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calculations and spreadsheet as database with spreadsheet sdk in C# and ByteScout Data Extraction Suite

calculations and spreadsheet as database with spreadsheet sdk in C#

Every ByteScout tool includes sampleC# source codes that you can find here or in the folder with installed ByteScout product. ByteScout Data Extraction Suite helps with calculations and spreadsheet as database with spreadsheet sdk in C#. ByteScout Data Extraction Suite is the bundle that includes three SDK tools for data extraction from PDF, scans, images and from spreadsheets: PDF Extractor SDK, Data Extraction SDK, Barcode Reader SDK.

This rich and prolific sample source code in C# for ByteScout Data Extraction Suite contains various functions and options you should do calling the API to implement calculations and spreadsheet as database with spreadsheet sdk. To use calculations and spreadsheet as database with spreadsheet sdk in your C# project or application just copy & paste the code and then run your app! Further improvement of the code will make it more robust.

Our website gives free trial version of ByteScout Data Extraction Suite. It includes all these source code samples with the purpose to assist you with your C# application implementation.

Source Code Files:

Form1.Designer.cs

```
namespace SimpleDatabase
{
    partial class Form1
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be disposed; other
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code

        /// <summary>
        /// Required method for Designer support - do not modify
        /// the contents of this method with the code editor.
        /// </summary>
        private void InitializeComponent()
        {
            System.ComponentModel.ComponentResourceManager resources = new System.Compo
            this.Label3 = new System.Windows.Forms.Label();
            this.TextBox3 = new System.Windows.Forms.TextBox();
            this.Label4 = new System.Windows.Forms.Label();
            this.Button2 = new System.Windows.Forms.Button();
            this.Button4 = new System.Windows.Forms.Button();
            this.Button1 = new System.Windows.Forms.Button();
            this.Button3 = new System.Windows.Forms.Button();
            this.TextBox4 = new System.Windows.Forms.TextBox();
            this.Label5 = new System.Windows.Forms.Label();
            this.TextBox2 = new System.Windows.Forms.TextBox();
            this.Label2 = new System.Windows.Forms.Label();
            this.GroupBox1 = new System.Windows.Forms.GroupBox();
            this.TextBox1 = new System.Windows.Forms.TextBox();
            this.Label1 = new System.Windows.Forms.Label();
            this.GroupBox1.SuspendLayout();
            this.SuspendLayout();
            //
            // Label3
            //
            this.Label3.AutoSize = true;
            this.Label3.Location = new System.Drawing.Point(6, 94);
            this.Label3.Name = "Label3";
            this.Label3.Size = new System.Drawing.Size(39, 13);
            this.Label3.TabIndex = 12;
```

```
            this.Label3.Text = "Label3";
            //
            // TextBox3
            //
            this.TextBox3.Location = new System.Drawing.Point(9, 110);
            this.TextBox3.Name = "TextBox3";
            this.TextBox3.Size = new System.Drawing.Size(135, 20);
            this.TextBox3.TabIndex = 11;
            //
            // Label4
            //
            this.Label4.AutoSize = true;
            this.Label4.Location = new System.Drawing.Point(6, 133);
            this.Label4.Name = "Label4";
            this.Label4.Size = new System.Drawing.Size(39, 13);
            this.Label4.TabIndex = 10;
            this.Label4.Text = "Label4";
            //
            // Button2
            //
            this.Button2.Location = new System.Drawing.Point(184, 45);
            this.Button2.Name = "Button2";
            this.Button2.Size = new System.Drawing.Size(100, 23);
            this.Button2.TabIndex = 7;
            this.Button2.Text = "Save to XLS";
            this.Button2.UseVisualStyleBackColor = true;
            this.Button2.Click += new System.EventHandler(this.Button2_Click);
            //
            // Button4
            //
            this.Button4.Font = new System.Drawing.Font("Microsoft Sans Serif", 8.25F,
            this.Button4.Location = new System.Drawing.Point(9, 175);
            this.Button4.Name = "Button4";
            this.Button4.Size = new System.Drawing.Size(135, 23);
            this.Button4.TabIndex = 14;
            this.Button4.Text = "Recalculate";
            this.Button4.UseVisualStyleBackColor = true;
            this.Button4.Click += new System.EventHandler(this.Button4_Click);
            //
            // Button1
            //
            this.Button1.Location = new System.Drawing.Point(184, 16);
            this.Button1.Name = "Button1";
            this.Button1.Size = new System.Drawing.Size(100, 23);
