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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.Net;
8 using System.Security.Policy;
9 using System.Text;
10 using System.Threading.Tasks;
11 using System.Windows.Forms;
12
13 namespace TP2_App
14 {
15     public partial class Form1 : Form
16     {
17         public Form1()
18         {
19             InitializeComponent();
20         }
21
22         private void button1_Click(object sender, EventArgs e)
23         {
24             WSMeteo.meteo3ilSoapClient service = new WSMeteo.meteo3ilSoapClient("meteo3ilSoap");
25             String sDateValue = "";
26             String sDescValue = "";
27             String sTemp = service.Get_Value(1, out sDateValue, out sDescValue);
28             textBox1.Text = "Température : " + sTemp + " °C ";
29             textBox1.Text += " mesurée à " + sDateValue + Environment.NewLine;
30             textBox1.Text += sDescValue + Environment.NewLine;
31             String sPress = service.Get_Value(2, out sDateValue, out sDescValue);
32             textBox1.Text += "Pression : " + sPress + " hPa";
33             textBox1.Text += " mesurée à " + sDateValue + Environment.NewLine;
34             textBox1.Text += sDescValue;
35         }
36
37         private void button2_Click(object sender, EventArgs e)
38         {
39             WCFMeteo.Service1Client sr = new WCFMeteo.Service1Client();
40             WCFMeteo.MeteoData md = sr.Get_MeteoData(); // instancie un objet de la classe MeteoData définie dans le code du service
41             textBox2.Text = "Température : " + md.d_Temp.ToString("0.00") + " °C " + Environment.NewLine;
42             textBox2.Text += "Pression : " + md.d_Pres.ToString("0.0") + " hPa " + Environment.NewLine;
43             textBox2.Text += "Humidité : " + md.i_Hum.ToString() + " % " + Environment.NewLine;
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44         textBox2.Text += "mesurée le " + md.dt_Releve.ToString("dd/MM/yyyy à hh:mm") + Environment.NewLine;
45     }
46
47     private void button3_Click(object sender, EventArgs e)
48     {
49         String sUrl = "http://www.meteorestservice.lab3il.fr/ServiceRest.svc/meteo/1";
50         HttpWebRequest hr = (HttpWebRequest)WebRequest.Create(sUrl);
51         hr.Method = WebRequestMethods.Http.Get;
52         WebResponse wr = hr.GetResponse();
53         System.IO.StreamReader srd = new System.IO.StreamReader(wr.GetResponseStream());
54         String sText = srd.ReadLine(); // vaut >15.5<..>
55         sText = sText.Substring(sText.IndexOf(">") + 1); // vaut 15.5<..>
56         sText = sText.Substring(0, sText.IndexOf("<")); // vaut 15.5
57         textBox3.Text = "Température : " + sText + " °C" + Environment.NewLine;
58     }
59
60     private void button4_Click(object sender, EventArgs e)
61     {
62         MonService.ServiceClient ms = new MonService.ServiceClient();
63         String sTemp = ms.Meteo_GetTemperature();
64         textBox4.Text = "Température : " + sTemp + " °C";
65     }
66
67     private void button5_Click(object sender, EventArgs e)
68     {
69         MonService.ServiceClient ms = new MonService.ServiceClient();
70         String sDate = dateTimePicker1.Value.ToString("dd/MM/yyyy") + " " + comboBox1.Text;
71         String sDateReleve = "";
72         String sTemp = ms.Meteo_GetTemperatureByDate(sDate, out sDateReleve);
73         textBox4.Text = "Température : " + sTemp + " °C" + Environment.NewLine;
74         textBox4.Text += "mesurée le " + sDateReleve;
75     }
76
77     private void button6_Click(object sender, EventArgs e)
78     {
79         MonService.ServiceClient ms = new MonService.ServiceClient();
80         String sDate = dateTimePicker1.Value.ToString("dd/MM/yyyy");
81         DataSet ds = ms.Meteo_GetTemperatureByDay(sDate);
```

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82         chart1.DataSource = ds.Tables[0];
83         chart1.Series.Clear();
84         chart1.Series.Add("Temp");
85         chart1.Series[0].XValueMember = "DateReleveVC";
86         chart1.Series[0].YValueMembers = "Temp";
87         chart1.Series[0].ChartType = System.Windows.Forms.DataVisualization.Charting.SeriesChartType.Line;
88         chart1.Series[0].LegendText = "Température °C";
89
90         chart1.Series.Add("TempR");
91         chart1.Series[1].XValueMember = "DateReleveVC";
92         chart1.Series[1].YValueMembers = "TempR";
93         chart1.Series[1].ChartType = System.Windows.Forms.DataVisualization.Charting.SeriesChartType.Line;
94         chart1.Series[1].LegendText = "Temp ressentie °C";
95
96         chart1.Series.Add("TempPR");
97         chart1.Series[2].XValueMember = "DateReleveVC";
98         chart1.Series[2].YValueMembers = "TempPR";
99         chart1.Series[2].ChartType = System.Windows.Forms.DataVisualization.Charting.SeriesChartType.Point;
100        chart1.Series[2].LegendText = "Temp Point de Rosée °C";
101
102        chart1.DataBind();
103    }
104 }
105 }
106
```