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## How to replace text from PDF in Python and PDF.co Web API

PDF.co Web API: the Rest API that provides set of data extraction functions, tools for documents manipulation, splitting and merging of pdf files. Includes built-in OCR, images recognition, can generate and read barcodes from images, scans and pdf.

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## Source Code Files:

ReplaceTextFromUploadedFile.py

```
import os
import requests # pip install requests

# The authentication key (API Key).
# Get your own by registering at https://app.pdf.co/documentation/api
API_KEY = "*****"

# Base URL for PDF.co Web API requests
BASE_URL = "https://api.pdf.co/v1"

# Source PDF file
SourceFile = ".\sample.pdf"
# PDF document password. Leave empty for unprotected documents.
Password = ""
# Destination PDF file name
DestinationFile = ".\result.pdf"
```

```

def main(args = None):
    uploadedFileUrl = uploadFile(SourceFile)
    if (uploadedFileUrl != None):
        replaceStringFromPdf(uploadedFileUrl, DestinationFile)

def replaceStringFromPdf(uploadedFileUrl, destinationFile):
    """Replace Text FROM UPLOADED PDF FILE using PDF.co Web API"""

    # Prepare URL for 'Replace Text from PDF' API request
    url = "{}/pdf/edit/replace-text?name={}&password={}&url={}&searchString=The most conspicuous feature of&replace
    BASE_URL,
    os.path.basename(destinationFile),
    Password,
    uploadedFileUrl
    )

    # Execute request and get response as JSON
    response = requests.get(url, headers={ "x-api-key": API_KEY, "content-type": "application/octet-stream" })
    if (response.status_code == 200):
        json = response.json()

        if json["error"] == False:
            # Get URL of result file
            resultFileUrl = json["url"]
            # Download result file
            r = requests.get(resultFileUrl, stream=True)
            if (r.status_code == 200):
                with open(destinationFile, 'wb') as file:
                    for chunk in r:
                        file.write(chunk)
                    print(f"Result file saved as \"{destinationFile}\" file.")
            else:
                print(f"Request error: {response.status_code} {response.reason}")
        else:
            # Show service reported error
            print(json["message"])
        else:
            print(f"Request error: {response.status_code} {response.reason}")

def uploadFile(fileName):
    """Uploads file to the cloud"""

    # 1. RETRIEVE PRESIGNED URL TO UPLOAD FILE.

    # Prepare URL for 'Get Presigned URL' API request
    url = "{}/file/upload/get-presigned-url?contenttype=application/octet-stream&name={}".format(
        BASE_URL, os.path.basename(fileName))

    # Execute request and get response as JSON
    response = requests.get(url, headers={ "x-api-key": API_KEY })
    if (response.status_code == 200):
        json = response.json()

        if json["error"] == False:
            # URL to use for file upload
            uploadUrl = json["presignedUrl"]
            # URL for future reference
            uploadedFileUrl = json["url"]

            # 2. UPLOAD FILE TO CLOUD.
            with open(fileName, 'rb') as file:
                requests.put(uploadUrl, data=file, headers={ "x-api-key": API_KEY, "content-type": "application/octet-stream" })

            return uploadedFileUrl
        else:
            # Show service reported error
            print(json["message"])
        else:
            print(f"Request error: {response.status_code} {response.reason}")

    return None

if __name__ == '__main__':
    main()

```

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VIDEO

<https://www.youtube.com/watch?v=NEwNs2b9YN8>

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