SimpleReport.aspx

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

SimpleReport.aspx.cs

```
using System;
using System.Data;
using System.Data.SqlClient;
using ceTe.DynamicPDF;
using ceTe.DynamicPDF.PageElements;

namespace Web_CSharp.GeneratorExamples
{
    public class SimpleReport : System.Web.UI.Page
    {
        // Template for document elements
        private Template template = new Template();

        // Page Dimensions of pages
        private static PageDimensions pageDimensions = new PageDimensions( PageSize.Letter, PageOrientation.Portrait, 54.0f );
        // Current page that elements are being added to
        private ceTe.DynamicPDF.Page currentPage = null;
        // Top Y coordinate for the body of the report
        private float bodyTop = 38;
        // Bottom Y coordinate for the body of the report
        private float bodyBottom = pageDimensions.Body.Bottom - pageDimensions.Body.Top;
        // Current Y coordinate where elements are being added
        private float currentY = 0;

        // Used to control the alternating background
        private bool alternateBG = false;

        // Connection string to the Northwind database
        static string dBConnString =
            System.Configuration.ConfigurationSettings.AppSettings["NorthWindConnectionString"];

        private void Page_Load(object sender, System.EventArgs e)
        {
            // Create a document and set it's properties
            Document document = new Document();
            document.Creator = "SimpleReport.aspx";
            document.Author = "ceTe Software";
            document.Title = "Simple Report";

            // Adds elements to the header template
            SetTemplate();
            document.Template = template;

            // Establises connection to the database
            SqlConnection connection = GetOpenDBConn();
            SqlDataReader data = GetContactListData( connection );

            // Builds the report
            BuildDocument( document, data );

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            // Cleans up database connections
            data.Close();
            connection.Close();

            // Outputs the SimpleReport to the current web page
            document.DrawToWeb( "SimpleReport.pdf" );
        }

        private void SetTemplate()
        {
            // Adds elements to the header template
            template.Elements.Add( new Label( DateTime.Now.ToString("dd MMM yyyy, H:mm:ss EST"), 0, 0, 504, 12,
Font.HelveticaBold, 12 ) );
            template.Elements.Add( new Label( "Northwind Product List", 0, 0, 504, 12, Font.HelveticaBold, 12, TextAlign.Center
) );
            PageNumberingLabel pageNumLabel = new PageNumberingLabel( "Page %%CP%% of %%TP%%", 0, 0, 504, 12,
Font.HelveticaBold, 12, TextAlign.Right );
            template.Elements.Add( pageNumLabel );
            template.Elements.Add( new Label( "Product", 2, 23, 236, 11, Font.TimesBold, 11 ) );
            template.Elements.Add( new Label( "Qty Per Unit", 242, 23, 156, 11, Font.TimesBold, 11 ) );
            template.Elements.Add( new Label( "Unit Price", 402, 23, 100, 11, Font.TimesBold, 11, TextAlign.Right ) );
            template.Elements.Add( new Line( 0, 36, 504, 36 ) );

            // Uncomment the line below to add a layout grid to each page
            //template.Elements.Add( new LayoutGrid() );
        }

        private void BuildDocument( Document document, SqlDataReader data )
        {
            // Builds the PDF document with data from the DataReader
            AddNewPage( document );
            while( data.Read() )
            {
                // Add current record to the document
                AddRecord( document, data );
            }
        }

        private void AddRecord( Document document, SqlDataReader data )
        {
            // Adds a new page to the document if needed
            if( currentY > bodyBottom ) AddNewPage( document );

            // Adds alternating background to document if needed
            if( alternateBG )
            {
                currentPage.Elements.Add( new Rectangle( 0, currentY, 504, 18, RgbColor.Black, new WebColor( "E0E0FF" ), 0.0F )
);
            }

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            // Adds Labels to the document with data from current record
            currentPage.Elements.Add( new Label( data.GetString(0), 2, currentY + 3, 236, 11, Font.TimesRoman, 11 ) );
            currentPage.Elements.Add( new Label( data.GetString(1), 242, currentY + 3, 156, 11, Font.TimesRoman, 11 ) );
            currentPage.Elements.Add( new Label( data.GetDecimal(2).ToString( "0.00" ), 402, currentY + 3, 100, 11,
Font.TimesRoman, 11, TextAlign.Right ) );

            // Toggles alternating background
            alternateBG = !alternateBG;

            // Increments the current Y position on the page
            currentY += 18;
        }

        private void AddNewPage( Document document )
        {
            // Adds a new page to the document
            currentPage = new Page( pageDimensions );
            currentY = bodyTop;
            alternateBG = false;
            document.Pages.Add( currentPage );
        }

        private SqlConnection GetOpenDBConn()
        {
            // Creates and opens a database connection
            SqlConnection connection = new SqlConnection( dBConnString );
            connection.Open();
            return connection;
        }

        private SqlDataReader GetContactListData( SqlConnection connection )
        {
            // Creates a DataReader for the report
            SqlCommand command = connection.CreateCommand();
            command.CommandText = "SELECT ProductName, QuantityPerUnit, UnitPrice FROM Products";
            SqlDataReader dataReader = command.ExecuteReader();
            return dataReader;
        }
    }
}
```