www.bytescout.com

How to add text and images to PDF in Delphi using ByteScout Cloud API Server

What is ByteScout Cloud API Server? It is the ready to use Web API Server that can be deployed in less than 30 minutes into your own in-house server or into private cloud server. Can store data on in-house local server based storage or in Amazon AWS S3 bucket. Processing data solely on the server using buil-in ByteScout powered engine, no cloud services are used to process your data!.

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Source Code Files:

AddImagesToExistingPDF.dpr

```
```

```
program AddImagesToExistingPDF;

//**************************************************************************************
//
// 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
//
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// https://www.bytescout.com
// https://pdf.co
//
//**************************************************************************************

{$APPTYPE CONSOLE}

{$R *.res}

uses
    System.SysUtils,
    Classes,
    IdURI,
    ByteScoutWebApiExec in 'ByteScoutWebApiExec.pas';

var
    query: string;
    file_name: string;
    waiting_any_key: char;

const
    // The authentication key (API Key).
    // Get your own by registering at https://app.pdf.co/documentation/api
    API_KEY: string = '*****************************************'
    // Direct URL of source PDF file.
    SOURCE_FILE_URL: string = 'https://bytescout-com.s3.amazonaws.com/files/demo-files
    // Comma-separated list of page indices (or ranges) to process. Leave empty for al
    PAGES: string = '';
    // PDF document password. Leave empty for unprotected documents.
    PASSWORD: string = '';

    // Destination PDF file name
    DESTINATION_FILE: string = 'result.pdf';

    // Image params
    TYPE1: string = 'image';
    X1: integer = 400;
    Y1: integer = 20;
    WIDTH1: integer = 119;
    HEIGHT1: integer = 32;
    IMAGE_URL: string = 'https://bytescout-com.s3.amazonaws.com/files/demo-files/cloud

begin
    try
        // Prepare URL for `PDF Edit` API call
        query := TIdURI.URLEncode(Format('https://localhost/pdf/edit/add' +
            '?name=%s&password=%s&pages=%s' +
            '&url=%s&type=%s&x=%d&y=%d&width=%d&height=%d&urlimage=%s',
            [ExtractFileName(DESTINATION_FILE), PASSWORD, PAGES,
            SOURCE_FILE_URL, TYPE1, X1, Y1, WIDTH1, HEIGHT1, IMAGE_URL]));
```

```
        if (WebAPIExec(query, API_KEY, file_name)) then
            Writeln(Format('Generated file saved to "%s" file."', [file_name]));
    finally
        Writeln('Press any key to continue...');
        Readln(waiting_any_key);
    end;
end.
```

ByteScoutWebApiExec.pas

```
unit ByteScoutWebApiExec;

interface

function WebAPIExec(query, api_key: string; var file_name: string): boolean;

implementation

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

function WebAPIExec(query, api_key: string; var file_name: string): boolean;
var
    http: TIdHTTP;
    http_file_downloader: TIdHTTP;
    response_stream: TStringStream;
    response: string;
    io_handler: TIdSSLIOHandlerSocketOpenSSL;
    response_json: TJSONObject;
    is_error: TJSONBool;
    file_url: string;
    file_stream: TFileStream;
    error_message: TJSONString;
begin
    Result := false;
    file_name := '';
    // 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/5
    http.IOHandler := io_handler;

    response_stream := TStringStream.Create();
    file_stream := nil;
    http_file_downloader := nil;
    try
        try
            // 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, fa
            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, '/', '\', [rfRepl
                file_name := IncludeTrailingPathDelimiter(ExtractFilePath(ParamStr(0))
                http_file_downloader := TIdHTTP.Create(nil);

                // Download generated file
                file_stream := TFileStream.Create(file_name, fmCreate);
                http_file_downloader.Get(file_url, file_stream);

                Result := true;
            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(http_file_downloader)) then
            http_file_downloader.Free();
    end;
end;

end.
```

VIDEO

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

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