Extracting_URLs_From_PDF_&_Downloading_Files_From_URLs

This notebook divided into 3 parts

- Step 1: Getting PDF file paths from different directories
- Step 2: Extracting the URLs from PDF files
- · Step 3: Downloading the data from the Extracted URL

Step - 1: Getting PDF file paths from different directories

Step - 2: Extracting the URLs from PDF files

Usinf pdfx package we can extract the all the urls in the pdf file in the dictionary format

```
In [2]:
import pdfx
```

In [3]:

```
urls = []
for path in req_file_paths:
   pdf = pdfx.PDFx(path)
   # displaying pdf object
   print('----')
   print(pdf)
   # displaying Metadata of the pdf like creator Name, Data, #of Pages etc.,
   print('----Meta Data----')
   print(pdf.get_metadata())
   # displaying File Names
   print('----FileName----')
   print(path.split('\\')[-1])
   # Extracting the URLs from the PDF files
   print('----Extraxted URL from the file----')
   print(pdf.get_references_as_dict())
   # Savong the urls in a list
   urls += pdf.get_references_as_dict()['url']
   print()
```

```
----PDF object----
<pdfx.PDFx object at 0x000002084F7B3790>
----Meta Data----
{'Producer': 'Skia/PDF m89', 'Pages': 1}
----FileName----
Python_Home_Site.pdf
----Extraxted URL from the file----
{'url': ['https://www.python.org/doc/']}
----PDF object----
<pdfx.PDFx object at 0x000002084F804250>
----Meta Data----
{'Producer': 'Skia/PDF m89', 'Pages': 1}
----FileName----
About_Python.pdf
----Extraxted URL from the file----
{'url': ['https://www.python.org/about/']}
----PDF object----
<pdfx.PDFx object at 0x000002084F809B50>
----Meta Data----
{'Producer': 'Skia/PDF m89', 'Pages': 1}
----FileName----
Download_Python.pdf
----Extraxted URL from the file----
{'url': ['https://www.python.org/downloads/']}
----PDF object----
<pdfx.PDFx object at 0x000002084F809AF0>
----Meta Data----
```

```
{'Producer': 'Skia/PDF m89', 'Pages': 1}
----FileName----
Python books.pdf
----Extraxted URL from the file----
{'url': ['https://wiki.python.org/moin/PythonBooks']}
----PDF object----
<pdfx.PDFx object at 0x000002084F804C40>
----Meta Data----
{'Producer': 'Skia/PDF m89', 'Pages': 1}
----FileName----
Python_docs.pdf
----Extraxted URL from the file----
{'url': ['https://www.python.org/doc/']}
----PDF object----
<pdfx.PDFx object at 0x000002084F8090D0>
----Meta Data----
{'Producer': 'Skia/PDF m89', 'Pages': 2}
----FileName----
Python_docs_Beginners_Guide.pdf
----Extraxted URL from the file----
{'url': ['https://wiki.python.org/moin/BeginnersGuide/NonProgrammers', 'http
s://wiki.python.org/moin/BeginnersGuide/Overview', 'https://wiki.python.org/
moin/BeginnersGuide', 'python.org']}
```

Step - 3: Downloading the data from the Extracted URL

```
In [4]:
                                                                                          H
import requests
for url in range(len(urls)):
    if urls[url].startswith('http'):
        # URL of the file to be downloaded is defined as url
        response = requests.get(urls[url]) # create HTTP response object
        # send a HTTP request to the server and save
        # the HTTP response in a response object called res
        file_name = 'downloaded_files/file{}.html'.format(url) # Assuming all the url are h
        with open(file_name,'wb') as file:
            # Saving received content as a file in binary format
            # write the contents of the response (r.content)
            # to a new file in binary mode.
            file.write(response.content)
print('Files Downloaded Successfully @')
```

Files Downloaded Successfully 🚱

Downloading Files from Google Drive

If the URL file is located in the Google Drive then follow the below procedure

original share link of a file in Google Drive will be as below:

https://docs.google.com/document/d/FILE_ID_(https://docs.google.com/document/d/FILE_ID_)

The FILE_ID is unique for every file in Google Drive. If you copy this FILE_ID and use it in the URL below, you'll get a direct link to download the file from Google Drive.

https://docs.google.com/document/d/DOC_FILE_ID/export?format=pdf
(https://docs.google.com/document/d/DOC_FILE_ID/export?format=pdf)
<--- format for docs file to be</p>
downloaded as pdf https://docs.google.com/document/d/DOC_FILE_ID/export?format=doc
(https://docs.google.com/document/d/DOC_FILE_ID/export?format=doc)
<--- format for docs file to be</p>
downloaded as doc https://drive.google.com/file/d/uc?export=download&id=DRIVE_FILE_ID
<--- format for files to be downloaded from google drive</p>

After creating the direct link to download now get the response of the url and download the content

For downloading the google doc file in .doc format

```
In [5]: ▶
```

```
# Changing the original url to downloadable doc

org_url = "https://docs.google.com/document/d/1VTMfaT9oFXbjr0_yS9gvcnP5daVZV1OHBi0UhbjGeNc"
changed_url = org_url + '/export?format=doc'
import requests

# URL of the file to be downloaded is defined as url
response = requests.get(changed_url) # create HTTP response object

# send a HTTP request to the server and save
# the HTTP response in a response object called response

file_name = 'downloaded_files/sample.doc'
with open(file_name, 'wb') as file:

# Saving received content as a file in binary format

# write the contents of the response (r.content)
# to a new file in binary mode.
file.write(response.content)

print('File Downloaded Successfully 💆')
```

File Downloaded Successfully 🚱

For downloading the google doc file in .pdf format

In [6]:

```
# Changing the original url to downloadable doc

org_url = "https://docs.google.com/document/d/1VTMfaT9oFXbjr0_yS9gvcnP5daVZV1OHBi0UhbjGeNc"
changed_url = org_url + '/export?format=doc'

import requests

response = requests.get(changed_url, stream = True)

with open("downloaded_files/sample.pdf","wb") as pdf:
    for chunk in response.iter_content(chunk_size=1024):

    # writing one chunk at a time to pdf file
    if chunk:
        pdf.write(chunk)

print('File Downloaded Successfully \( \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overli
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File Downloaded Successfully