Data Table PDF Generator User Manual

Table of Contents

NTRODUCTION	2
NSTRUCTIONS	3
API SPECIFICATIONS	7
PDFUtil	7
PDFInput	7
PDFDataTable	7
generateDataTablePDF	7
addPage	8
generateDataTable	8
addText	8
addBoldText	8
addParagraph	8
drawline	8
addSplitText	9

INTRODUCTION

PDF utility JAR will generate PDF document and write multipage data table into pdf document from the given standard input. Users can just download below JAR and place it in their CLASSPATH.

Download PDFUtil Jar.

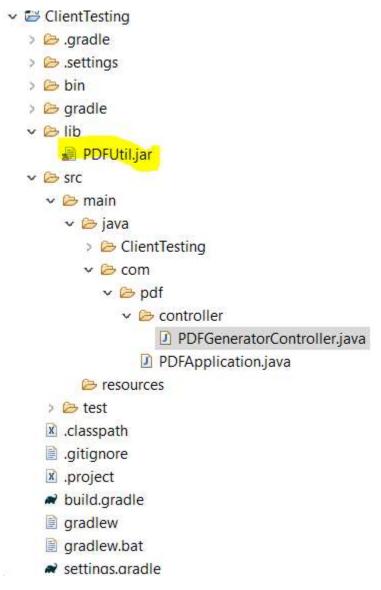


PDFUtil is simple Java Archive file contains wrapper class built using Apache PDFBox[®] library. The Apache PDFBox[®] library is an open source Java tool for working with PDF documents. This utility provides a level abstraction where data provided in format data-table can be directly use to generate PDF documents, which further reduces overall complexity, and underlying boilerplate code. It has several features including:

- 1. Users can create empty PDF page.
- 2. Allow users to write text to created PDF document.
- 3. Allow users to draw line in the document.
- 4. Users can convert the document to byte stream.
- 5. Users can generate the multipage Table from user input.

INSTRUCTIONS

1. Download above JAR and place it in your class path.



Note:- If GRADLE build, please add below line in your script.

compile fileTree(dir: 'lib', include: '*.jar')

2. Create a PDFInput class object and fill the required details.

```
PDFInput pdfInput = new PDFInput();
pdfInput.setPageTitle("PDF Generator Sample");
pdfInput.setTitleFontSize(20);
pdfInput.setPageSize(PDRectangle.A4);
pdfInput.setStartX(150);
pdfInput.setStartY(800);
PDFDataTable pdfDataTable = new PDFDataTable();
List<Map<String, String>> headerList = new ArrayList<>();
Map<String, String> headerData = new HashMap<>();
headerData.put("title", "Employee Name");
headerData.put("xaxis", "10");
headerList.add(0, headerData);
headerData = new HashMap<>();
headerData.put("title", "Employee Designation");
headerData.put("xaxis", "250");
headerList.add(1, headerData);
headerData = new HashMap<>();
headerData.put("title", "Employee Phone Number");
headerData.put("xaxis", "400");
headerList.add(2, headerData);
pdfDataTable.setHeaderList(headerList);
pdfDataTable.setDtHeaderFntSize(12);
pdfDataTable.setDtDataFntSize(11);
List<List<String>> dataset = new ArrayList<>();
List<String> dataResult = new ArrayList<>();
for(int i = 1; i \le 25; i++){
    dataResult = new ArrayList<>();
    dataResult.add(0, "Employee Name "+i);
    dataResult.add(1, "Employee Designation "+i);
    dataResult.add(2, "Employee Phone Number "+i);
    dataset.add(dataResult);
}
pdfDataTable.setDataSet(dataset);
pdfInput.setPdfDataTable(pdfDataTable);
```

3. Call the PDFUtil generateDataTablePDF method to get the PDF byte stream data.

```
pdfInput.setPdfDataTable(pdfDataTable);
try {
    pdfBytes = PDFUtil.generateDataTablePDF(pdfInput);
} catch (IOException e1) {
    e1.printStackTrace();
}
response.setContentType("application/pdf");
OutputStream out = null;
try {
    out = response.getOutputStream();
    out.write(pdfBytes);
} catch (IOException e) {
    e.printStackTrace();
}
```

4. Above is sample spring boot application created for testing, where PDFUtil JAR is used to generate PDF document.



This response could not be previewed. Download the response to open it with an appropriate application.

