```
1 using System;
 2 using System.Collections.Generic;
 3 using System.Linq;
 4 using System.Threading.Tasks;
 5 using System.Windows.Forms;
 6
 7 namespace SKOffice
 8 {
 9
       static class Program
10
           /// <summary>
11
           /// The main entry point for the application.
12
13
           /// </summary>
           [STAThread]
14
15
           static void Main()
16
           {
               Application.EnableVisualStyles();
17
               Application.SetCompatibleTextRenderingDefault(false);
18
19
               Application.Run(new MainForm());
20
           }
21
       }
22 }
23
```

```
1 using System;
 2 using System.Collections.Generic;
 3 using System.IO;
 4 using System.Threading;
 5 using System.Windows.Forms;
 6 using WcfService.domain.order;
 7
 8 namespace SKOffice
 9
10
        public partial class MainForm : Form
11
            OpenFileDialog ofd;
12
            public string[] paths;
13
14
            private List<OrderConfirmation> orderConfirmations;
            private int updates;
15
16
            private Thread updateThread;
17
            private int updateFrequency;
18
19
            /// <summary>
20
            /// Instantiates the listview including the columns.
            /// Creating and starting the thread that will auto update the list
21
            /// Instantiating variables
22
23
            /// </summary>
24
            public MainForm()
25
            {
                updates = 0;
26
27
                updateThread = new Thread(new ThreadStart(updateLoop));
28
                updateFrequency = 30000;
29
                updateThread.Start();
30
                paths = new string[3];
                InitializeComponent();
31
32
33
                // Set the view to show details.
34
                orderOverViewList.View = View.Details;
35
                // Display grid lines.
36
                orderOverViewList.GridLines = true;
37
38
39
                // Create columns for the items and subitems.
                // Width of -2 indicates auto-size.
40
                orderOverViewList.Columns.Add("Order ID", 150,
41
                  HorizontalAlignment.Center);
                orderOverViewList.Columns.Add("Started", 50,
42
                  HorizontalAlignment.Center);
43
                orderOverViewList.Columns.Add("Done", 50,
                  HorizontalAlignment.Center);
                orderOverViewList.Columns.Add("Started", 50,
44
                  HorizontalAlignment.Center);
45
                orderOverViewList.Columns.Add("Done", 50,
                  HorizontalAlignment.Center);
                orderOverViewList.Columns.Add("Started", 50,
46
                  HorizontalAlignment.Center);
                orderOverViewList.Columns.Add("Done", 50,
47
                  HorizontalAlignment.Center);
                orderOverViewList.Columns.Add("Started", 50,
48
                  HorizontalAlignment.Center);
```

```
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                 orderOverViewList.Columns.Add("Done", 50,
49
                   HorizontalAlignment.Center);
50
                 orderOverViewList.Columns.Add("Started", 50,
                                                                                      P
                   HorizontalAlignment.Center);
51
                 orderOverViewList.Columns.Add("Done", 50,
                   HorizontalAlignment.Center);
                 orderOverViewList.Columns.Add("Note", -2,
52
                                                                                      P
                   HorizontalAlignment.Left);
53
            }
54
            private void MainForm Load(object sender, EventArgs e)
55
56
             {
            }
57
58
            /// <summary>
59
            /// When the tabpage are clicked on, the list is updated
60
61
            /// </summary>
            /// <param name="sender"></param>
62
63
            /// <param name="e"></param>
            private void tabPage1_Click(object sender, EventArgs e)
64
65
            {
66
                 updateList();
67
             }
68
69
            /// <summary>
70
             /// When one of the browse buttons are clicked the user are prompted
71
              to browse for the e02 file.
72
             /// </summary>
            /// <param name="sender"></param>
73
 74
            /// <param name="e"></param>
75
            private void browse_Click(object sender, EventArgs e)
76
            {
77
                 ofd = new OpenFileDialog();
78
79
                 //fbd.RootFolder = Environment.SpecialFolder.Desktop;
80
81
                 Button btn = (Button)sender;
82
                 switch (btn.Name)
83
                 {
                     case "browseE02Btn":
84
                         ofd.Filter = "Text Files (.e02)|*.e02";
85
                         ofd.FilterIndex = 1;
86
87
                         ofd.Multiselect = false;
88
                         ofd.ShowDialog();
                         tb e02.Text = ofd.FileName;
89
90
                         paths[0] = tb_e02.Text;
91
                         break;
92
                     /*case "browseBlueprintBtn":
93
                         ofd.Filter = "Text Files (.pdf)|*.pdf";
94
                         ofd.FilterIndex = 1;
                         ofd.Multiselect = false;
95
96
                         ofd.ShowDialog();
97
                         tb_Blueprints.Text = ofd.FileName;
                         paths.Add(tb_Blueprints.Text);
98
99
                         break;
```

```
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100
                     case "browseRequisitionBtn":
101
                         ofd.Filter = "Text Files (.pdf)|*.pdf";
102
                         ofd.FilterIndex = 1;
103
                         ofd.Multiselect = false;
104
                         ofd.ShowDialog();
105
                         tb Requisition.Text = ofd.FileName;
106
                         paths.Add(tb_Requisition.Text);
107
                         break;*/
108
                     default:
109
                         break;
110
                 }
             }
111
112
113
             /// <summary>
             /// When the Upload button is Clicked, it will take the file from the 
ightharpoonup
114
               path and uploads it
             /// A box will show the status for the upload, if its uploaded Green 🕞
115
               and failed Red, idle is Blue
116
             /// </summary>
             /// <param name="sender"></param>
117
             /// <param name="e"></param>
118
             private void uploadBtn Click(object sender, EventArgs e)
119
120
             {
121
                 feedbackE02.BackColor = System.Drawing.Color.RoyalBlue; //
                   Feedback: idle
                 RestService.RestServiceClient rsClient = new
122
                   RestService.RestServiceClient();
123
124
                 //Read the content of the file into a string array
125
                 List<string> fileContent = new List<string>();
                 FileInfo fileInfo = new FileInfo(paths[0]);
126
                 fileContent.Add(fileInfo.Name);
127
                 using (StreamReader sReader = new StreamReader(paths[0]))
128
129
                 {
                     while (sReader.Peek() > -1)
130
                         fileContent.Add(sReader.ReadLine());
131
132
133
                 string msg = rsClient.addOrderConfirmation(fileContent.ToArray());
134
                 //Tries to add the order confirmation on the service
135
                 if (msg.StartsWith("OK"))
136
                 {
                     feedbackE02.BackColor = System.Drawing.Color.Green; //
137
                       Feedback: success
138
                     tb e02.Clear();
139
                     paths[0] = "";
140
                 }
141
                 else
142
                     feedbackE02.BackColor = System.Drawing.Color.Red; //Feedback: →
                 MessageBox.Show(msg , "Service Response");
143
             }
144
145
             /// <summary>
146
147
             /// Double clicking on an order number it will open a window
```

