

Creating Daily Schedule Reports using SharpShooter Reports (Part I)

By Maxim Edapin, a software developer at Perpetuum Software LLC



Introduction:

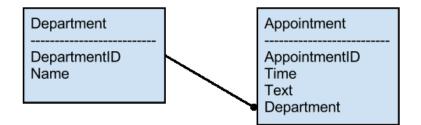
In the first part of the articles series devoted to the creation of various daily schedules we will start from building a simple Windows Forms application that will display the reports we create. And we will also create our first report - a schedule of appointments for every department. The appointments will be displayed one by one and sorted by time.

Prerequisites:

- .NET Framework 2.0, 3.5 or 4.0
- Visual Studio 2005/2008/2010
- SharpShooter Reports 6.3 or higher

Creating a Windows Forms Application:

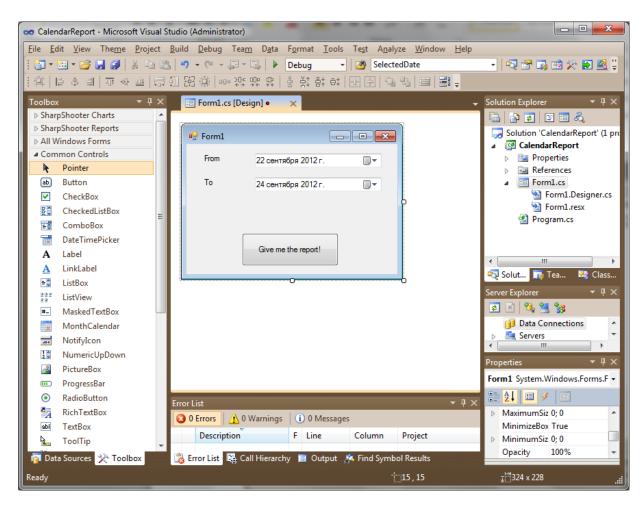
For the start, let's assume that we have the following database structure:



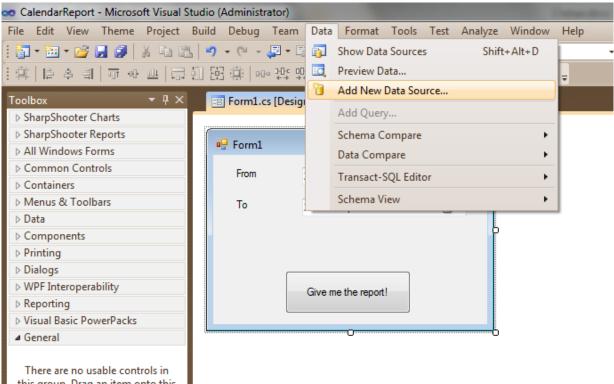
Now we create a new WindowsFormsApplication project.

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Add a couple of controls: two DatePicker elements for setting period of time for the schedule, and one button to run report generation.



Now, let's add a database as a data source:



