

How to replace text with image from PDF in JavaScript using 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:

ReplaceTextWithImageFromUploadedFile.js

```
/*jshint esversion: 6 */
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");

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

// Source PDF file
```

```

const SourceFile = "./sample.pdf";
// PDF document password. Leave empty for unprotected documents.
const Password = "";
// Destination PDF file name
const DestinationFile = "./result.pdf";

// 1. RETRIEVE PRESIGNED URL TO UPLOAD FILE.
getPresignedUrl(API_KEY, SourceFile)
.then(([,uploadUrl, uploadedFileUrl]) => {
  // 2. UPLOAD THE FILE TO CLOUD.
  uploadFile(API_KEY, SourceFile, uploadUrl)
  .then(() => {
    // 3. Replace Text With Image FROM UPLOADED PDF FILE
    replaceImageFromPdf(API_KEY, uploadedFileUrl, Password, DestinationFile);
  })
  .catch(e => {
    console.log(e);
  });
});
.catch(e => {
  console.log(e);
});

function getPresignedUrl(apiKey, localFile) {
  return new Promise(resolve => {
    // Prepare request to `Get Presigned URL` API endpoint
    let queryPath = `/v1/file/upload/get-presigned-url?contenttype=application/octet-stream&name=${path.basename(localFile)}`;
    let reqOptions = {
      host: "api.pdf.co",
      path: encodeURI(queryPath),
      headers: { "x-api-key": API_KEY }
    };
    // Send request
    https.get(reqOptions, (response) => {
      response.on("data", (d) => {
        let data = JSON.parse(d);
        if (data.error == false) {
          // Return presigned url we received
          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(apiKey, 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 replaceImageFromPdf(apiKey, uploadedFileUrl, password, destinationFile) {

```

```

// Prepare request to `Replace Text With Image from PDF` API endpoint
var queryPath = `/v1/pdf/edit/replace-text-with-image?name=${path.basename(destinationFile)}&password=${password}`;
let reqOptions = {
  host: "api.pdf.co",
  path: encodeURI(queryPath),
  method: "GET",
  headers: { "x-api-key": API_KEY }
};
// Send request
https.get(reqOptions, (response) => {
  response.on("data", (d) => {
    response.setEncoding("utf8");

    // Parse JSON response
    let data = JSON.parse(d);
    console.log(`Job #${data.jobId} has been created!`);

    if (data.error == false) {
      checkIfJobsCompleted(data.jobId, data.url, destinationFile);
    }
    else {
      // Service reported error
      console.log("readBarcodes(): " + data.message);
    }
  });
});
.on("error", (e) => {
  // Request error
  console.log("readBarcodes(): " + e);
});
}

function checkIfJobsCompleted(jobId, resultFileUrl, destinationFile) {
  let queryPath = `/v1/job/check?jobid=${jobId}`;
  let reqOptions = {
    host: "api.pdf.co",
    path: encodeURI(queryPath),
    method: "GET",
    headers: { "x-api-key": API_KEY }
  };

  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().toLocaleString()}`);

      if (data.status == "working") {
        // Check again after 3 seconds
        setTimeout(function() { checkIfJobsCompleted(jobId, resultFileUrl, destinationFile); }, 3000);
      }
      else if (data.status == "success") {
        // Download PDF file
        var file = fs.createWriteStream(destinationFile);
        https.get(resultFileUrl, (response2) => {
          response2.pipe(file)
            .on("close", () => {
              console.log(`Generated PDF file saved as "${destinationFile}" file.`);
            });
        });
      }
      else {
        console.log(`Operation ended with status: "${data.status}"`);
      }
    });
  });
}
}

```

VIDEO

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

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