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How to convert PDF to text from uploaded file asynchronously for PDF to text API in Python with ByteScout Cloud API Server

Step By Step Instructions on how to convert PDF to text from uploaded file asynchronously for PDF to text API in Python

These simple tutorials explain the code material for beginners and advanced programmers who are using Python. ByteScout Cloud API Server was designed to assist PDF to text 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!.

Python code snippet like this for ByteScout Cloud API Server works best when you need to quickly implement PDF to text API in your Python application. Follow the tutorial and copy - paste code for Python into your project's code editor. Enjoy writing a code with ready-to-use sample Python codes to implement PDF to text API using ByteScout Cloud API Server.

ByteScout Cloud API Server - free trial version is available on our website. Also, there are other code samples to help you with your Python application included into trial version.

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Source Code Files:

ConvertPdfToTextFromUploadedFileAsynchronously.py

```
""" Cloud API asynchronous "PDF To Text" job example.
    Allows to avoid timeout errors when processing huge or scanned PDF documents.
"""
import os
import requests # pip install requests
import time
import datetime

# 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"
# Comma-separated list of page indices (or ranges) to process. Leave empty for all pages. Example: '0,2-5,7-'.
Pages = ""
# PDF document password. Leave empty for unprotected documents.
Password = ""
# Destination TXT file name
DestinationFile = ".\\result.txt"
# (!) Make asynchronous job
Async = True


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


def convertPdfToText(uploadedFileUrl, destinationFile):
    """Converts PDF To Text using PDF.co Web API"""

    # Prepare URL for 'PDF To Text' API request
    url = "{}/pdf/convert/to/text?async={}&name={}&password={}&pages={}&url={}".format(
        BASE_URL,
        Async,
        os.path.basename(destinationFile),
        Password,
        Pages,
        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:
            # Asynchronous job ID
            jobId = json["jobId"]
            #  URL of the result file
            resultFileUrl = json["url"]

            # Check the job status in a loop.
            # If you don't want to pause the main thread you can rework the code
            # to use a separate thread for the status checking and completion.
            while True:
                status = checkJobStatus(jobId) # Possible statuses: "working", "failed", "aborted", "success".

                # Display timestamp and status (for demo purposes)
                print(datetime.datetime.now().strftime("%H:%M.%S") + ": " + status)

                if status == "success":
                    # Download result file
                    r = requests.get(resultFileUrl, stream=True)
                    if (r.status_code == 200):
```

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                    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}")
                break
            elif status == "working":
                # Pause for a few seconds
                time.sleep(3)
            else:
                print(status)
                break
        else:
            # Show service reported error
            print(json["message"])
    else:
        print(f"Request error: {response.status_code} {response.reason}")


def checkJobStatus(jobId):
    """Checks server job status"""

    url = f"{BASE_URL}/job/check?jobid={jobId}"

    response = requests.get(url)
    if (response.status_code == 200):
        json = response.json()
        return json["status"]
    else:
        print(f"Request error: {response.status_code} {response.reason}")

    return None


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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