

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

Step-by-step tutorial:How to convert PDF to image from uploaded file asynchronously to have PDF to image API in Python

Check these thousands of pre-made source code samples for simple implementation in your own programming projects. PDF to image API in Python can be applied with ByteScout Cloud API Server. ByteScout Cloud API Server is API server that is ready to use and can be installed and deployed in less than 30 minutes on your own Windows server or server in a cloud. It can save data and files on your local server-based file storage or in Amazon AWS S3 storage. Data is processed solely on the API server and is powered by ByteScout engine, no cloud services or Internet connection is required for data processing..

Python code snippet like this for ByteScout Cloud API Server works best when you need to quickly implement PDF to image API in your Python application. Follow the tutorial and copy - paste code for Python into your project's code editor. Easy to understand tutorials are available along with installed ByteScout Cloud API Server if you'd like to learn more about the topic and the details of the API.

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Source Code Files:

ConvertPdfToImageFromUploadedFileAsynchronously.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 = ""
# (!) Make asynchronous job
Async = True

def main(args = None):
    uploadedFileUrl = uploadFile(SourceFile)
    if (uploadedFileUrl != None):
        convertPdfToImage(uploadedFileUrl)

def convertPdfToImage(uploadedFileUrl):
    """Converts PDF To Image using PDF.co Web API"""

    # Prepare URL for 'PDF To Png' API request
    url = "{}/pdf/convert/to/png?async={}&password={}&pages={}&url={}".format(
        BASE_URL,
        Async,
        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
            jobld = json["jobld"]
            # URL of the result file
            resultFilePlaceholder = 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(jobld) # 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":

                    resJsonImgFiles = requests.get(resultFilePlaceholder)

                    # Download generated PNG files
                    part = 1
```

```

for resultFileUrl in resJsonImgFiles.json():
    # Download Result File
    r = requests.get(resultFileUrl, stream=True)

    localFileUrl = f"Page{part}.png"

    if r.status_code == 200:
        with open(localFileUrl, 'wb') as file:
            for chunk in r:
                file.write(chunk)
            print(f"Result file saved as \"{localFileUrl}\" file.")
    else:
        print(f"Request error: {response.status_code} {response.reason}")

    part = part + 1

    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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