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How to convert document to PDF for DOC to PDF API in Salesforce using 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:

DOCTOPDFConvertor.cls

```
public class DOCTOPDFConvertor {
```

```

String API_KEY = '*****';
@TestVisible
String fileName = 'sample'; // File name "sample.docx" which is available in Files
String DestinationFile = 'result.pdf'; //This is the Destination File Name.
public void convertDocxToPdf()
{
    ContentVersion cv = [select Title, VersionData from ContentVersion where Title
    Blob SourceFile = cv.VersionData;

    try
    {
        //1. Prepare URL for "Get Presigned URL" API call
        string url = 'https://api.pdf.co/v1/file/upload/get-presigned-url?contentt
        HttpRequest req = new HttpRequest();
        req.setHeader('x-api-key', API_KEY);
        req.setEndpoint(url);
        req.setMethod('GET');
        req.setTimeout(60000);
        Http http = new Http();
        HTTPResponse res = http.send(req);
        if(res.getStatusCode() == 200)
        {
            System.Debug('res ' + res);
            Map<String, Object> deserializedBody = (Map<String, Object>)JSON.dese
            Boolean isError = Boolean.ValueOf(deserializedBody.get('error'));
            if(isError == false)
            {
                // Get URL to use for the file upload
                String uploadUrl = String.ValueOf(deserializedBody.get('presignedU
                // Get URL of uploaded file to use with later API calls
                String uploadedFileUrl = String.ValueOf(deserializedBody.get('url'
                // 2. UPLOAD THE FILE TO CLOUD.
                if(uploadFile(API_KEY, uploadUrl, SourceFile))
                {
                    // 3. CONVERT UPLOADED DOC (DOCX) FILE TO PDF and download.
                    ConvertDocToPdf(API_KEY, DestinationFile, uploadedFileUrl);
                }
            }
        }
        else
        {
            System.debug('Error Response ' + res.getBody());
            System.Debug(' Status ' + res.getStatus());
            System.Debug(' Status Code' + res.getStatusCode());
            System.Debug(' Response String' + res.toString());
        }
    }
    catch(Exception ex)
    {
        String errorBody = 'Message: ' + ex.getMessage() + ' -- Cause: ' + ex.getC
        System.Debug(errorBody);
    }
}

@TestVisible
public static boolean uploadFile(String API_KEY, String url, Blob sourceFile)
{
    HttpRequest req = new HttpRequest();
    req.setHeader('x-api-key', API_KEY);

```

```

req.setHeader('Content-Type', 'application/octet-stream');
req.setEndpoint(url);
req.setMethod('PUT');
req.setTimeout(60000);
req.setBodyAsBlob(sourceFile);
Http http = new Http();
HTTPResponse res = http.send(req);
if(res.getStatusCode() == 200)
{
    System.Debug(res);
    return true;
}
else
{
    System.debug('Error Response ' + res.getBody());
    System.Debug(' Status ' + res.getStatus());
    System.Debug(' Status Code' + res.getStatusCode());
    System.Debug(' Response String' + res.toString());
    return false;
}
}

public static void ConvertDocToPdf(String API_KEY, String DestinationFile, String
{
    Map<string, object> parameters = new Map<string, object>();
    parameters.put('name', DestinationFile);
    parameters.put('url', uploadedFileUrl);
    string jsonPayload = Json.serialize(parameters);
    String url = 'https://api.pdf.co/v1/pdf/convert/from/doc';

    HttpRequest req = new HttpRequest();
    req.setHeader('x-api-key', API_KEY);
    req.setHeader('Content-Type', 'application/json');
    req.setEndpoint(url);
    req.setMethod('POST');
    req.setTimeout(60000);
    req.setBody(jsonPayload);
    Http http = new Http();
    HTTPResponse res = http.send(req);
    if(res.getStatusCode() == 200)
    {
        System.Debug(res);
        Map<String, Object> deserializedBody = (Map<String, Object>)JSON.deserialize(
        Boolean isError = Boolean.ValueOf(deserializedBody.get('error'));
        if(isError == false)
        {
            String resultFileUrl = String.ValueOf(deserializedBody.get('url'));
            downloadPDFAndStore(resultFileUrl, DestinationFile);
        }
    }
    else
    {
        System.debug('Error Response ' + res.getBody());
        System.Debug(' Status ' + res.getStatus());
        System.Debug(' Status Code' + res.getStatusCode());
        System.Debug(' Response String' + res.toString());
    }
}
}

