

# APEX Render PDF plugin

## License

The plugin has been developed by the J4L FO Designer team (<http://www.apex-reports.com/>) . It uses pdf.js which has been release under the Apache License

<https://github.com/mozilla/pdf.js/blob/master/LICENSE>

## Introduction

The aim of this plugin is the **fast** rendering of PDF files stored in a database table. For this the plugin uses the [pdf.js](#) scripts which will render the PDF files much faster than the PDF Adobe addon in the browser. This is useful when browsing a PDF database.

The plugin includes a test page and an application process to be able to download the files that need to be printed.

## Importing the test data

We deliver a test table and data (3 PDF files) you can import as below:

- Create the table in *SQL Workshop* → *SQL Commands* , enter the command below

```
CREATE TABLE Documents (  
  id    NUMBER(5) PRIMARY KEY,  
  name  VARCHAR2(15) NOT NULL,  
  doc   CLOB);
```

- In *SQL Workshop* → *Utilities* → *Data workshop* → *Data load* → *XML Data* import the file documents.xml.

## Import plugin

This step is not required if you import the complete application (see next section)

Import the file *item\_type\_plugin\_printnow.sql* with the option: *application -> shared components -> plug-ins -> import*

select the file *item\_type\_plugin\_pdfrender.sql*

# Import the applicaiton

In *App Builder* → *Import* → *Database Application, Page or Component Export*

select the file *f120936.sql*

The result of running the **documents** page will be as below:

- on the left side the list of documents of the database
- click on the document name to open it

The screenshot displays the PDFArchiveRenderer application interface. On the left, a sidebar contains a 'Documents' section with a table listing three items: 'Letters', 'Employees', and 'Order', each with a 'download' link. The 'Order' document is selected, and its content is displayed in the main 'Archive' area. The content is a PDF of an 'APEX DEMO Purchase Order' from 'O'Hare, Edward "Butch"' to 'O'Hare, Edward "Butch"'. The order includes a table of items: 3 pairs of men's shoes, 2 pairs of black trousers, 3 jackets, and 1 pair of ladies' shoes, totaling 1060.00.

Id	Name	download
1	Letters	download
2	Employees	download
3	Order	download

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**APEX DEMO Purchase Order** Order number: 8 05/16/2013

**Customer:** O'Hare, Edward "Butch"  
10000 West O'Hare  
Chicago

Product ID	Name / Description	Quantity	Price	Amount
9	Mens shoes Leather upper and lower lace up shoes	3	110.00	330.00
2	Trousers Black trousers suitable for every business man	2	80.00	240.00
3	Jacket Fully lined jacket which is both professional and extremely comfortable to wear	3	150.00	450.00
6	Ladies Shoes Low heel and cushioned interior for comfort and style in simple yet elegant shoes	1	120.00	360.00
Total:				1060.00

