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DocumentType : Delphi\_document  
RuleId : "6423bc693978330b22a73f01"

Delphi Process -

1. Upload a PDF having barcode
2. ConvertPDFtoImagettoPPM
  - a. Converts the pdf into pages using pdftoppler ( linux utility )
3. Document\_Preprocess
  - a. To preprocess the images
4. BarCode Scanner
  - a. Python bot which is used to extract the barcode data from the image using the python library called zbar
5. BarCode Save
  - a. Saves the data into the documentType
6. DocType rule Engine
  - a. Applied rules on the documentType data
7. View Invoice
  - a. To view the data

Upload From Local

( Uploads a local directory for client machine )

- uploadfileFromLocal function in the desktop utility which creates the zip file in local And uploads using scp to the server
- unzipFileToDir bot is used to unzip that file which is uploaded on server from local client machine and store it in a dirPat which is taken from input
- Next bot is to Trigger the Read bot for Delphi Splitter, So that it can iterate all the files which are stored in DirPath  
taskName - DirPath ( as we send the DirPath to next process)

Delphi Splitter Reader

( Looping process where all files which came from file are triggered for next process )

- Looping process for all files which are in DirPath sent from the last Process.
- It generates fileRefNum, orgFilePath for every file and processes that every file to next process Delphi Splitter WU with same variables as taskName

## Delphi Splitter WU

( Splitter Process which scans while pdf and splits pages based on barcode , and again creates a Dir of the splitted pdfs )

- Takes the orgfilePath and converts the pdf into the pages using pdftoppm
- Barcode scanner bot gives the data of all barcodes present in the pdfs
- Barcode data then checked with the pageNo and created a object for the splitter like this

```
{ "Merged_pdf_1681305990492_0.pdf" : [
  {
    "imageFilePath" :
"/var/www/file-server/rpa/ilovepdf_me-01.jpg"
  }
],
  "Merged_pdf_1681305990492_1.pdf" : [
  {
    "imageFilePath" :
"/var/www/file-server/rpa/ilovepdf_me-02.jpg"
  },
  {
    "imageFilePath" :
"/var/www/file-server/rpa/ilovepdf_me-03.jpg"
  },
  {
    "imageFilePath" :
"/var/www/file-server/rpa/ilovepdf_me-04.jpg"
  },
  {
    "imageFilePath" :
"/var/www/file-server/rpa/ilovepdf_me-05.jpg"
  }
], }
```

- So this object is passed to the next bot mergelimagestoPDF.
- In mergelimagestoPDF, all images under the fileName are merged and saved with the fileName in given Directory Path.  
Ex. DirPath like this - /var/www/file-server/poc-fs/Delphi/1681128094109
- This DirPath is sent to the next Process of reader.

### Delphi Normal Reader

( which reads the dir and iterates the next process of final extraction)

- Looping process for all files which are in DirPath sent from the last Process.
- It generates fileRefNum, orgFilePath for every file and processes that every file to next process Delphi Splitter WU with same variables as taskName

### Delphi Process WU

( process which extracts the final data)

- It take the orgfilePath which is sent from the last process, and converts it into images using pdfpoppler.
- DocumentPreprocess is used to modify and convert the images into proper mode.
- Barcode Scanner bot which is a python bot used to extract the barcode data from the images.
- That Barcode data is taken and extracted fields like Top\_Barcode , Bottom\_Barcode and saved this things into the documentType ( Delphi\_Document ) . So that can be used while showing data into screen.
- DocTypeRuleEngine is used to apply rules on the data which we save previously.
- View Invoice Bot to see the training screen.

### Barcode Scanner - ( Python bot )

[https://rpa.gibots.com/gibots-pyimg/barcode\\_reader](https://rpa.gibots.com/gibots-pyimg/barcode_reader)