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1 <%@ Page Language="vb" Src="ContactList.aspx.vb" Inherits="Web_VB.GeneratorExamples.ContactList" %>
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ContactList.aspx.vb

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1 Imports System
2 Imports System.Data
3 Imports System.Data.SqlClient
4
5 Imports ceTe.DynamicPDF
6 Imports ceTe.DynamicPDF.PageElements
7
8 Namespace Web_VB.GeneratorExamples
9     Public Class ContactList
10         Inherits System.Web.UI.Page
11
12     #Region " Member Variables "
13
14         'Top, bottom, left and right margins of report
15         Private Shared Margin As Single = 36
16         'Height of the header
17         Private Shared HeaderHeight As Single = 74
18         'Height of the footer
19         Private Shared FooterHeight As Single = 14
20         'Size of paper to use
21         Private Shared MyPageDimensions As PageDimensions = New PageDimensions(PageSize.Letter, PageOrientation.Landscape,
Margin)
22         'Bottom Y coordinate for the body of the report
23         Private Shared BodyBottom As Single = MyPageDimensions.Height - (Margin * 2) - FooterHeight
24
25         'Current MyPage that elements are being added to
26         Private CurrentPage As ceTe.DynamicPDF.Page = Nothing
27         'Template for header and footer elements
28         Private Shared MyTemplate As Template = Nothing
29         'Current Y coordinate where elements are being added
30         Private CurrentY As Single = 0
31         'Used to control the alternating background
32         Private AlternateBG As Boolean = False
33         'Used to test for grouping
34         Private CurrentFirstI As String = ""
35
36         'Connection string to the Northwind database
37         Private Shared DbConnString As String = _
38             System.Configuration.ConfigurationSettings.AppSettings("NorthWindConnectionString")
39
40     #End Region
41
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ContactList.aspx.vb

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42 #Region " Page_Load Method "  
43  
44     Private Sub Page_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load  
45         If (MyTemplate Is Nothing) Then  
46             SetTemplate()  
47         End If  
48  
49         'Create a MyDocument and set it's properties  
50         Dim MyDocument As Document = New Document  
51         MyDocument.Creator = "ContactList.aspx"  
52         MyDocument.Author = "ceTe Software"  
53         MyDocument.Title = "Contact List"  
54         MyDocument.Template = MyTemplate  
55  
56         'Establishes connection to the database  
57         Dim Connection As SqlConnection = GetOpenDBConn()  
58         Dim Data As SqlDataReader = GetContactListData(Connection)  
59  
60         'Builds the report  
61         BuildDocument(MyDocument, Data)  
62  
63         'Cleans up database connections  
64         Data.Close()  
65         Connection.Close()  
66  
67         'Outputs the ContactList to the current web MyPage  
68         MyDocument.DrawToWeb("ContactList.pdf")  
69     End Sub  
70  
71 #End Region  
72  
73 #Region " Private Methods "  
74  
75     Private Sub SetTemplate()  
76         MyTemplate = New Template  
77  
78         ' Uncomment the line below to add a layout grid to the each MyPage  
79         'MyTemplate.Elements.Add(New LayoutGrid())  
80  
81         ' Adds header elements to the template  
82         MyTemplate.Elements.Add(New Image(MapPath("../Images/DPDFLogo.png"), 0, 0, 0.21F))  
83         MyTemplate.Elements.Add(New Label("Northwind Traders", 0, 0, 720, 18, Font.HelveticaBold, 18, TextAlign.Center))
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84     MyTemplate.Elements.Add(New Label("Contact List", 0, 21, 720, 12, Font.Helvetica, 12, TextAlign.Center))