5. Please see below code snippet and sample output file for reference.

SAMPLE CODE SNIPPET

```
byte[] pdfBytes = null;
PDFInput pdfInput = new PDFInput();
pdfInput.setPageTitle("PDF Generator Sample");
pdfInput.setTitleFontSize(20);
pdfInput.setPageSize(PDRectangle.A4);
pdfInput.setStartX(150);
pdfInput.setStartY(800);
PDFDataTable pdfDataTable = new PDFDataTable();
List<Map<String, String>> headerList = new ArrayList<>();
Map<String, String> headerData = new HashMap<>();
headerData.put("title", "Employee Name");
headerData.put("xaxis", "20");
headerList.add(0, headerData);
headerData = new HashMap<>();
headerData.put("title", "Employee Designation");
headerData.put("xaxis", "250");
headerList.add(1, headerData);
headerData = new HashMap<>();
headerData.put("title", "Employee Phone Number");
headerData.put("xaxis", "400");
headerList.add(2, headerData);
pdfDataTable.setHeaderList(headerList);
pdfDataTable.setDtHeaderFntSize(12);
pdfDataTable.setDtDataFntSize(11);
List<List<String>> dataset = new ArrayList<>();
List<String> dataResult = new ArrayList<>();
for(int i = 0; i < 10; i++){
       dataResult = new ArrayList<>();
       dataResult.add(0, "Employee Name "+i);
       dataResult.add(1, "Employee Designation "+i);
       dataResult.add(2, "Employee Phone Number "+i);
       dataset.add(dataResult);
}
pdfDataTable.setDataSet(dataset);
pdfInput.setPdfDataTable(pdfDataTable);
try {
       pdfBytes = PDFUtil.generateDataTablePDF(pdfInput);
} catch (IOException e1) {
       e1.printStackTrace();
}
```

```
response.setContentType("application/pdf");
OutputStream out = null;
try {
    out = response.getOutputStream();
    out.write(pdfBytes);
} catch (IOException e) {
    e.printStackTrace();
}
```

SAMPLE OUTPUT FILE:



API SPECIFICATIONS

PDFUtil

Package: com.pdf

<u>Description:</u> This class have various static methods to generate PDF and to write the text to it.

PDFInput

Package com.pdf.pojo

<u>Description:</u> This class is input to the PDF Util class which contains basic required variable for PDF document creation.

PDFDataTable

Package com.pdf.pojo

<u>Description:</u> This class is one of the variable in PDFInput class. This class have all the requirement member variable for datatable creation.

generateDataTablePDF

<u>Method signature:</u> generateDataTablePDF(PDFInput pdfInput)

Return Type: byte[]

<u>Description:</u> This method will generate multipage table structure based on User Input and return the create pdf byte stream.

Sample: PDFUtil.generateDataTablePDF(pdfInput);

addPage

<u>Method signature</u>: addPage(PDDocument document, PDFInput pdfInput)

Return Type: PDPageContentStream

Description: This method will create page and return content stream.

generateDataTable

<u>Method signature:</u> generateDataTable(PDDocument document, PDPageContentStream contentStream, PDFInput pdfInput)

Return Type: float

<u>Description</u>: This method will create data table at specified location on given document and return the current location

addText

<u>Method signature</u>: addText(PDPageContentStream contentStream, float startX, float startY, String text, float fontSize)

Return Type: Void

Description: This method will add text at specified location on given document

addBoldText

<u>Method signature:</u> addBoldText(PDPageContentStream contentStream, float startX, float startY, String text, float fontSize)

Return Type: Void

<u>Description:</u> This method will add BOLD text at specified location on given document

addParagraph

<u>Method signature:</u> drawline(PDPageContentStream contentStream, float width, float startX, float startY)

Return Type: Void

<u>Description</u>: This method will add paragraph at specified location on given document.

drawline

<u>Method signature:</u> drawline(PDPageContentStream contentStream, float width, float startX, float startY)

Return Type: Void

<u>Description:</u> This method will draw line at specified location on given document stream.

addSplitText

<u>Method signature</u>: addSplitText(PDPageContentStream contentStream, float startX,

float startY, String text, float fontSize, int wrapTextLen)

<u>Return Type:</u> Void

<u>Description:</u> This method will write multi line at specified location on given document stream and return the new Y location.