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1 <%@ Page language="c#" Src="SimpleReport.aspx.cs" Inherits="Web_CSharp.GeneratorExamples.SimpleReport" %>
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```
1 using System;
2 using System.Data;
3 using System.Data.SqlClient;
4 using ceTe.DynamicPDF;
5 using ceTe.DynamicPDF.PageElements;
6
7 namespace Web_CSharp.GeneratorExamples
8 {
9     public class SimpleReport : System.Web.UI.Page
10    {
11        // Template for document elements
12        private Template template = new Template();
13
14        // Page Dimensions of pages
15        private static PageDimensions pageDimensions = new PageDimensions( PageSize.Letter, PageOrientation.Portrait, 54.0f );
16        // Current page that elements are being added to
17        private ceTe.DynamicPDF.Page currentPage = null;
18        // Top Y coordinate for the body of the report
19        private float bodyTop = 38;
20        // Bottom Y coordinate for the body of the report
21        private float bodyBottom = pageDimensions.Body.Bottom - pageDimensions.Body.Top;
22        // Current Y coordinate where elements are being added
23        private float currentY = 0;
24
25        // Used to control the alternating background
26        private bool alternateBG = false;
27
28        // Connection string to the Northwind database
29        static string dBConnString =
30            System.Configuration.ConfigurationSettings.AppSettings["NorthWindConnectionString"];
31
32        private void Page_Load(object sender, System.EventArgs e)
33        {
34            // Create a document and set it's properties
35            Document document = new Document();
36            document.Creator = "SimpleReport.aspx";
37            document.Author = "ceTe Software";
38            document.Title = "Simple Report";
39
40            // Adds elements to the header template
41            SetTemplate();
42            document.Template = template;
43
44            // Establishes connection to the database
45            SqlConnection connection = GetOpenDBConn();
46            SqlDataReader data = GetContactListData( connection );
47
48            // Builds the report
49            BuildDocument( document, data );
50        }
51    }
52 }
```

```
51         // Cleans up database connections
52         data.Close();
53         connection.Close();
54
55         // Outputs the SimpleReport to the current web page
56         document.DrawToWeb( "SimpleReport.pdf" );
57     }
58
59     private void SetTemplate()
60     {
61         // Adds elements to the header template
62         template.Elements.Add( new Label( DateTime.Now.ToString("dd MMM yyyy, H:mm:ss EST"), 0, 0, 504, 12,
Font.HelveticaBold, 12 ) );
63         template.Elements.Add( new Label( "Northwind Product List", 0, 0, 504, 12, Font.HelveticaBold, 12, TextAlign.Center
) );
64         PageNumberingLabel pageNumLabel = new PageNumberingLabel( "Page %%CP%% of %%TP%%", 0, 0, 504, 12,
Font.HelveticaBold, 12, TextAlign.Right );
65         template.Elements.Add( pageNumLabel );
66         template.Elements.Add( new Label( "Product", 2, 23, 236, 11, Font.TimesBold, 11 ) );
67         template.Elements.Add( new Label( "Qty Per Unit", 242, 23, 156, 11, Font.TimesBold, 11 ) );
68         template.Elements.Add( new Label( "Unit Price", 402, 23, 100, 11, Font.TimesBold, 11, TextAlign.Right ) );
69         template.Elements.Add( new Line( 0, 36, 504, 36 ) );
70
71         // Uncomment the line below to add a layout grid to each page
72         //template.Elements.Add( new LayoutGrid() );
73     }
74
75     private void BuildDocument( Document document, SqlDataReader data )
76     {
77         // Builds the PDF document with data from the DataReader
78         AddNewPage( document );
79         while( data.Read() )
80         {
81             // Add current record to the document
82             AddRecord( document, data );
83         }
84     }
85
86     private void AddRecord( Document document, SqlDataReader data )
87     {
88         // Adds a new page to the document if needed
89         if( currentY > bodyBottom ) AddNewPage( document );
90
91         // Adds alternating background to document if needed
92         if( alternateBG )
93         {
94             currentPage.Elements.Add( new Rectangle( 0, currentY, 504, 18, RgbColor.Black, new WebColor( "E0E0FF" ), 0.0F )
);
95         }
96     }
```

```
97         // Adds Labels to the document with data from current record
98         currentPage.Elements.Add( new Label( data.GetString(0), 2, currentY + 3, 236, 11, Font.TimesRoman, 11 ) );
99         currentPage.Elements.Add( new Label( data.GetString(1), 242, currentY + 3, 156, 11, Font.TimesRoman, 11 ) );
100        currentPage.Elements.Add( new Label( data.GetDecimal(2).ToString( "0.00" ), 402, currentY + 3, 100, 11,
Font.TimesRoman, 11, TextAlign.Right ) );
101
102        // Toggles alternating background
103        alternateBG = !alternateBG;
104
105        // Increments the current Y position on the page
106        currentY += 18;
107    }
108
109    private void AddNewPage( Document document )
110    {
111        // Adds a new page to the document
112        currentPage = new Page( pageDimensions );
113        currentY = bodyTop;
114        alternateBG = false;
115        document.Pages.Add( currentPage );
116    }
117
118    private SqlConnection GetOpenDBConn()
119    {
120        // Creates and opens a database connection
121        SqlConnection connection = new SqlConnection( dBConnString );
122        connection.Open();
123        return connection;
124    }
125
126    private SqlDataReader GetContactListData( SqlConnection connection )
127    {
128        // Creates a DataReader for the report
129        SqlCommand command = connection.CreateCommand();
130        command.CommandText = "SELECT ProductName, QuantityPerUnit, UnitPrice FROM Products";
131        SqlDataReader dataReader = command.ExecuteReader();
132        return dataReader;
133    }
134 }
135 }
```