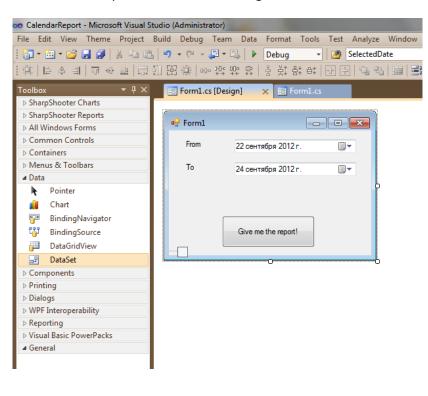
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Data Source Configuration Wizard	? ×	Data Source Configuration Wizard
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Database Service Object SharePoint		Dataset Entity Data Model
Lets you connect to a database and choose the database objects for your application.		The database model you choose determines the types of data objects your application code uses. A dataset file will be added to your project.
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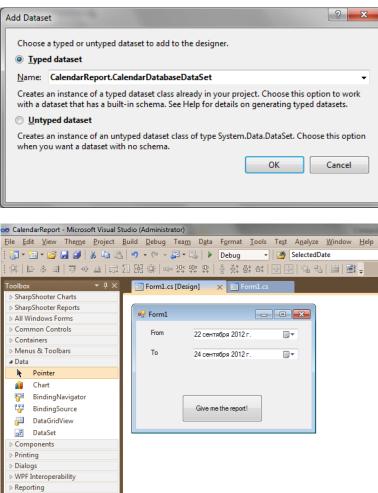
Data Source Configuration Wizard	Data Source Configuration Wizard
Choose Your Data Connection	Choose Your Database Objects
Which data connection should your application use to connect to the database?	Which database objects do you want in your dataset?
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No, exclude sensitive data from the connection string. I will set this information in my application code.	
Yes, include sensitive data in the connection string.	
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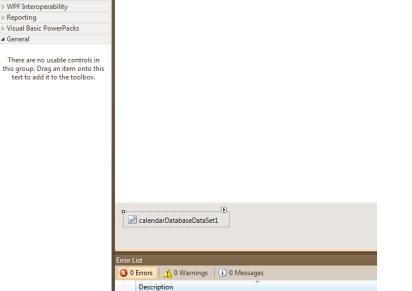
Now we need to pass the database through DataSet





General

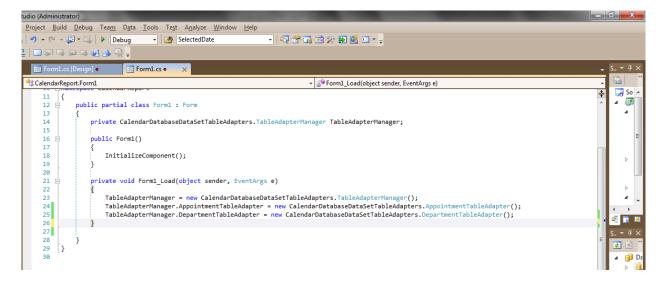




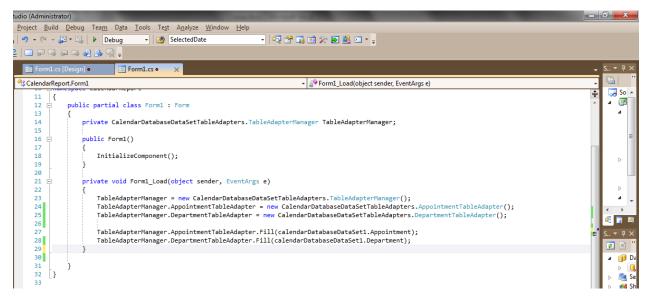
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Let's create TableAdapterManager and table adapters.

🛜 Data Sources 🔆 Toolbox



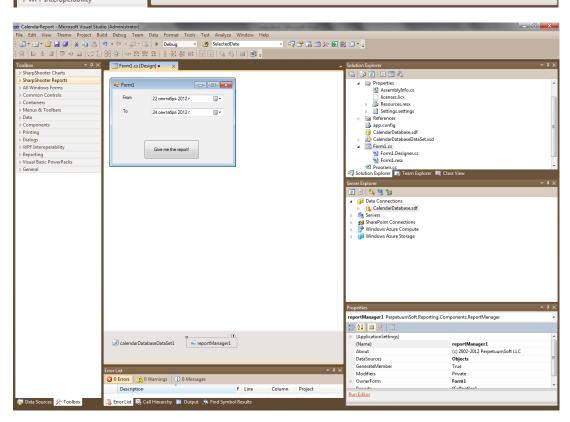
Fill in the DataSet



Now drag and drop the ReportManager component on the form:



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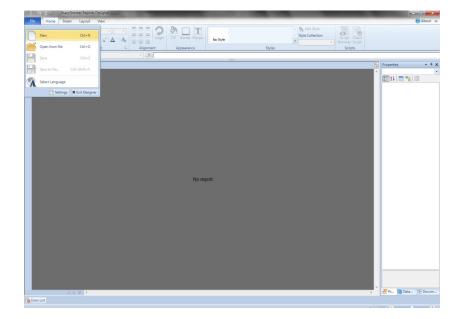
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Now, let's add a report template:



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And run the template designer by clicking the Run Designer button. Create a blank template in the designer.