The application is made of an application process called PDFDOWNLOAD which will be use to download the PDF files. The code of the application process is

```
declare
L_BLOB BLOB;
L_CLOB CLOB;
v_file_name VARCHAR2(100);
begin

select doc,name into l_CLOB,v_file_name from DOCUMENTS where ID= V('PDFID') ;
L_BLOB := APEX_WEB_SERVICE.CLOBBASE64BLOB(l_clob);

owa_util.mime_header('application/octet-stream', FALSE );
http.p('Content-Disposition: attachment; filename="'|| v_file_name || '.pdf"');
http.p('Content-Transfer-Encoding: base64');

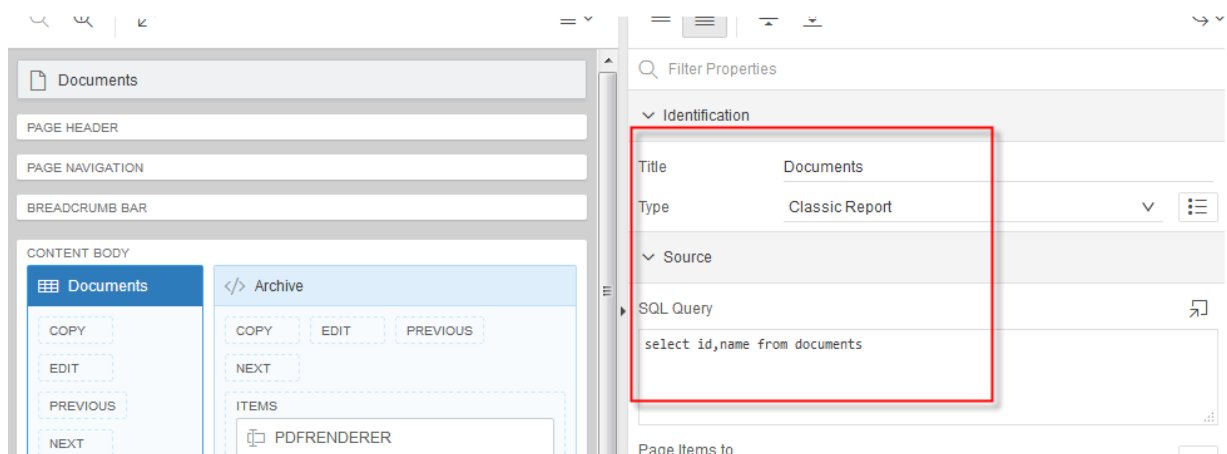
owa_util.http_header_close;

WPG_DOCLOAD.download_file(l_blob);

end;
```

and an application page. The application page is made of 2 regions:

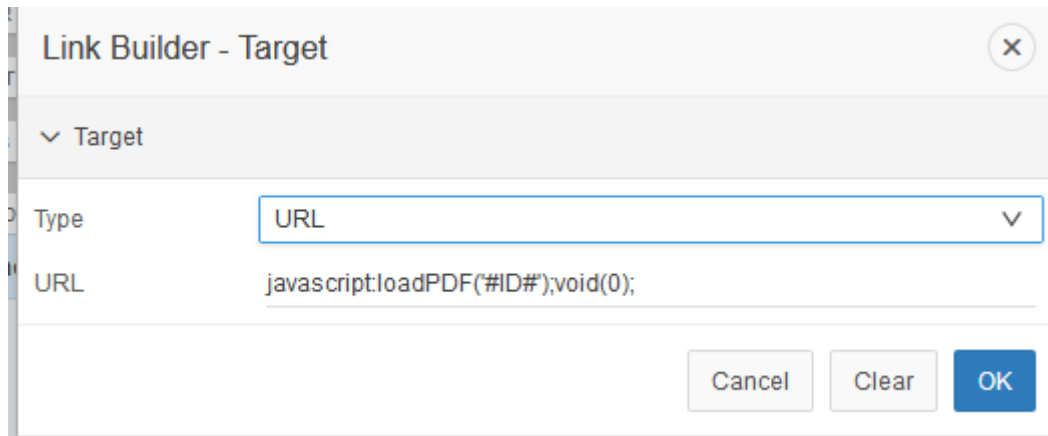
The list of documents which is a classic report



The report has 2 columns, ID, NAME and a virtual column. The *Name* column is a link

