Project 3: PDF scraping in Python + REGEX

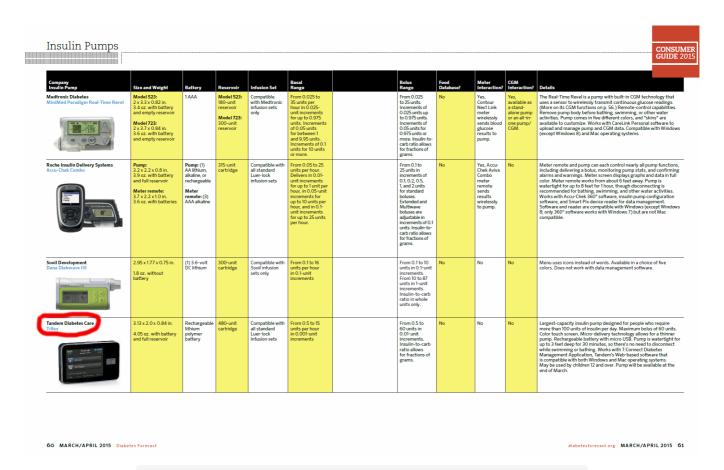
In this project we use regex to extract a list of items from a pdf file.

WE'LL COVER THE FOLLOWING ^

- PDF scraping example:
- Input file
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PDF scraping example:

In this project we will use a pdf file (see the screenshot below) from the diabetes.org website. Our goal is to list all the equipment models developed by the manufacturers names containing the word tandem (case insensitive).



Input file

You can download the input file from here: data.pdf.

Solution

A complete explanation of the Python code is **out of the scope** for this course (hint: learn the Python module <code>pdfquery</code>). It should be easy enough for you to understand how we capture the <code>porduct_name</code> from the pdf file using bounding box function <code>LTTextLineHorizontal:in_bbox("40, 48, 181, 633")</code> and then iterate over the products and search using regex and then only print the <code>Tandem</code> Manufacurers.

```
import re
import pdfquery
from lxml import etree
PDF_FILE = 'data.pdf'
pdf = pdfquery.PDFQuery(PDF_FILE)
pdf.load()
product_info = []
page_count = len(pdf._pages)
for pg in range(page_count):
    data = pdf.extract([
        ('with_parent', 'LTPage[pageid="{}"]'.format(pg+1)),
        ('with_formatter', None),
        ('product_name', 'LTTextLineHorizontal:in_bbox("40, 48, 181, 633")'),
    1)
    for ix, pn in enumerate(sorted([d for d in data['product_name'] if d.text.strip()], key=1
        if ix % 2 == 0:
            product info.append({'Manufacturer': pn.text.strip(), 'page': pg, 'y start': floa
                product_info[-2]['y_end'] = float(pn.get('y0'))+10.0
        else:
            product_info[-1]['Model'] = pn.text.strip()
pdf.file.close()
for p in product_info:
    s = p['Manufacturer']
    m = re.search(r"Tandem",s,re.I)
        print('Manufacturer: {}[Model {}]\n'.format(p['Manufacturer'],p['Model']))
```





We have preloaded the data onto educative.io's server and you should be able to run the code straight ahead and get the output as follows:

```
Manufacturer: Tandem Diabetes Care[Model T:flex]
Manufacturer: Tandem Diabetes Care[Model T:slim]
```

From this result we can see that there are two models <code>T:fles</code> and <code>T:slim</code> supplied by the manufacturer called 'Tandem Diabetes Care'. The problem solution has been adopted and simplified from the reddit user insainodwayno.