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## How to convert HTML to PDF for HTML to PDF API in Salesforce with PDF.co Web API

PDF.co Web API is the Web API with a set of tools for documents manipulation, data conversion, data extraction, splitting and merging of documents. Includes image recognition, built-in OCR, barcode generation and barcode decoders to decode bar codes from scans, pictures and pdf.

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## Source Code Files:

**GeneratePDFFromHTML.cls**

```
public with sharing class GeneratePDFFromHTML {
```

```

static String API_KEY = '*****';
@TestVisible
String fileName = 'SampleHTMLDocument';
string destinationFile = 'generatedPDFFromHTML.pdf';
public void GeneratePDFFileFromHTML()
{
    try
    {
        ContentVersion cv = [select Title, VersionData from ContentVersion where T
String body = cv.VersionData.toString();
Map<string, Object> parameters = new Map<string, Object>();
parameters.put('html', body);
parameters.put('name', destinationFile);
parameters.put('margins', '5px 5px 5px 5px');
parameters.put('paperSize', 'Letter');
parameters.put('orientation', 'Portrait');
parameters.put('printBackground', true);
parameters.put('asynxy', false);
parameters.put('header', '');
parameters.put('footer', '');
string jsonPayload = Json.serialize(parameters);

string url = 'https://api.pdf.co/v1/pdf/convert/from/html';
HttpRequest req1 = new HttpRequest();
req1.setBody(jsonPayload);
req1.setHeader('x-api-key', API_KEY);
req1.setHeader('Content-Type', 'application/json');
req1.setEndpoint(url);
req1.setMethod('POST');
req1.setTimeout(60000);
Http http = new Http();
HTTPResponse res1 = http.send(req1);
if(res1.getStatusCode() == 200)
{
    Map<String, Object> deserializedBody = (Map<String, Object>)JSON.dese
Boolean isError = Boolean.ValueOf(deserializedBody.get('error'));
if(isError == false)
{
    String urlVal = (String)deserializedBody.get('url');
    downloadPDFAndStore(urlVal, DestinationFile);
}
}
else
{
    System.debug('Success Response ' + res1.getBody());
    System.Debug(' Status ' + res1.getStatus());
    System.Debug(' Status Code' + res1.getStatusCode());
    System.Debug(' Status String' + res1.toString());
}
}
catch(Exception ex)
{
    String errorBody = 'Message: ' + ex.getMessage() + ' -- Cause: ' + ex.getC
    System.Debug(errorBody);
}
}

@TestVisible
private static void downloadPDFAndStore(String extFileUrl, String DestinationFile)

```

```

{
    try
    {
        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
            conVer.PathOnClient = DestinationFile + '.pdf'; // The files name, ext
            conVer.Title = DestinationFile; // Display name of the files
            conVer.VersionData = fileContent;
            insert conVer;
            System.Debug('Success');
        }
        else
        {
            System.debug('Success Response ' + res.getBody());
            System.Debug(' Status ' + res.getStatus());
            System.Debug(' Status Code' + res.getStatusCode());
            System.Debug(' Status String' + res.toString());
        }
    }
    catch(Exception ex)
    {
        String errorBody = 'Message: ' + ex.getMessage() + ' -- Cause: ' + ex.getC
        System.Debug(errorBody);
    }
}
}

```

## GeneratePDFFromHTMLTest.cls

```

@isTest
public class GeneratePDFFromHTMLTest
{
    @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 testGeneratePDFFileFromHTML()
    {
        Test.setMock(HttpCalloutMock.class, new GeneratePDFFromHTMLTest.DocumentCreati
        Test.startTest();
        GeneratePDFFromHTML dc = new GeneratePDFFromHTML();
        dc.fileName = 'Sample';
        dc.GeneratePDFFileFromHTML();
        Test.stopTest();
        List<ContentVersion> cv = [select Id from ContentVersion];
        System.assertEquals(2, cv.size());
    }

    private testmethod static void testGeneratePDFFileFromHTMLException()
    {
        Test.startTest();
        GeneratePDFFromHTML dc = new GeneratePDFFromHTML();
        dc.GeneratePDFFileFromHTML();
        Test.stopTest();
        List<ContentVersion> cv = [select Id from ContentVersion];
        System.assertEquals(1, cv.size());
    }

    private testmethod static void testdownloadPDFAndStoreException()
    {
        GeneratePDFFromHTML.downloadPDFAndStore(null, null);
        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 = '{"hash":"e3b0c44298fc1c149afb4c8996fb92427ae41e4649b93
            res.setHeader('Content-Type', 'application/json');
            res.setBody(testBody);
            res.setStatusCode(200);
            return res;
        }
    }
}

```

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

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