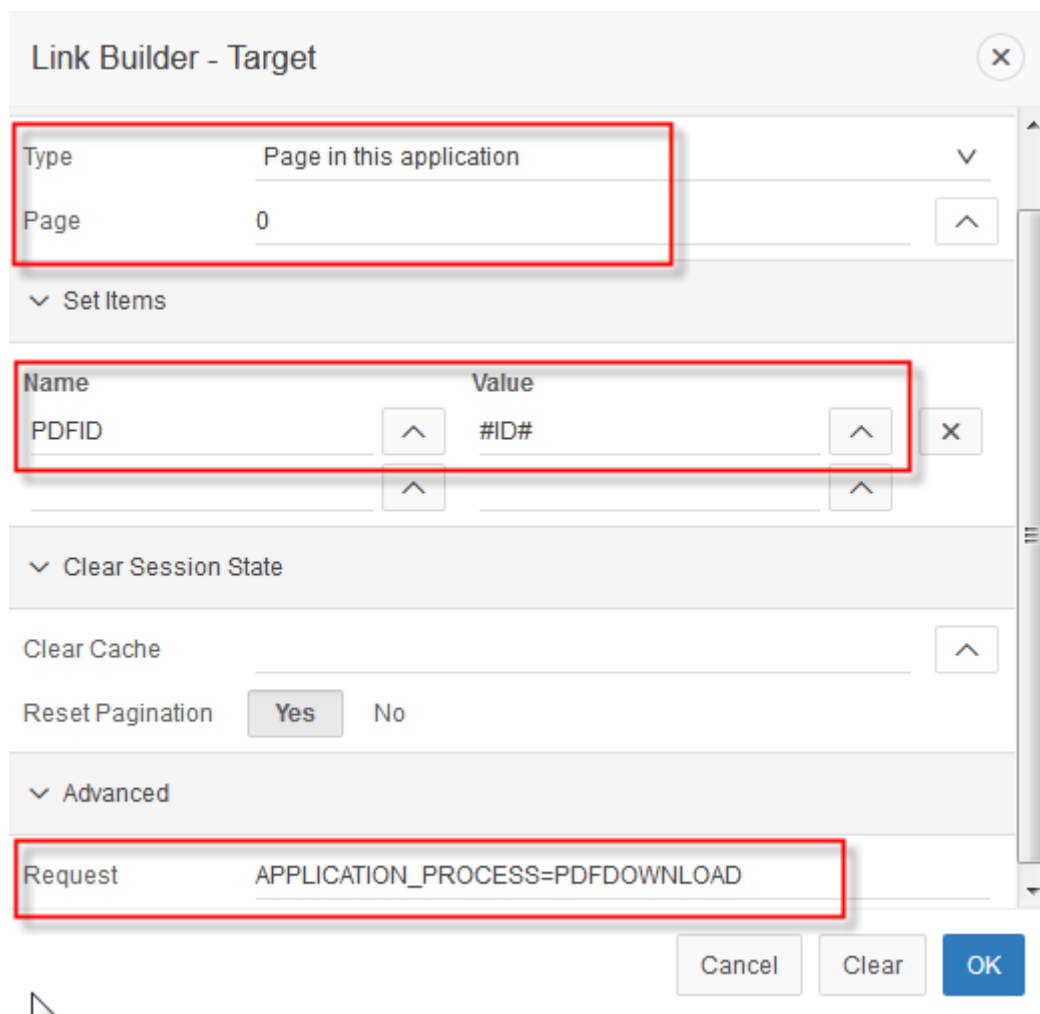
Identification	
Column Name	NAME
Type	Link

the target link is a script will load the currently selected report



The image shows a 'Link Builder - Target' dialog box. It has a 'Target' section with a 'Type' dropdown set to 'URL' and a 'URL' text field containing the JavaScript code 'javascript:loadPDF("#ID#");void(0);'. At the bottom are 'Cancel', 'Clear', and 'OK' buttons.

The virtual column is also a link which will run the application process to download the PDF.



The image shows the 'Link Builder - Target' dialog box with several sections highlighted by red rectangles. The 'Type' dropdown is set to 'Page in this application' and the 'Page' field is '0'. The 'Set Items' section contains a table with one row: 'PDFID' in the 'Name' column and '#ID#' in the 'Value' column. The 'Clear Session State' section has 'Clear Cache' and 'Reset Pagination' (set to 'Yes'). The 'Advanced' section has a 'Request' field set to 'APPLICATION\_PROCESS=PDFDOWNLOAD'. At the bottom are 'Cancel', 'Clear', and 'OK' buttons.

Name	Value
PDFID	#ID#

The second region in the page is a blank region which contains 2 items:

- the PDF renderer plugin
- and a hidden item called PDFID which will be used as parameter for the application process