85     MyTemplate.Elements.Add(New Label(DateTime.Now.ToString("dd MMM yyyy, H:mm:ss EST"), 0, 36, 720, 12, Font.Helvetica,
86     12, TextAlign.Center))
87     MyTemplate.Elements.Add(New Rectangle(0, 56, 720, 16, Grayscale.Black, New WebColor("0000A0"), 0.0F))
88     MyTemplate.Elements.Add(New Label("Cust ID", 2, 56, 58, 12, Font.HelveticaBold, 12, TextAlign.Left,
89     Grayscale.White))
90     MyTemplate.Elements.Add(New Label("Company", 62, 56, 156, 12, Font.HelveticaBold, 12, TextAlign.Left,
91     Grayscale.White))
92     MyTemplate.Elements.Add(New Label("Contact", 222, 56, 156, 12, Font.HelveticaBold, 12, TextAlign.Left,
93     Grayscale.White))
94     MyTemplate.Elements.Add(New Label("Title", 362, 56, 156, 12, Font.HelveticaBold, 12, TextAlign.Left,
95     Grayscale.White))
96     MyTemplate.Elements.Add(New Label("Phone", 522, 56, 86, 12, Font.HelveticaBold, 12, TextAlign.Left,
97     Grayscale.White))
98     MyTemplate.Elements.Add(New Label("Fax", 622, 56, 86, 12, Font.HelveticaBold, 12, TextAlign.Left, Grayscale.White))
99
100     ' Adds footer elements to the template
101     Dim MyPageNumLabel As PageNumberingLabel = New PageNumberingLabel("Page %%CP(i)%% of %%TP(i)%%", 0, BodyBottom + 5,
102     720, 10, Font.Helvetica, 10, TextAlign.Center)
103     MyTemplate.Elements.Add(MyPageNumLabel)
104 End Sub
105
106 Private Sub BuildDocument(ByVal MyDocument As Document, ByVal Data As SqlDataReader)
107     'Builds the PDF MyDocument with data from the DataReader
108     AddNewPage(MyDocument)
109     While Data.Read()
110         'Add current record to the MyDocument
111         AddRecord(MyDocument, Data)
112     End While
113 End Sub
114
115 Private Sub AddRecord(ByVal MyDocument As Document, ByVal Data As SqlDataReader)
116     'Creates TextAreas that are expandable
117     Dim CompanyName As TextArea = New TextArea(Data.GetString(2), 62, CurrentY + 3, 156, 11, Font.TimesRoman, 11)
118     Dim ContactName As TextArea = New TextArea(Data.GetString(3), 222, CurrentY + 3, 136, 11, Font.TimesRoman, 11)
119     Dim ContactTitle As TextArea = New TextArea(Data.GetString(4), 362, CurrentY + 3, 156, 11, Font.TimesRoman, 11)
120
121     'Gets the height required for the current record
122     Dim RequiredHeight As Single = SetExpandableRecords(MyDocument, Data, CompanyName, ContactName, ContactTitle)
123
124     'Creates non expandable Labels
125     Dim CustomerID As Label = New Label(Data.GetString(0), 2, CurrentY + 3, 58, 11, Font.TimesRoman, 11)
126     Dim Phone As Label = New Label(Data.GetString(5), 522, CurrentY + 3, 96, 11, Font.TimesRoman, 11)
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120 Dim Fax As Label = Nothing
121 If Not Data.IsDBNull(6) Then
122     Fax = New Label(Data.GetString(6), 622, CurrentY + 3, 96, 11, Font.TimesRoman, 11)
123 End If
124
125 'Adds alternating background if required
126 If AlternateBG Then
127     CurrentPage.Elements.Add(New Rectangle(0, CurrentY, 720, RequiredHeight + 6, Grayscale.Black, New
WebColor("E0E0FF"), 0.0F))
128 End If
129
130 'Toggles alternating background
131 AlternateBG = Not AlternateBG
132
133 'Adds elements to the current MyPage
134 CurrentPage.Elements.Add(CustomerID)
135 CurrentPage.Elements.Add(CompanyName)
136 CurrentPage.Elements.Add(ContactName)
137 CurrentPage.Elements.Add(ContactTitle)
138 CurrentPage.Elements.Add(Phone)
139 If Not Data.IsDBNull(6) Then
140     CurrentPage.Elements.Add(Fax)
141 End If
142
143 'increments the current Y position on the MyPage
144 CurrentY += RequiredHeight + 6
145 End Sub
146
147 Private Function SetExpandableRecords(ByVal MyDocument As Document, ByVal Data As SqlDataReader, ByVal CompanyName As
TextArea, ByVal ContactName As TextArea, ByVal ContactTitle As TextArea) As Single
