C#Corner   Spire.PDF For Generating PDF

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Pradeep Shet   Jun 22 2015   Article

1   13   14.7k

I will be using Spire.NET to generate various types in PDFs. It is very simple, fast and easy to use.

To use this library, you need not install Acrobat Reader and the fabulous thing is that it can be integrated with .NET, so using the C# or VB.NET language we can create our PDF document easily.

Let me show some examples that will provide you a clear idea of generating a PDF. I will try to show the following combination of PDFs:

1. With text accepted from a textbox.
2. With an image.
3. Display the grid details shown on a screen into a PDF.
4. Password-protected PDF.

The following is the procedure to generate the PDF document:

Step 1

UI Code

```
01.  <asp:TextBox ID="txtFreeText" runat="server" TextMode="MultiLine" Height="146px" Width="465px">
     </asp:TextBox>
02.      <br />
03.       <h4>Upload Image</h4>
04.      <asp:FileUpload ID="FileUpload1" runat="server" />
05.      <br />
06.    <h4>Customers</h4>
07.      <asp:GridView ID="grdNames" runat="server" AutoGenerateColumns="false" GridLines="Vertical"
08.          <Columns>
09.              <asp:BoundField DataField="Id" HeaderText="Id" />
10.              <asp:BoundField DataField="FirstName" HeaderText="First Name" />
11.              <asp:BoundField DataField="LastName" HeaderText="Last Name" />
12.          </Columns>
13.      </asp:GridView>
14.  <br/>
15.  <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Load PDF" />
```
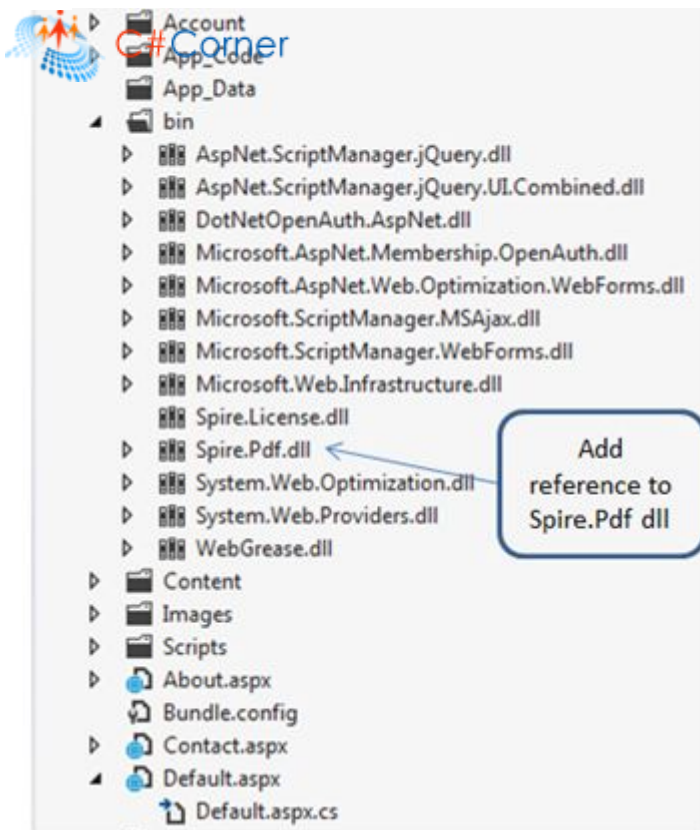
Step 2

Add the reference of the Spire.PDF DLL to your project. Y

Step 3

On the click event of the button:

1. Create an object of PDF document as in the following:

```
01. | PDFDocument doc = new PDFDocument();
```

2. Add a section for the content as in the following:

```
01. | PDFSection section = doc.Sections.Add();
```

3. Now you need a content place holder for where to load the actual content, so add a page to the PDF document.

```
01. | PDFPageBase page = section.Pages.Add();
```

Creating PDF document with Text

Using the Canvas.DrawString method, add the content. H
loaded the content from that text box.

Code for adding text object

```
01.    private void LoadText(PDFSection section)
02.    {
03.        PDFPageBase page = section.Pages.Add();
04.        page.Canvas.DrawString(txtFreeText.Text,
05.        new PDFFont(PDFFontFamily.Helvetica, 20f),
06.        new PDFSolidBrush(Color.Red),
07.        10, 10);
08.    }
```
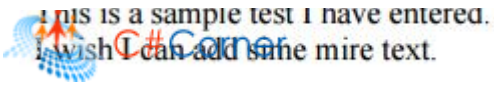
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Creating PDF with image

Loading the image and adding it in a PDF document is simple.

Create an object of PDFImage that takes a parameter of a Stream object. Here I have used a FileUpload control in my web page and passed the InputStream as in the following code snippet:

```
01.    PDFImage image = PDFImage.FromStream(FileUpload1.PostedFile.InputStream);
```

```
01.    private void LoadImage(PdfSection section)
02.    {
03.        if (FileUpload1.HasFile)
04.        {
05.            PdfPageBase page = section.Pages.Add();
06.            PdfImage image = PdfImage.FromStream(FileUpload1.PostedFile.InputStream);
07.            float width = image.Width * 0.50f;
08.            float height = image.Height * 0.50f;
09.            float x = (page.Canvas.ClientSize.Width - width) / 2;
10.
11.            page.Canvas.DrawImage(image, x, 60, width, height);
12.        }
13.    }
```

Output

Creating PDF with a grid

This is the most important type of data representation tha[...] the data in a grid format. This tool provides an easy way t[...]

