

Nested Mail Merge Demo

Intro

Emulate a Word mail merge using WordTemplate, featuring new nested repeat block technology. A document will be created with each recipient's letter on a new page, complete with a nested table of orders. Take care of all of your mail merge production with one print job.

Letters will be created for a selection of customers in the database. This demo uses *Nested Repeat Blocks* that signal WordTemplate to only repeat specific sections of the document when appropriate. This way we can create complex documents with dynamically generated tables with only a single database query and one call to *SetRepeatBlock*.

Note that using nested repeat blocks is only supported by using docx files.

Code

```
public void GenerateDocument()
{
    WordTemplate wt = new WordTemplate();
    wt.Open(@"..\..\WordTemplateFiles\NestedMailMergeTemplate.docx");
    //Retrieve the Data from the source, a csv file with a helper method
    DataTable dt =
    GetMailMergeData(@"..\..\WordData\NestedMailMergeData.csv");

    // set dt as the datasource for the repeatblock and "MailMerge" as the
bookmark.
    // this will cause wordwriter to bind each letter on a different page of
the output file.
    wt.SetRepeatBlock(dt, "MailMerge");
    wt.Process();
    //Save the Document in the desired location
    wt.Save(@"..\..\WordOutputFiles\NestedMailMerge_output.docx");
}

//Helper method to parse the csv files with data
private DataTable GetMailMergeData(string csvFileName)
{
    DataTable dt = new DataTable();
    using (GenericParserAdapter parser = new
GenericParserAdapter(csvFileName))
    {
        parser.ColumnDelimiter = ',';
        parser.FirstRowHasHeader = true;

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

Downloads

Template: NestedMailMergeTemplate.docx

Data: NestedMailMergeData.csv

Output: NestedMailMerge_output.docx