Select C# as script language and press OK.

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Now save it through the File menu or by pressing Ctrl + S.

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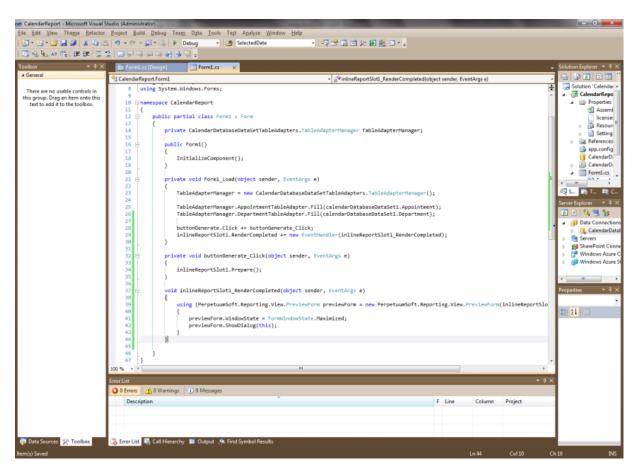
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Close the report designer by pressing the OK button.

Let's add handlers for button pressing and for the finish of report drawing.







Now everything is ready for report building.



Schedule Nº1

For the beginning we can do a simple report, for example as follows:

18.09.2012												
Department A	Department A											
Time	Appointment											
9:00	feed cat											
10:00	feed dog											
12:00	feed hamster											
Department B												
Time	Appointment											
9:00	feed other cat											
10:00	feed other dog											
12:00	feed other hamster											
Department C												
Time	Appointment											
9:00	sleep											

There is a schedule for every date for every department. The tasks are one by one sorted by time.

Let's formalize the task:

- 1. We need to display all days within the set period.
- 2. Display date for every day and headers for all departments.
- 3. Display appointments assigned for a particular day for every department.

For the beginning, let's create the Appointments relation for DataSet from the data base. We will use it to display all appointments assigned to a particular department.

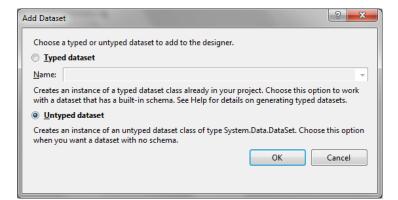
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We will also need an additional dataset where we will take care of supplementary data, for example, report parameters.





Now we will use a table with days for which we create a schedule.

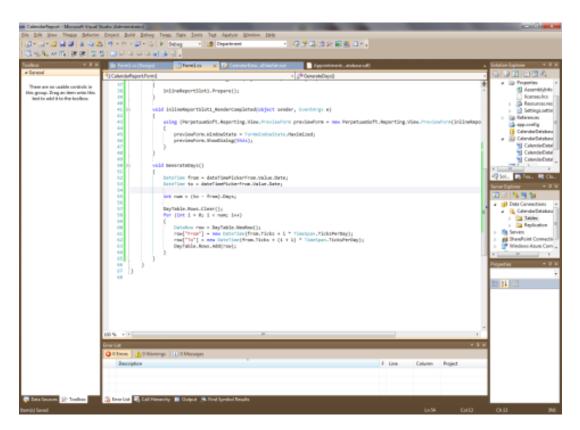
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Every record of a table will contain start and end of a day.

