

## SimpleReport.aspx

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```
1 <%@ Page language="c#" Src="SimpleReport.aspx.cs" Inherits="Web_CSharp.GeneratorExamples.SimpleReport" %>
```

## SimpleReport.aspx.cs

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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 }
```

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```
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 }
```

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