Here we create an object of PDFTable and then using a Da[...] I want to show First Name and Last Name in my grid.

```
01.    PDFTable table = new PDFTable();
```

Code for generating grid

```
01.        PdfPageBase page = section.Pages.Add();
02.
```

```
06.        table.Style.DefaultStyle.BackgroundBru
07.        table.Style.DefaultStyle.Font = new Pd
08.
09.        table.Style.AlternateStyle = new PdfCellStyle();
10.        table.Style.AlternateStyle.BackgroundBrush = PdfBrushes.LightYellow;
11.        table.Style.AlternateStyle.Font = new PdfTrueTypeFont(new Font("Arial", 10f));
12.
13.        table.Style.HeaderSource = PdfHeaderSource.ColumnCaptions;
14.        table.Style.HeaderStyle.BackgroundBrush = PdfBrushes.CadetBlue;
15.        table.Style.HeaderStyle.Font = new PdfTrueTypeFont(new Font("Arial", 11f, FontStyle.Bold)
16.        table.Style.HeaderStyle.StringFormat = new PdfStringFormat(PdfTextAlignment.Center);
17.
18.        table.Style.ShowHeader = true;
19.
20.        table.DataSourceType = PdfTableDataSourceType.TableDirect;
21.
22.    //GenerateList return a data table
23.    table.DataSource = GenerateList();
24.
25.        //Set the width of column
26.        float width = page.Canvas.ClientSize.Width - (table.Columns.Count + 1);
27.        table.Columns[0].Width = width * 0.24f * width;
28.        table.Columns[0].StringFormat = new PdfStringFormat(PdfTextAlignment.Left, PdfVerticalAli
29.        table.Columns[1].Width = width * 0.21f * width;
30.        table.Columns[1].StringFormat = new PdfStringFormat(PdfTextAlignment.Left, PdfVerticalAli
31.        table.Columns[2].Width = width * 0.24f * width;
32.        table.Columns[2].StringFormat = new PdfStringFormat(PdfTextAlignment.Left, PdfVerticalAli
33.        table.Draw(page, new PointF(0, 10));
```

Output

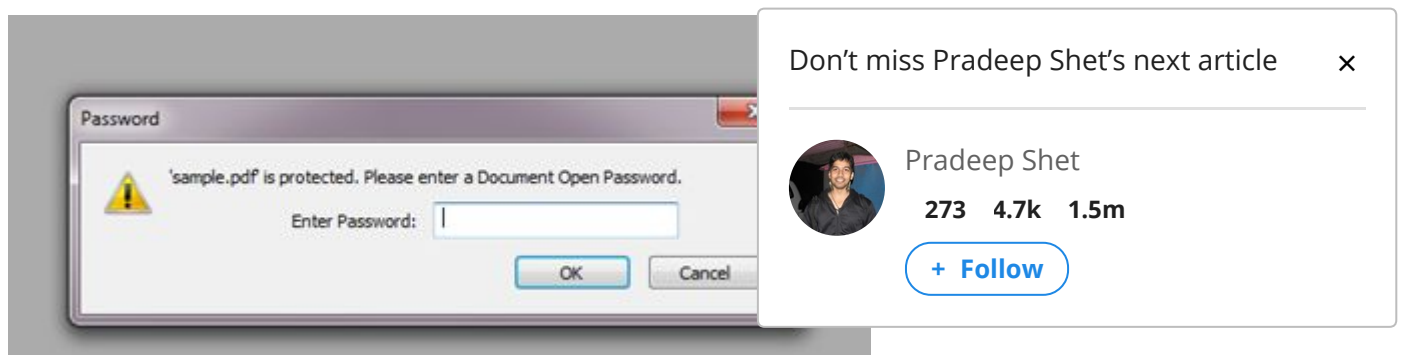| id	FirstName	LastName
1	Pradeep	Shet
2	Frank	Lampard
3	Leonal	Messi
4	Steven	Gerrard

Creating Password protected PDF

One more feature about this component is to provide security to your PDF file, which means creating a password-protected PDF. The following is the code snippet to generate the password-protected file.

```
01.    doc.Security.KeySize = PdfEncryptionKeySize.Key128Bit;
02.        doc.Security.OwnerPassword = "pradeep";
03.        doc.Security.UserPassword = "123";
04.
       doc.Security.Permissions = PdfPermissionsFlags.Print | PdfPermissionsFlags.FillFields;
```

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273   4.7k   1.5m

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- Adding Watermark
- Drawing objects
- Adding action to the links within the PDF
- Adding Paging
- Generating Barcodes
- Merging more than one PDF into single PDF
- Splitting one PDF into multiple

Conclusion

Here I end my article about generating a PDF that I think was easy to use and simple to understand. So try creating it yourself. I hope you liked this article and please do comment even if it is good or bad. Your comment will definitely help me to get better and write better for you.

References:

- Spire.PDF

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Pradeep Shet *TOP 500*

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273   1.5m   1

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Excellent work done...

Gopi Chand   Jun 22, 2015
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for POC for my project and found it good enoug
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What I do agree is though. It can't be a marketing and sales article, If its related to code and showing us how to use and do something using that product, I think it helps developers.

Mahesh Chand   Jun 22, 2015

Admin   **339.9k**   **109.2m**   0   3   Reply

It's okay.

Sandeep Singh Shekhawat   Jun 23, 2015

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Sandeep Singh Shekhawat   Jun 22, 2015

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Sandeep Singh Shekhawat

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Yes I agree. We cannot allow marketi... definitely restrict companies who we see do not write from a developer point of view Cheers!

Mahesh Chand   Jun 2?, ...

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