

# Application to Template Sample

## Intro

Create a template file for ExcelTemplate using ExcelApplication to write in data markers.

This demo uses ExcelApplication API to programmatically create an ExcelTemplate workbook with data markers. The number, type, and position of the data markers are defined by the values chosen below. The workbook with data markers is then opened with ExcelTemplate and populated with data.



This sample stores some of the data in a CSV file, which is available for download under **Downloads**. The CSV parser used in the example code was developed by Andrew Rissing and can be downloaded from [Code Project](#).

## Code

```
public class AppToTemplate
{
    private ExcelApplication xlw;
    private ExcelTemplate xlt;
    private Workbook wb;
    private string dsrcName = "MyDataSource";
    private int firstRow = 0;
    private int firstCol = 0;
    private string[] cols = { "Title", "FirstName", "LastName", "EmailAddress",
"Phone" };

    public void GenerateReport()
    {
        // Create an instance of ExcelApplication, f
        //create a Workbook and get the first Worksheet.

        xlw = new ExcelApplication();
        wb = xlw.Create(ExcelApplication.FileFormat.Xlsx);
        Worksheet ws = wb.Worksheets[0];

        // Loop once through each data column
        for (int i = 0; i < cols.Length; i++)
        {
            // For the current data marker.
            //Data markers are in this format:
            //%%=[dsrcName].[colName]

            string curMarker = String.Format( "%%={0}.{1}", dsrcName,
cols[i].ToString());

            //
            //Write (fieldname) on the first row to mark as headers

            ws[firstRow, firstCol + i].Value = curMarker + "(fieldname)";
            ws[firstRow, firstCol + i].Style.Font.Bold = true;
            ws[firstRow+1, firstCol + i].Value = curMarker;
        }

        //If only the template is needed uncomment below, and do not call
        PopulateTemplate()
    }
}
```

```

        //xlw.Save(wb, Page.Response, "AppToTemplate-Template.xlsx", false);

        PopulateTemplate();
    }

    private void PopulateTemplate()
    {
        // Open the ExcelApplication Workbook as
        //an ExcelTemplate object.

        xlt = new ExcelTemplate();
        xlt.Open(xlw, wb);

        // Create a DataBindingProperties object
        DataBindingProperties dataProps = xlt.CreateDataBindingProperties();

        // Parse the csv file and save the data in a DataTable
        //Bind data
        //Process Data

        DataTable dt = GetCSVData(@"..\..\ExcelData\AppToTemplateData.csv");
        xlt.BindData(dt, dsrcName, dataProps);
        xlt.Process();

        //Save The Output
        xlt.Save(@"..\..\ExcelOutputFiles\AppToTemp_output.xlsx");
    }

    #region Utility Methods
    //Uses CSV reader
    System.Data.DataTable GetCSVData(string csvFileName)
    {
        DataTable dt;
        using (GenericParserAdapter parser = new
GenericParserAdapter(csvFileName))
        {
            parser.ColumnDelimiter = ',';
            parser.FirstRowHasHeader = true;

            dt = parser.GetDataTable();
        }
        return dt;
    }

    #endregion
}

```



## Downloads

- Data: [AppToTemplateData.csv](#)
- Output: [AppToTemp\\_output.xlsx](#)