields)
129             {
130                 formDataValid = true;
131                 return tempPerson;
132             }
133             else
134             {
135                 MessageBox.Show("Form data is not valid");
136                 PersonNameTextBox.Focus();
137             }
138 
139             return tempPerson;
140 
141         }
142 
143     }
144 }
145 
```