148

149

/// </summary>

/// <param name="sender"></param>

```
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```

```
2
```

```
150
             /// <param name="e"></param>
151
             private void clickedOrder(object sender, MouseEventArgs e)
152
             {
153
154
                 for (int i = 0; i < orderOverViewList.Items.Count; i++)</pre>
155
156
                     if (e.Y >= y \&\& e.Y <= y + 16)
157
                         Console.WriteLine(e.Y + " " + i);
158
159
                         OrderForm orderForm = new OrderForm(orderConfirmations
                         orderForm.Show();
160
161
                         break;
162
                     }
                     //each row is 16 pixels in height
163
164
                     //So each element is 0-16, 17-32, 33-48
165
                     y += 17;
166
                 }
167
             }
168
169
             private delegate void UniversalVoidDelegate();
170
171
             /// <summary>
             /// Recieves a call from the form and allows the listview to be
172
               updated from another thread.
             /// </summary>
173
174
             /// <param name="control"></param>
             /// <param name="function"></param>
175
             public static void controlInvoke(Control control, Action function)
176
177
178
                 if (control.IsDisposed || control.Disposing)
179
                     return;
180
181
                 if (control.InvokeRequired)
182
                     control.Invoke(new UniversalVoidDelegate(() => controlInvoke
183
                       (control, function)));
184
                     return;
185
186
                 function();
             }
187
188
189
             /// <summary>
190
             /// Updates the listview to contain orders from the database
               containing station status and notes
191
             /// </summary>
192
             private void updateList()
193
194
                 FormRestService.ServiceWGetClient rsClient = new
                   FormRestService.ServiceWGetClient();
195
                 orderConfirmations = new List<OrderConfirmation>();
196
197
                 try
198
                 {
                     //Clears the list
199
200
                     orderOverViewList.Items.Clear();
```

