How to read barcode from uploaded file for barcode reader API in C# with PDF.co Web API

How to read barcode from uploaded file for barcode reader API in C#: Step By Step Tutorial

The sample source codes on this page will demonstrate you how to make barcode reader API in C#. Barcode reader API in C# can be implemented 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.

You will save a lot of time on writing and testing code as you may just take the code below and use it in your application. Sample code in C# is all you need. Copy-paste it to your the code editor, then add a reference to PDF.co Web API and you are ready to try it! This basic programming language sample code for C# will do the whole work for you in implementing barcode reader API in your app.

ByteScout free trial version is available for FREE download from our website. Programming tutorials along with source code samples are included.

C# - Program.cs

```
using System;
using System.IO;
using System.Net;
using Newtonsoft.Json.Linq;

namespace ByteScoutWebApiExample
{
        class Program
        {
                // The authentication key (API Key).
                // Get your own by registering at
https://app.pdf.co/documentation/api
                const String API_KEY = "**********************************";

                // Source file name
                const string SourceFile = @".\sample.pdf";
                // Comma-separated list of barcode types to search.
                // See valid barcode types in the documentation
https://app.pdf.co/documentation/api/1.0/barcode/read_from_url.html
                const string BarcodeTypes = "Code128,Code39,Interleaved2of5,EAN13";
                // Comma-separated list of page indices (or ranges) to process. Leave
empty for all pages. Example: '0,2-5,7-'.
                const string Pages = "";
```

```
        static void Main(string[] args)
        {
                // Create standard .NET web client instance
                WebClient webClient = new WebClient();

                // Set API Key
                webClient.Headers.Add("x-api-key", API_KEY);

                // 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
                string query = Uri.EscapeUriString(string.Format(
                        "https://api.pdf.co/v1/file/upload/get-presigned-url?
contenttype=application/octet-stream&name={0}",
                        Path.GetFileName(SourceFile)));

                try
                {
                        // Execute request
                        string response = webClient.DownloadString(query);

                        // Parse JSON response
                        JObject json = JObject.Parse(response);

                        if (json["error"].ToObject() == false)
                        {
                                // Get URL to use for the file upload
                                string uploadUrl =
json["presignedUrl"].ToString();
                                // Get URL of uploaded file to use with later
API calls
                                string uploadedFileUrl =
json["url"].ToString();

                                // 2. UPLOAD THE FILE TO CLOUD.

                                webClient.Headers.Add("content-type",
"application/octet-stream");
                                webClient.UploadFile(uploadUrl, "PUT",
SourceFile); // You can use UploadData() instead if your file is byte[] or Stream

                                // 3. READ BARCODES FROM UPLOADED FILE

                                // Prepare URL for `Barcode Reader` API call
                                query = Uri.EscapeUriString(string.Format(

"https://api.pdf.co/v1/barcode/read/from/url?types={0}&pages={1}&url={2}",
                                        BarcodeTypes,
                                        Pages,
                                        uploadedFileUrl));

                                // Execute request
                                response = webClient.DownloadString(query);

                                // Parse JSON response
                                json = JObject.Parse(response);

                                if (json["error"].ToObject() == false)
```

```
                                        {
                                                // Display found barcodes in console
                                                foreach (JToken token in
json["barcodes"])
                                                {
                                                        Console.WriteLine("Found
barcode:");
                                                        Console.WriteLine("  Type: "
+ token["TypeName"]);
                                                        Console.WriteLine("  Value: "
+ token["Value"]);
                                                        Console.WriteLine("  Document
Page Index: " + token["Page"]);
                                                        Console.WriteLine("
Rectangle: " + token["Rect"]);
                                                        Console.WriteLine("
Confidence: " + token["Confidence"]);
                                                        Console.WriteLine();
                                                }
                                        }
                                        else
                                        {
                                                // Display service reported error
Console.WriteLine(json["message"].ToString());
                                        }
                                }
                                else
                                {
                                        // Display service reported error
Console.WriteLine(json["message"].ToString());
                                }
                        }
                        catch (WebException e)
                        {
                                // Display request error
                                Console.WriteLine(e.ToString());
                        }

                        webClient.Dispose();


                        Console.WriteLine();
                        Console.WriteLine("Press any key...");
                        Console.ReadKey();
                }
        }
}
```

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