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Now, the days table is needed to be filled with time periods which set days. To do that I wrote the GenerateDays function.

```
void GenerateDays()
{
    DateTime from = dateTimePickerFrom.Value.Date;
    DateTime to = dateTimePickerTo.Value.Date;
    int num = (to - from).Days;
    DayTable.Rows.Clear();
    for (int i = 0; i < num; i++)
    {
        DataRow row = DayTable.NewRow();
        row["From"] = new DateTime(from.Ticks + i * TimeSpan.TicksPerDay);
        row["To"] = new DateTime(from.Ticks + (i + 1) * TimeSpan.TicksPerDay);
        DayTable.Rows.Add(row);
    }
}</pre>
```



Now it is important not to forget to call the function before report generation, for example in the button handler.

{ GenerateDa	<pre>buttonGenerate_Click(object sender, EventArgs e) ays(); ortSlot1.Prepare();</pre>

Add our additional dataset to the report data source.

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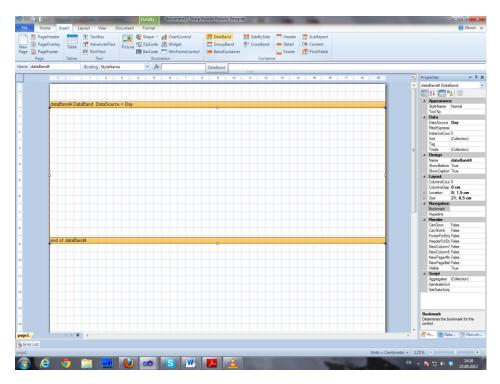
PERPETUUM software



Now we are ready to move to a template.

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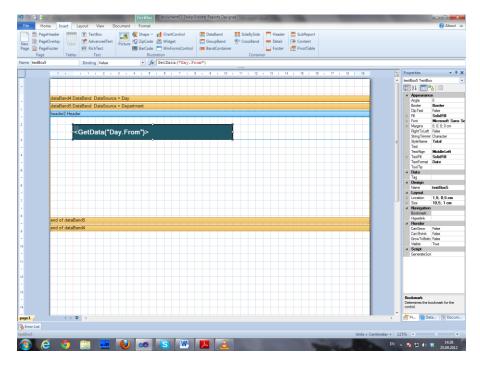
The first DataBand (dataBand4) will go through days. We add it to a template and set the DataSource property to Days.



The second DataBand (dataBand5) will go through all departments. Its DataSource – Department.

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But before a list of departments the dataBand5 should display a date of the current day from the dataBand4. We will use the Header element for this purpose.



Put the TextBox inside and bind it to the GetData("Day.From") value.

Now, we go through all assigned appointments for every department. To do this we add one more DataBand (dataBand1) to dataBand5. The DataSource property we set the Dapartment. Appointments relation.

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But we need only appointments for the current day. To filter by this appointment parameter in dataBand1, we need to set the following script in the FilterExpression property:

```
(DateTime)GetData("Department.Appointments.Time")>=(DateTime)dataBand4["From"]
    &&
    (DateTime)GetData("Department.Appointments.Time") < (DateTime)dataBand4["To"]</pre>
```

The records must be also sorted by time. To do this we need to add the

GetData ("Department.Appointments.Time") criterion to the Sort property.

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		OK Cancel

Now we need to add the Header element to dataBand1 to display the name of the current department and headers of time and description of the current appointment.

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Now we need just to display the record of the appointment itself. We will use the detail element for this purpose.

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Lets add 2 TextBox elements to detail1. These TextBoxes are bound to the time fields of time and description of the current record.

The script for the first case is dataBand1["Time"];

The script for the second case is dataBand1["Text"];

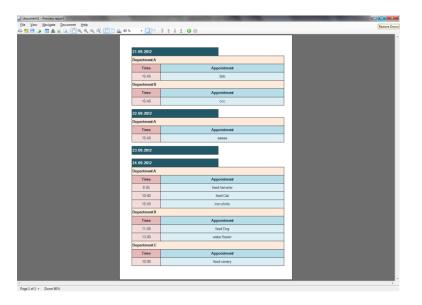
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Run it

- Form1		
From	21 сентября 2012 г.	
То	25 сентября 2012 г.	
	Give me the report!	

Press the big button



6

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Congratulations! The resulting report is exactly what we wanted to do!

To be continued...