            this.Button1.TabIndex = 6;
            this.Button1.Text = "Load from XLS";
            this.Button1.UseVisualStyleBackColor = true;
            this.Button1.Click += new System.EventHandler(this.Button1_Click);
            //
            // Button3
            //
            this.Button3.Location = new System.Drawing.Point(184, 74);
            this.Button3.Name = "Button3";
            this.Button3.Size = new System.Drawing.Size(100, 23);
            this.Button3.TabIndex = 8;
            this.Button3.Text = "View in Excel";
            this.Button3.UseVisualStyleBackColor = true;
            this.Button3.Click += new System.EventHandler(this.Button3_Click);
            //
            // TextBox4
```

```
            //
            this.TextBox4.Location = new System.Drawing.Point(9, 149);
            this.TextBox4.Name = "TextBox4";
            this.TextBox4.Size = new System.Drawing.Size(135, 20);
            this.TextBox4.TabIndex = 13;
            //
            // Label5
            //
            this.Label5.Location = new System.Drawing.Point(9, 240);
            this.Label5.Name = "Label5";
            this.Label5.Size = new System.Drawing.Size(275, 113);
            this.Label5.TabIndex = 9;
            this.Label5.Text = resources.GetString("Label5.Text");
            //
            // TextBox2
            //
            this.TextBox2.Location = new System.Drawing.Point(9, 71);
            this.TextBox2.Name = "TextBox2";
            this.TextBox2.Size = new System.Drawing.Size(135, 20);
            this.TextBox2.TabIndex = 9;
            //
            // Label2
            //
            this.Label2.AutoSize = true;
            this.Label2.Location = new System.Drawing.Point(6, 55);
            this.Label2.Name = "Label2";
            this.Label2.Size = new System.Drawing.Size(39, 13);
            this.Label2.TabIndex = 8;
            this.Label2.Text = "Label2";
            //
            // GroupBox1
            //
            this.GroupBox1.Controls.Add(this.Button4);
            this.GroupBox1.Controls.Add(this.TextBox4);
            this.GroupBox1.Controls.Add(this.Label3);
            this.GroupBox1.Controls.Add(this.TextBox3);
            this.GroupBox1.Controls.Add(this.Label4);
            this.GroupBox1.Controls.Add(this.TextBox2);
            this.GroupBox1.Controls.Add(this.Label2);
            this.GroupBox1.Controls.Add(this.TextBox1);
            this.GroupBox1.Controls.Add(this.Label1);
            this.GroupBox1.Location = new System.Drawing.Point(12, 10);
            this.GroupBox1.Name = "GroupBox1";
            this.GroupBox1.Size = new System.Drawing.Size(166, 212);
            this.GroupBox1.TabIndex = 5;
            this.GroupBox1.TabStop = false;
            //
            // TextBox1
            //
            this.TextBox1.Location = new System.Drawing.Point(9, 32);
            this.TextBox1.Name = "TextBox1";
            this.TextBox1.Size = new System.Drawing.Size(135, 20);
            this.TextBox1.TabIndex = 7;
            //
            // Label1
            //
            this.Label1.AutoSize = true;
            this.Label1.Location = new System.Drawing.Point(6, 16);
            this.Label1.Name = "Label1";
            this.Label1.Size = new System.Drawing.Size(39, 13);
```

```
            this.Label1.TabIndex = 6;
            this.Label1.Text = "Label1";
            //
            // Form1
            //
            this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
            this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
            this.ClientSize = new System.Drawing.Size(292, 362);
            this.Controls.Add(this.Button2);
            this.Controls.Add(this.Button1);
            this.Controls.Add(this.Button3);
            this.Controls.Add(this.Label5);
            this.Controls.Add(this.GroupBox1);
            this.Name = "Form1";
            this.Text = "Form1";
            this.FormClosing += new System.Windows.Forms.FormClosingEventHandler(this.
            this.Load += new System.EventHandler(this.Form1_Load);
            this.GroupBox1.ResumeLayout(false);
            this.GroupBox1.PerformLayout();
            this.ResumeLayout(false);

        }

        #endregion

        internal System.Windows.Forms.Label Label3;
        internal System.Windows.Forms.TextBox TextBox3;
        internal System.Windows.Forms.Label Label4;
        internal System.Windows.Forms.Button Button2;
        internal System.Windows.Forms.Button Button4;
        internal System.Windows.Forms.Button Button1;
        internal System.Windows.Forms.Button Button3;
        internal System.Windows.Forms.TextBox TextBox4;
        internal System.Windows.Forms.Label Label5;
        internal System.Windows.Forms.TextBox TextBox2;
        internal System.Windows.Forms.Label Label2;
        internal System.Windows.Forms.GroupBox GroupBox1;
        internal System.Windows.Forms.TextBox TextBox1;
        internal System.Windows.Forms.Label Label1;
    }
}
```