148     'Gets the maximum height required of the three TextAreas
149     Dim RequiredHeight As Single = GetMaxRecordHeight(CompanyName, ContactName, ContactTitle)
150
151     'Add space for the section header if required
152     Dim SectionHeaderHeight As Single = 0
153     If CurrentFirstI <> Data.GetString(1) Then
154         SectionHeaderHeight = 26
155     End If
156
157     'Add a new MyPage if needed
158     If BodyBottom < CurrentY + RequiredHeight + SectionHeaderHeight + 4 Then
159         AddNewPage(MyDocument)
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160         If SectionHeaderHeight = 0 Then
161             'Update Y coordinate of TextArea when placed on the new MyPage
162             CompanyName.Y = CurrentY + 3
163             ContactName.Y = CurrentY + 3
164             ContactTitle.Y = CurrentY + 3
165         End If
166     End If
167
168     'Add section header if required
169     If SectionHeaderHeight > 0 Then
170         AddSectionHeader(Data)
171         CompanyName.Y = CurrentY + 3
172         ContactName.Y = CurrentY + 3
173         ContactTitle.Y = CurrentY + 3
174     End If
175     Return RequiredHeight
176 End Function
177
178 Private Function GetMaxRecordHeight(ByVal CompanyName As TextArea, ByVal ContactName As TextArea, ByVal ContactTitle As
TextArea) As Single
179     'Returns the maximum required height of the three TextAreas
180     Dim RequiredHeight As Single = 11
181     Dim RequiredHeightB As Single = 0
182
183     RequiredHeight = CompanyName.GetRequiredHeight()
184     RequiredHeightB = ContactName.GetRequiredHeight()
185     If RequiredHeightB > RequiredHeight Then
186         RequiredHeight = RequiredHeightB
187     End If
188     RequiredHeightB = ContactTitle.GetRequiredHeight()
189     If RequiredHeightB > RequiredHeight Then
190         RequiredHeight = RequiredHeightB
191     End If
192
193     If RequiredHeight > 11 Then
194         CompanyName.Height = RequiredHeight
195         ContactName.Height = RequiredHeight
196         ContactTitle.Height = RequiredHeight
197     End If
198
199     Return RequiredHeight
200 End Function
```

```
201
202     Private Sub AddSectionHeader(ByVal Data As SqlDataReader)
203         'Adds a section header to the current Y coordinate of the current MyPage
204         CurrentFirstI = Data.GetString(1)
205         CurrentPage.Elements.Add(New Label("- " + CurrentFirstI + " -", 0, CurrentY + 6, 720, 18, Font.HelveticaBold, 18,
TextAlign.Center))
206
207         CurrentY += 26
208         AlternateBG = False
209     End Sub
210
211     Private Sub AddNewPage(ByVal MyDocument As Document)
212         'Adds a new MyPage to the document
213         CurrentPage = New Page(MyPageDimensions)
214
215         CurrentY = HeaderHeight
216         AlternateBG = False
217
218         MyDocument.Pages.Add(CurrentPage)
219     End Sub
220
221     Private Function GetOpenDBConn() As SqlConnection
222         'Creates and opens a database connection
223         Dim Connection As SqlConnection = New SqlConnection(DbConnString)
224         Connection.Open()
225         Return Connection
226     End Function
227
228     Private Function GetContactListData(ByVal Connection As SqlConnection) As SqlDataReader
229         'Creates a DataReader for the report
230         Dim Command As SqlCommand = Connection.CreateCommand()
231         Command.CommandText = "SELECT CustomerID, FirstL = Left(CompanyName,1), " & _
232             "CompanyName, ContactName, ContactTitle, Phone, Fax " & _
233             "FROM Customers ORDER BY CompanyName"
234         Dim DataReader As SqlDataReader = Command.ExecuteReader()
235
236         Return DataReader
237     End Function
238
239 #End Region
240
241     End Class
```

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242 End Namespace
```