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PDF password and security in Python and PDF.co Web API

PDF.co Web API is 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:

ProtectPDFDocument.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"

# Direct URL of source PDF file.
SourceFileURL = "https://bytescout-com.s3-us-west-2.amazonaws.com/files/demo-files/clo

# Destination PDF file name
DestinationFile = ".\\protected.pdf"

# Passwords to protect PDF document
# The owner password will be required for document modification.
# The user password only allows to view and print the document.
OwnerPassword = "123456"
UserPassword = "654321"

# Encryption algorithm.
# Valid values: "RC4_40bit", "RC4_128bit", "AES_128bit", "AES_256bit".
EncryptionAlgorithm = "AES_128bit"

# Allow or prohibit content extraction for accessibility needs.
AllowAccessibilitySupport = True

# Allow or prohibit assembling the document.
AllowAssemblyDocument = True

# Allow or prohibit printing PDF document.
AllowPrintDocument = True

# Allow or prohibit filling of interactive form fields (including signature fields) in
AllowFillForms = True

# Allow or prohibit modification of PDF document.
AllowModifyDocument = True

# Allow or prohibit copying content from PDF document.
AllowContentExtraction = True

# Allow or prohibit interacting with text annotations and forms in PDF document.
AllowModifyAnnotations = True

# Allowed printing quality.
# Valid values: "HighResolution", "LowResolution"
PrintQuality = "HighResolution"

# Runs processing asynchronously.
# Returns Use JobId that you may use with /job/check to check state of the processing
Async = False

def main(args = None):
    protectPDF(SourceFileURL, DestinationFile)

def protectPDF(uploadedFileUrl, destinationFile):
    """Protect PDF using PDF.co Web API"""
```

```

# Prepare requests params as JSON
# See documentation: https://apidocs.pdf.co
parameters = {"name": os.path.basename(destinationFile), "url": uploadedFileUrl, "
              "userPassword": UserPassword, "encryptionAlgorithm": EncryptionAlgor
              "allowAccessibilitySupport": AllowAccessibilitySupport,
              "allowAssemblyDocument": AllowAssemblyDocument, "allowPrintDocument"
              "allowFillForms": AllowFillForms, "allowModifyDocument": AllowModify
              "allowContentExtraction": AllowContentExtraction, "allowModifyAnnota
              "printQuality": PrintQuality, "async": Async}

# Serializing json
import json
json_object = json.dumps(parameters, indent=4)

# Prepare URL for 'PDF Security' API request
url = "{}pdf/security/add".format(BASE_URL)

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

    if jsonResp["error"] == False:
        # Get URL of result file
        resultFileUrl = jsonResp["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(jsonResp["message"])
else:
    print(f"Request error: {response.status_code} {response.reason}")

if __name__ == '__main__':
    main()

```

VIDEO

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

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