

How to read barcode from uploaded file (node for barcode reader API in JavaScript and ByteScout Cloud API Server)

How to read barcode from uploaded file (node in JavaScript with easy ByteScout code samples to make barcode reader API. Step-by-step tutorial

Every ByteScout tool includes sample JavaScript source codes that you can find here or in the folder with installed ByteScout product. ByteScout Cloud API Server was designed to assist barcode reader API in JavaScript. ByteScout Cloud API Server 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 built-in ByteScout powered engine, no cloud services are used to process your data!.

Use the code displayed below in your application to save a lot of time on writing and testing code. This sample code in JavaScript is all you need. Just copy-paste it to the code editor, then add a reference to ByteScout Cloud API Server and you are ready to try it! You can use these JavaScript sample examples in one or many applications.

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Source Code Files:

ReadBarcodeFromUploadedFile.js

```
/*jshint esversion: 6 */

// Please NOTE: In this sample we're assuming Cloud Api Server is hosted at "https://1
// If it's not then please replace this with with your hosting url.

var https = require("https");
var path = require("path");
var fs = require("fs");

// `request` module is required for file upload.
// Use "npm install request" command to install.
var request = require("request");

// Source file name
const SourceFile = "./sample.pdf";
// Comma-separated list of barcode types to search.
// barcode types
const BarcodeTypes = "Code128,Code39,Interleaved2of5,EAN13";
// Comma-separated list of page indices (or ranges) to process. Leave empty for all pag
const Pages = "";

// 1. RETRIEVE THE PRESIGNED URL TO UPLOAD THE FILE.
getPresignedUrl(SourceFile)
.then(([uploadUrl, uploadedFileUrl]) => {
  // 2. UPLOAD THE FILE TO CLOUD.
  uploadFile(SourceFile, uploadUrl)
  .then(() => {
    // 3. READ BARCODES FROM UPLOADED FILE
    readBarcodes(uploadedFileUrl, Pages, BarcodeTypes);
  })
  .catch(e => {
    console.log(e);
  });
})
.catch(e => {
  console.log(e);
});

function getPresignedUrl(localFile) {
  return new Promise(resolve => {
    // Prepare request to `Get Presigned URL` API endpoint
    let queryPath = `/file/upload/get-presigned-url?contenttype=application/octet-s
    let reqOptions = {
      host: "localhost",
      path: encodeURI(queryPath)
    };
    // Send request
    https.get(reqOptions, (response) => {
      response.on("data", (d) => {
        let data = JSON.parse(d);
        if (data.error == false) {
          // Return presigned url we received

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        resolve([data.presignedUrl, data.url]);
    }
    else {
        // Service reported error
        console.log("getPresignedUrl(): " + data.message);
    }
    });
}
.on("error", (e) => {
    // Request error
    console.log("getPresignedUrl(): " + e);
});
});
}

function uploadFile(localFile, uploadUrl) {
    return new Promise(resolve => {
        fs.readFile(SourceFile, (err, data) => {
            request({
                method: "PUT",
                url: uploadUrl,
                body: data,
                headers: {
                    "Content-Type": "application/octet-stream"
                }
            }, (err, res, body) => {
                if (!err) {
                    resolve();
                }
                else {
                    console.log("uploadFile() request error: " + e);
                }
            });
        });
    });
}

function readBarcodes(uploadedFileUrl, pages, barcodeTypes) {
    // Prepare request to `Barcode Reader` API endpoint
    let queryPath = `/barcode/read/from/url?types=${BarcodeTypes}&pages=${Pages}&url=${
    let reqOptions = {
        host: "localhost",
        path: encodeURI(queryPath),
        method: "GET"
    };
    // Send request
    https.get(reqOptions, (response) => {
        response.on("data", (d) => {
            response.setEncoding("utf8");
            // Parse JSON response
            let data = JSON.parse(d);
            if (data.error == false) {
                console.log(`Job #${data.jobId} has been created!`);
                checkIfJobIsCompleted(data.jobId, data.url);
            }
            else {
                // Service reported error
                console.log("readBarcodes(): " + data.message);
            }
        });
    });
}

```

```

    })
    .on("error", (e) => {
        // Request error
        console.log("readBarcodes(): " + e);
    });
}

function checkIfJobIsCompleted(jobId, resultFileUrlJson) {
    let queryPath = `/job/check?jobid=${jobId}`;
    let reqOptions = {
        host: "localhost",
        path: encodeURI(queryPath),
        method: "GET"
    };

    https.get(reqOptions, (response) => {
        response.on("data", (d) => {
            response.setEncoding("utf8");
            // Parse JSON response
            let data = JSON.parse(d);
            console.log(`Checking Job #${jobId}, Status: ${data.status}, Time: ${new Date()}`);

            if (data.status == "working") {
                // Check again after 3 seconds
                setTimeout(function() { checkIfJobIsCompleted(jobId, resultFileUrlJson); }, 3000);
            }
            else if (data.status == "success") {

                request({ method: 'GET', uri: resultFileUrlJson, gzip: true },
                    function (error, response, body) {

                        // Parse JSON response
                        let respJsonFileArray = JSON.parse(body);

                        respJsonFileArray.forEach((element) => {
                            console.log("Found barcode:");
                            console.log("  Type: " + element["TypeName"]);
                            console.log("  Value: " + element["Value"]);
                            console.log("  Document Page Index: " + element["Page"]);
                            console.log("  Rectangle: " + element["Rect"]);
                            console.log("  Confidence: " + element["Confidence"]);
                            console.log();
                        }, this);
                    });
            }
            else {
                console.log(`Operation ended with status: "${data.status}".`);
            }
        })
    });
}

```

VIDEO

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

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