Generate File Excel

The first step to generate an excel is to add this dependecy on pom.xml:

<dependency>

<groupId>com.github.bld-commons.excel</groupId>

<artifactId>generator-excel</artifactId>

<version>1.0.3</version>

</dependency>

the second step its need to add the following annotation:

* @ComponentScan(basePackages= "your.project.package","bld.generator.report" })

To create an excel there are 3 objects they represent:

1. Excel (sheet container)
2. Sheet (row container)
3. Row

tthe objects are:

* **class**
  + ReportExcel (Excel)
* **abstract** **class**
  + BaseSheet (Foglio)
    - SheetSummary
    - SheetData
    - MergeSheet
  + RowSheet (Riga)

The classes SheetSummary, SheetData e MergeSheet extend BaseSheet, their scope is to define the type table ex:

* SheetSummary:

|  |  |
| --- | --- |
| Autore | |
| Nome | Mario |
| Cognome | Rossi |
| Data di nascita | 23-04-1960 |
| Città | Roma |

* SheetData:

|  |  |  |  |
| --- | --- | --- | --- |
| NOME | COGNOME | DATA DI NASCITA | CITTÀ |
| Mario | Rossi | 23-04-1960 | Roma |
| Luca | Bianchi | 20-01-1970 | Milano |
| Martina | Verdi | 18-04-1989 | Firenze |

* MergeData will merge the differents sheets

Tables and cells layouts can be set up with some annotation in the following package:

* **package** bld.generator.report.excel.annotation;

To design tables and cell layout we will use some main annotations and they are:

* On class that extends BaseSheet we will set up:
  + @ExcelSheetLayout
  + @ExcelMarginSheet
  + @ExcelMarginSheet
* On class that extends RowSheet we will set up:
  + @ExcelColumn
  + @ExcelCellLayout

On the annotation @ExcelSheetLayouta adding the option “notMerge=false” and adding the following annotation:

* @ExcelMergeRow(referenceField = "matricola")

we get a report with rows merge, an example of using the annotation @ExcelMergeRow is:

**package** bld.generator.report.junit.entity;

**import** java.util.Calendar;

**import** org.apache.poi.ss.usermodel.HorizontalAlignment;

**import** bld.generator.report.excel.DynamicRowSheet;

**import** bld.generator.report.excel.annotation.ExcelCellLayout;

**import** bld.generator.report.excel.annotation.ExcelColumn;

**import** bld.generator.report.excel.annotation.ExcelDate;

**import** bld.generator.report.excel.annotation.ExcelFunction;

**import** bld.generator.report.excel.annotation.ExcelFunctionMergeRow;

**import** bld.generator.report.excel.annotation.ExcelFunctionRow;

**import** bld.generator.report.excel.annotation.ExcelFunctionRows;

**import** bld.generator.report.excel.annotation.ExcelMergeRow;

@ExcelFunctionRows(excelFunctions = {@ExcelFunctionRow(excelCellsLayout = @ExcelCellLayout(horizontalAlignment =HorizontalAlignment.***RIGHT***, precision = 2),

excelColumn = @ExcelColumn(indexColumn = 9, nameColumn = "Prezzo Totale"),

excelFunction = @ExcelFunction(function = "sum(${prezzo},${supplemento})", nameFunction = "prezzoTotale"))

},

excelFunctionMerges = {

@ExcelFunctionMergeRow(excelCellsLayout = @ExcelCellLayout(horizontalAlignment = HorizontalAlignment.***RIGHT***, precision = 2),

excelColumn = @ExcelColumn(indexColumn = 7.1, nameColumn = "Prezzo Totale per Autore"),

excelMergeRow = @ExcelMergeRow(referenceField = "matricola"), excelFunction = @ExcelFunction(function = "sum(${prezzoFrom}:${prezzoTo})", nameFunction = "prezzoTotalePerAutore"))

}

)

**public** **class** AutoreLibriRowDynamic **extends** DynamicRowSheet {

@ExcelColumn(nameColumn = "Nome", indexColumn = 2)

@ExcelCellLayout

@ExcelMergeRow(referenceField = "matricola")

**private** String nome;

@ExcelColumn(nameColumn = "Cognome", indexColumn = 3)

@ExcelCellLayout

@ExcelMergeRow(referenceField = "matricola")

**private** String cognome;

@ExcelColumn(nameColumn = "Data di Nascita", indexColumn = 4)

@ExcelDate

@ExcelCellLayout(horizontalAlignment = HorizontalAlignment.***CENTER***)

@ExcelMergeRow(referenceField = "matricola")

**private** Calendar dataDiNascita;

@ExcelColumn(nameColumn = "Titolo", indexColumn = 6)

@ExcelCellLayout

**private** String titolo;

@ExcelColumn(nameColumn = "Genere", indexColumn = 5)

@ExcelCellLayout

@ExcelMergeRow(referenceField = "cognome")

**private** String genere;

@ExcelColumn(nameColumn = "Matricola", indexColumn = 1)

@ExcelCellLayout(horizontalAlignment = HorizontalAlignment.***RIGHT***)

@ExcelMergeRow(referenceField = "")

**private** Integer matricola;

@ExcelColumn(nameColumn = "Prezzo", indexColumn = 7)

@ExcelCellLayout(horizontalAlignment = HorizontalAlignment.***RIGHT***, precision = 2)

**private** Double prezzo;

@ExcelColumn(nameColumn = "Supplemento", indexColumn = 8)

@ExcelCellLayout(horizontalAlignment = HorizontalAlignment.***RIGHT***, precision = 2)

**private** Double supplemento;

...get and set

}

The result is:

* [TestExcel](https://github.com/bld-commons/dev-excel/blob/master/Mondadori Dynamic.xlsx?raw=true)