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How to optimize PDF from uploaded file for PDF optimization API in Python using ByteScout Cloud API Server

Learn in simple ways: How to optimize PDF from uploaded file for PDF optimization API in Python

We regularly create and update our sample code library so you may quickly learn PDF optimization API and the step-by-step process in Python. ByteScout Cloud API Server was designed to assist PDF optimization API in Python. ByteScout Cloud API Server is the ready to deploy Web API Server that can be deployed in less than thirty minutes into your own in-house Windows server (no Internet connnection is required to process data!) or into private cloud server. Can store data on in-house local server based storage or in Amazon AWS S3 bucket. Processing data solely on the server using built-in ByteScout powered engine, no cloud services are used to process your data!.

Want to learn quickly? These fast application programming interfaces of ByteScout Cloud API Server for Python plus the instruction and the code below will help to learn how to optimize PDF from uploaded file. Open your Python project and simply copy & paste the code and then run your app! Further improvement of the code will make it more robust.

Our website provides free trial version of ByteScout Cloud API Server that gives source code samples to assist with your Python project.

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Source Code Files:

OptimizePdfFromUploadedFile.py

```
import os
import requests # pip install requests

# Please NOTE: In this sample we're assuming Cloud Api Server is hosted at "https://localhost".
# If it's not then please replace this with with your hosting url.

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

# 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):
        optimizePDF(uploadedFileUrl, DestinationFile)


def optimizePDF(uploadedFileUrl, destinationFile):
    """Optimize uploaded PDF file using PDF.co Web API"""

    # Prepare URL for 'Optimize PDF' API request
    url = "{}/pdf/optimize?name={}&password={}&url={}".format(
        BASE_URL,
        os.path.basename(destinationFile),
        Password,
        uploadedFileUrl
    )

    # Execute request and get response as JSON
    response = requests.get(url, headers={  "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)
```

```
    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={  "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()
```

VIDEO

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

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