

How to convert DOC to PDF from uploaded file for DOC to PDF API in Delphi with 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:

ConvertDOCToPDFFromUploadedFile.dpr

```
program ConvertDOCToPDFFromUploadedFile;
//*****//
//
// Download Free Evaluation Version From: https://bytescout.com/download/web-installer //
//
// Also available as Web API! Get Your Free API Key: https://app.pdf.co/signup //
//
// Copyright © 2017-2020 ByteScout, Inc. All rights reserved. //
// https://www.bytescout.com //
// https://pdf.co //
//
//*****//
{$APPTYPE CONSOLE}
```

```

{$R *.res}

uses
  System.SysUtils,
  Classes,
  IdHTTP,
  IdURI,
  IdSSL,
  IdSSLOpenSSL,
  System.JSON,
  IdMultipartFormData;

const
  // The authentication key (API Key).
  // Get your own by registering at https://app.pdf.co/documentation/api
  API_KEY: string = '*****';
  // Source DOC or DOCX file
  SOURCE_FILE: string = 'sample.docx';
  // Destination PDF file name
  DESTINATION_FILE: string = 'result.pdf';

var
  http: TIdHTTP;
  http_file_downloader: TIdHTTP;
  http_file_uploader: TIdHTTP;
  response_stream: TStringStream;
  response: string;
  io_handler: TIdSSLIOHandlerSocketOpenSSL;
  response_json: TJSONObject;
  is_error: TJSONBool;
  file_url: string;
  file_stream: TFileStream;
  error_message: TJSONString;
  presigned_url: string;
  uploaded_file_url: string;
  query: string;
  waiting_any_key: char;
  multi_part_form_data_stream: TIdMultiPartFormDataStream;
  file_name: string;

begin
  // Put the necessary libeay32.dll & ssleay32.dll library versions in the
  // program folder
  io_handler := TIdSSLIOHandlerSocketOpenSSL.Create(nil);
  io_handler.SSLOptions.Method := sslvSSLv23;
  io_handler.SSLOptions.SSLVersions := [sslvSSLv23];

  http := TIdHTTP.Create(nil);
  http.HTTPOptions := http.HTTPOptions + [hoForceEncodeParams];
  http.AllowCookies := true;
  http.HandleRedirects := true;
  http.Request.Connection := 'keep-alive';
  http.Request.ContentType := 'application/json; charset=utf-8';
  http.Request.UserAgent := 'User-Agent:Mozilla/5.0 (Windows NT 6.1; ) AppleWebKit/537.36 (KHTML, like Gecko) C';
  http.IOHandler := io_handler;

  response_stream := TStringStream.Create();
  file_stream := nil;
  http_file_uploader := nil;
  multi_part_form_data_stream := nil;
  http_file_downloader := nil;
try
  // 1. RETRIEVE THE PRESIGNED URL TO UPLOAD THE FILE.
  // * If you already have a direct file URL, skip to the step 3.

  // Prepare URL for `Get Presigned URL` API call
  query := TIdURI.URLEncode(Format('https://api.pdf.co/v1/file/upload/get-presigned-url' +
    '?contenttype=application/octet-stream&name=%s',
    [ExtractFileName(SOURCE_FILE)]));

  // Set API Key
  http.Request.CustomHeaders.AddValue('x-api-key', API_KEY);
  // Execute request
  http.Get(query, response_stream);
  // Parse JSON response
  response_json := TJSONObject.ParseJSONValue(response_stream.DataString, false) as TJSONObject;
  is_error := response_json.Values['error'] as TJSONBool;

```

if (not is_error.AsBoolean) then begin

```
// Get URL to use for the file upload
presigned_url := TJSONString(response_json.Values['presignedUrl']).ToString();
presigned_url := StringReplace(presigned_url, '"', "'", [rfReplaceAll]);
// Get URL of uploaded file to use with later API calls
uploaded_file_url := TJSONString(response_json.Values['url']).ToString();
uploaded_file_url := StringReplace(uploaded_file_url, '"', "'", [rfReplaceAll]);
```

// 2. UPLOAD THE FILE TO CLOUD.

```
http_file_uploader := TIdHTTP.Create(nil);
http_file_uploader.AllowCookies := true;
http_file_uploader.HandleRedirects := true;
http_file_uploader.Request.CustomHeaders.AddValue('x-api-key', API_KEY);
http_file_uploader.Request.CustomHeaders.AddValue('content-type', 'application/octet-stream');
file_stream := TFileStream.Create(SOURCE_FILE, fmOpenRead);
response := http_file_uploader.Put(presigned_url, file_stream);
file_stream.Free();
```

// 3. CONVERT UPLOADED DOC (DOCX) FILE TO PDF

```
// Prepare URL for `DOC To PDF` API call
query := TIdURI.URLEncode(Format('https://api.pdf.co/v1/pdf/convert/from/doc' +
    '?name=%s&url=%s',
    [ExtractFileName(DESTINATION_FILE), uploaded_file_url]));
```

// Execute request

```
response_stream.Clear();
http.Get(query, response_stream);
response_json := TJSONObject.ParseJSONValue(response_stream.DataString, false) as TJSONObject;
is_error := response_json.Values['error'] as TJSONBool;
if (not is_error.AsBoolean) then begin
```

```
file_url := TJSONString(response_json.Values['url']).ToString();
file_url := StringReplace(file_url, '"', "'", [rfReplaceAll]);
file_name := ExtractFileName(StringReplace(file_url, '/', '\', [rfReplaceAll]));
file_name := IncludeTrailingPathDelimiter(ExtractFilePath(ParamStr(0))) + file_name;
http_file_downloader := TIdHTTP.Create(nil);
```

// Download generated file

```
file_stream := TFileStream.Create(file_name, fmCreate);
http_file_downloader.Get(file_url, file_stream);
```

```
Writeln(Format('Generated PDF file saved as "%s" file.', [file_name]));
end else begin
```

```
error_message := response_json.Values['message'] as TJSONString;
raise Exception.Create(error_message.ToString);
end;
```

end else begin

```
error_message := response_json.Values['message'] as TJSONString;
raise Exception.Create(error_message.ToString);
end;
```

except

on E: Exception do begin

```
response := http.ResponseText;
Writeln(E.ClassName, ': ', E.Message);
end;
```

end;

finally

```
response_stream.Free();
```

```
http.Free();
```

```
if (Assigned(file_stream)) then
```

```
file_stream.Free();
```

```
if (Assigned(multi_part_form_data_stream)) then
multi_part_form_data_stream.Free();
```

```
if (Assigned(http_file_uploader)) then
```

```
http_file_uploader.Free();
```

```
if (Assigned(http_file_downloader)) then
```

```
http_file_downloader.Free();
```

```
Writeln('Press any key to continue...');
```

```
Readln(waiting_any_key);
```

end;

end.

VIDEO

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

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