```
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201
202
                     //Creates the items in the list
203
                     foreach (FormRestService.OrderConfirmation oc in
                                                                                     P
                       rsClient.getAllActiveOrders())
204
205
                         orderConfirmations.Add((OrderConfirmation) oc);
                         orderOverViewList.Items.Add(new ListViewItem(new[]
206
                         {oc.OrderNumber + " " + oc.OrderDate.Day + "-" +
207
                         oc.OrderDate.Month + "-" + oc.OrderDate.Year,
208
                         (oc.StationStatus.Station4 == "Active" ||
                                                                                     P
                         (oc.StationStatus.Station4 == "Done")? "X": " "),
                         (oc.StationStatus.Station4 == "Done") ? "X" : " ",
209
                         (oc.StationStatus.Station5 == "Active" ||
210
                         (oc.StationStatus.Station5 == "Done")? "X": " "),
                         (oc.StationStatus.Station5 == "Done") ? "X" : "
211
                         (oc.StationStatus.Station6 == "Active" ||
212
                         (oc.StationStatus.Station6 == "Done")? "X": " "),
                         (oc.StationStatus.Station6 == "Done") ? "X" : " "
213
214
                         (oc.StationStatus.Station7 == "Active" ||
                         (oc.StationStatus.Station7 == "Done")? "X": " "),
                         (oc.StationStatus.Station7 == "Done") ? "X" : " ",
215
                         (oc.StationStatus.Station8 == "Active" ||
216
                         (oc.StationStatus.Station8 == "Done")? "X": " "),
                         (oc.StationStatus.Station8 == "Done") ? "X" : " ",
217
218
                         oc.Notes.Length + "" }));
219
220
                     //Resizes the last column to match the window.
                     int lastIndex = orderOverViewList.Columns.Count - 1;
221
222
                     orderOverViewList.Columns[lastIndex].AutoResize
                       (ColumnHeaderAutoResizeStyle.HeaderSize);
223
                 }
224
                 catch (Exception ex)
225
226
                     Console.WriteLine("Error: " + ex.Message);
227
                 }
228
            }
229
230
            /// <summary>
231
            /// Receives an int and return a boolean if there is an update.
232
             /// </summary>
233
            /// <returns></returns>
            private bool checkServiceUpdates()
234
235
236
                 FormRestService.ServiceWGetClient rsClient = new
                   FormRestService.ServiceWGetClient();
                 int serviceUpdates = rsClient.getUpdates();
237
                 bool result = !(serviceUpdates == updates);
238
239
                 updates = serviceUpdates;
240
                 return result;
241
            }
242
            /// <summary>
243
            /// Keep checking for an update every 30 sec
244
```

245

246

247

/// </summary>

private void updateLoop()

```
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248 while (true)
249
                  {
                      if (checkServiceUpdates())
250
                          controlInvoke(orderOverViewList, new Action(updateList));
251
                      Thread.Sleep(updateFrequency);
252
253
                  }
254
             }
255
256
         }
257 }
258
```

```
1 using System;
 2 using System.Collections.Generic;
 3 using System.ComponentModel;
 4 using System.Data;
 5 using System.Drawing;
 6 using System.Linq;
 7 using System.Text;
 8 using System.Threading.Tasks;
 9 using System.Windows.Forms;
10 using WcfService.domain.order;
11
12 namespace SKOffice
13 {
14
        public partial class OrderForm : Form
15
            public OrderConfirmation OrderConfirmation { get; private set; }
16
17
            public string OrderName { get; private set; }
18
            /// <summary>
19
            /// Renames the window with the OrderNumber
20
            /// </summary>
21
           /// <param name="orderConfirmation"></param>
22
           public OrderForm(OrderConfirmation orderConfirmation)
23
24
25
                this.OrderConfirmation = orderConfirmation;
26
                InitializeComponent();
27
                Text = "Order - " + orderConfirmation.OrderNumber;
28
            }
29
            /// <summary>
30
            /// Makes a status check if there is a link for the Blueprint and
31
              Requisition button
32
            /// </summary>
33
            /// <param name="sender"></param>
           /// <param name="e"></param>
           private void OrderForm_Load(object sender, EventArgs e)
35
36
37
                feedbackBp.BackColor = Color.Red;
38
                feedbackReq.BackColor = Color.Red;
                Console.WriteLine("NOTES: " + OrderConfirmation.Notes.Count);
39
40
                foreach (OrderNote note in OrderConfirmation.Notes)
41
                {
42
                    addNote(note.Text);
43
                }
            }
44
45
            /// <summary>
46
47
            /// Closes the window when you press the button "Close"
48
           /// </summary>
49
           /// <param name="sender"></param>
50
           /// <param name="e"></param>
           private void closeBtn Click(object sender, EventArgs e)
51
52
           {
53
                Close();
54
            }
55
```

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```

```
56
           /// <summary>
57
           /// Fills the text area with the note text.
           /// </summary>
58
           /// <param name="txt"></param>
59
60
           private void addNote(string txt)
61
               Console.WriteLine("Adding note: " + txt);
62
               noteTxt.Text += "-----Start Note-----\n";
63
               noteTxt.Text += txt + "\n";
64
65
               noteTxt.Text += "-----End Note-----\n";
66
           }
67
       }
68 }
69
```