

```
1  /*
2  * Author   : Dubas Loïc
3  * Class    : I.FA-P3B
4  * School   : CFPT-I
5  * Date     : June 2018
6  * Descr.   : edit the current loaded position
7  * Version  : 1.0
8  * Ext. dll : LeapCSharp.NET4.5
9  */
10
11 using System;
12 using System.Collections.Generic;
13 using System.ComponentModel;
14 using System.Data;
15 using System.Drawing;
16 using System.Linq;
17 using System.Text;
18 using System.Threading.Tasks;
19 using System.Windows.Forms;
20
21 namespace fingers_cloner
22 {
23     public partial class frmEdit : Form
24     {
25         #region initialization
26         // name and picture of the modele
27         string nameHandToEdit;
28         string imageHandToEdit;
29         // the hand to edit and the updated picture
30         MyHand handToEdit;
31         Bitmap loadedPicture;
32         string imageAsString;
33
34         // Initialize serialization functions
35         Serialization serialization;
36         #endregion
37
38         /// <summary>
39         /// default constructor
40         /// </summary>
41         /// <param name="modelHand">the position to edit</param>
42         public frmEdit(MyHand modelHand)
43         {
44             InitializeComponent();
45
46             handToEdit = modelHand;
47             nameHandToEdit = modelHand.Name;
48             imageHandToEdit = modelHand.Image;
49
50             serialization = new Serialization();
51
52             tbxName.Text = modelHand.Name;
53             tbxDescription.Text = modelHand.Description;
54         }
55
56         /// <summary>
```

```
57     /// validation is possible only if the textbox of the name isn't empty
58     /// </summary>
59     /// <param name="sender"></param>
60     /// <param name="e"></param>
61     private void tbxName_TextChanged(object sender, EventArgs e)
62     {
63         if (tbxName.Text.Length <= 0)
64         {
65             btnValidate.Enabled = false;
66         }
67         else
68         {
69             btnValidate.Enabled = true;
70         }
71     }
72
73     /// <summary>
74     /// validation is possible only if the textbox of the description isn't empty
75     /// </summary>
76     /// <param name="sender"></param>
77     /// <param name="e"></param>
78     private void tbxDescription_TextChanged(object sender, EventArgs e)
79     {
80         if (tbxDescription.Text.Length <= 0)
81         {
82             btnValidate.Enabled = false;
83         }
84         else
85         {
86             btnValidate.Enabled = true;
87         }
88     }
89
90     /// <summary>
91     /// open file dialog choose a picture and transform it in string
92     /// </summary>
93     /// <param name="sender"></param>
94     /// <param name="e"></param>
95     private void btnImage_Click(object sender, EventArgs e)
96     {
97         OpenFileDialog ofd = new OpenFileDialog();
98
99         ofd.InitialDirectory = "C:\\\\Users";
100        ofd.Filter = "Image files (*.png, *.jpg, *.jpeg, *.gif, *.bmp)|
        *.png;*.jpg;*.jpeg;*.gif;*.bmp";
101
102        if (ofd.ShowDialog() == DialogResult.OK)
103        {
104            loadedPicture = new Bitmap(ofd.FileName);
105            lblFileName.Text = ofd.SafeFileName;
106            lblFileName.Visible = true;
107            TypeConverter converter = TypeDescriptor.GetConverter(typeof
            (Bitmap));
108            imageAsString = Convert.ToBase64String((Byte[])
            converter.ConvertTo(loadedPicture, typeof(Byte[])));
109        }
110    }
```

```
109         }
110     }
111
112     /// <summary>
113     /// edit the hand
114     /// </summary>
115     /// <param name="sender"></param>
116     /// <param name="e"></param>
117     private void btnValidate_Click(object sender, EventArgs e)
118     {
119         handToEdit.Name = tbxName.Text;
120         handToEdit.Description = tbxDescription.Text;
121         if (loadedPicture == null)
122         {
123             imageAsString = imageHandToEdit;
124         }
125         else
126         {
127             handToEdit.Image = imageAsString;
128         }
129
130         serialization.deletePosition(nameHandToEdit);
131         serialization.serialize(handToEdit);
132     }
133 }
134 }
135
```