Form1.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Diagnostics;
```

```
using System.Drawing;
using System.Text;
using System.Windows.Forms;

using Bytescout.Spreadsheet;

namespace SimpleDatabase
{
    public partial class Form1 : Form
    {
        Spreadsheet _spreadsheet;

        private void LoadXLS()
        {
            Worksheet worksheet;
            _spreadsheet = new Spreadsheet();
            _spreadsheet.LoadFromFile("Database.xls");

            worksheet = _spreadsheet.Workbook.Worksheets[0];
            Label1.Text = (string)worksheet.Cell("A1").Value;
            TextBox1.Text = worksheet.Cell("A2").Value.ToString();

            Label2.Text = (string)worksheet.Cell("B1").Value;
            TextBox2.Text = worksheet.Cell("B2").Value.ToString();

            Label3.Text = (string)worksheet.Cell("C1").Value;
            TextBox3.Text = worksheet.Cell("C2").Formula;

            Label4.Text = "Calculated value of C2";
            worksheet.Cell("C2").Calculate();
            TextBox4.Text = worksheet.Cell("C2").Value.ToString();
        }

        private void SaveXLS()
        {
            Worksheet worksheet;

            worksheet = _spreadsheet.Workbook.Worksheets[0];

            worksheet.Cell("A2").Value = System.Convert.ToInt32(TextBox1.Text);
            worksheet.Cell("B2").Value = System.Convert.ToInt32(TextBox2.Text);
            worksheet.Cell("C2").Formula = TextBox3.Text;

            try
            {
                System.IO.File.Delete("Database.xls");
            }
            catch (Exception ex)
            {
            }

            _spreadsheet.SaveAs("Database.xls");
        }

        public Form1()
        {
            InitializeComponent();
        }

        private void Form1_FormClosing(object sender, FormClosingEventArgs e)
```

```
        {
            SaveXLS();

            _spreadsheet.Close();
        }

        private void ReCalculate()
        {
            Worksheet worksheet;

            worksheet = _spreadsheet.Workbook.Worksheets[0];

            worksheet.Cell("A2").Value = System.Convert.ToInt32(TextBox1.Text);
            worksheet.Cell("B2").Value = System.Convert.ToInt32(TextBox2.Text);
            worksheet.Cell("C2").Formula = TextBox3.Text;
            worksheet.Cell("C2").Calculate();
            TextBox4.Text = worksheet.Cell("C2").Value.ToString();
        }

        private void Button4_Click(object sender, EventArgs e)
        {
            ReCalculate();
        }

        private void Form1_Load(object sender, EventArgs e)
        {
            LoadXLS();
        }

        private void Button3_Click(object sender, EventArgs e)
        {
            // open in default spreadsheets viewer/editor
            SaveXLS();
            try
            {
                Process.Start("Database.xls");
            }
            catch
            {
            }
        }

        private void Button1_Click(object sender, EventArgs e)
        {
            LoadXLS();
            MessageBox.Show("Loaded from Database.xls");
        }

        private void Button2_Click(object sender, EventArgs e)
        {
            SaveXLS();
            MessageBox.Show("Saved into Database.xls");
        }
    }
}
```

Program.cs

```
using System;
using System.Collections.Generic;
using System.Windows.Forms;

namespace SimpleDatabase
{
    static class Program
    {
        /// <summary>
        /// The main entry point for the application.
        /// </summary>
        [STAThread]
        static void Main()
        {
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new Form1());
        }
    }
}
```

VIDEO

https://www.youtube.com/watch?v=NEwNs2b9YN8

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