```

@TestVisible

```

private static void downloadPDFAndStore(String extFileUrl, String DestinationFile)
{
    Http h = new Http();
    HttpRequest req = new HttpRequest();
    extFileUrl = extFileUrl.replace(' ', '%20');
    req.setEndpoint(extFileUrl);
    req.setMethod('GET');
    req.setHeader('Content-Type', 'application/pdf');
    req.setCompressed(true);
    req.setTimeout(60000);
    //Now Send HTTP Request
    HttpResponse res = h.send(req);
    if(res.getStatusCode() == 200)
    {
        blob fileContent = res.getBodyAsBlob();
        ContentVersion conVer = new ContentVersion();
        conVer.ContentLocation = 'S'; // to use S specify this document is in Sale
        conVer.PathOnClient = DestinationFile + '.pdf'; // The files name, extensi
        conVer.Title = DestinationFile; // Display name of the files
        conVer.VersionData = fileContent;
        insert conVer;
        System.Debug('Success');
    }
    else
    {
        System.debug('Error Response ' + res.getBody());
        System.Debug(' Status ' + res.getStatus());
        System.Debug(' Status Code' + res.getStatusCode());
        System.Debug(' Response String' + res.toString());
    }
}
}
}

```

DOCTOPDFConvertorTest.cls

```

@isTest
private class DOCTOPDFConvertorTest
{
    @TestSetup
    static void makeData(){
        ContentVersion conVer = new ContentVersion();
        conVer.ContentLocation = 'S'; // to use S specify this document is in Salesfor
        conVer.PathOnClient = 'DestinationFile.pdf'; // The files name, extension is v
        conVer.Title = 'Sample'; // Display name of the files
        conVer.VersionData = Blob.ValueOf('fileContent');
        insert conVer;
    }

    private testmethod static void testconvertDocxToPdf()
    {

```

```

    Test.setMock(HttpCalloutMock.class, new DOCTOPDFConverterTest.DocumentCreation
    DOCTOPDFConverter dc = new DOCTOPDFConverter();
    dc.fileName = 'Sample';
    Test.startTest();
    dc.convertDocxToPdf();
    Test.stopTest();
    List<ContentVersion> cv = [select Id from ContentVersion];
    System.assertEquals(2, cv.size());
}

private testmethod static void testuploadFile()
{
    Test.setMock(HttpCalloutMock.class, new DOCTOPDFConverterTest.DocumentCreation
    Test.startTest();
    Boolean result = DOCTOPDFConverter.uploadFile('abc', 'https://www.google.com',
    Test.stopTest();
    System.assertEquals(false, result);
}

private testmethod static void testconvertDocxToPdfError()
{
    DOCTOPDFConverter dc = new DOCTOPDFConverter();
    dc.fileName = 'Sample';
    Test.startTest();
    dc.convertDocxToPdf();
    Test.stopTest();
    List<ContentVersion> cv = [select Id from ContentVersion];
    System.assertEquals(1, cv.size());
}

public class DocumentCreationMock implements HttpCalloutMock {
    public HTTPResponse respond(HTTPRequest req) {
        HttpResponse res = new HttpResponse();
        String testBody = '{"presignedUrl":"https://pdf-temp-files.s3-us-west-2.am
        res.setHeader('Content-Type', 'application/json');
        res.setBody(testBody);
        res.setStatusCode(200);
        return res;
    }
}

public class DocumentCreationErrorMock implements HttpCalloutMock {
    public HTTPResponse respond(HTTPRequest req) {
        HttpResponse res = new HttpResponse();
        String testBody = '{"presignedUrl":"https://pdf-temp-files.s3-us-west-2.am
        res.setHeader('Content-Type', 'application/json');
        res.setBody(testBody);
        res.setStatusCode(201);
        return res;
    }
}
}
}

```

VIDEO

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

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