File Uploader Library

<https://fineuploader.com/>

USE Case

I am developing a SaaS for the Separation and Devorce Industry to solve problems in the collection and management of Disclosure (Documents). and requests for further information and disclosure.

The file uploader is just one component of the solution stack

Let us call this project “Disclosure BOT”

For an idea of the documents involved check out <https://disclosurewiki.ca/divorce-disclosure-documents-checklist.html>

Tap the Navigate Button. This wiki will be incorporated into the the disclosure bot as a help file

**File loader Functionality Required**

1) AWS 3 storage

2) Ability to Set file name

( my host app will pass / set the filename variable for the uploaded file will be saved as. However the uploader will provide the file extension. .pdf, .png, docx etc

3) Ability to Set folder and subfolder where uploaded files will be saved in S3 and create these folders on the fly if required.

My host app will pass to the file uploader the folder, subfolder and file names.

What is not known with the fineuploader library has the ability to set the folder and subfolder values. One solution could be we use a reserved character like say “~” in the file name string value. Example: dtsw~manynard~noticeofassessment.pdf then we have a AWS Lambda object parse the file name string into folder / subfolder / filename. The Lambda object then moves the file into the S3 bucket with a folder structure

As root/dtsw/manynard/noticeofassessment.pdf

4) Merge files, The uploader has a multi document feature, In our use case uploads with multi attachments are to be merged into 1 document, Likely the fineuploader does not have the ability to merge documents. This could be left to a Lambda object and a 3rd part API

Again a solution could be we use a reserved character as a separator like say “~” in the file name value where we set a Session\_ID. Example: 1293803984~dtsw~manynard~noticeofassessment.pdf then we have a AWS Lambda object parse the session\_id and merge all of those files with the same session\_id and then move the file into the S3 bucket with a folder structure

As dtsw/manynard/noticeofassessment.pdf

Suggested file covertion API <https://cloudconvert.com/>

5) OCR

Again a solution could be we use a reserved character as a separator like say “~” in the file name value where we set a OCR flag. Example: 1293803984~true-true~dtsw~manynard~noticeofassessment.pdf then we have a AWS Lambda object read the file name parse out the OCR flag make a request to a OCR API and then move the file into the S3 bucket with a folder structure

As dtsw/manynard/noticeofassessment.pdf

6) FILE Convert

Image files (png, jpg etc) to converted to a pdf using a 3rd party API

Again a solution could be we use a reserved character as a separator like say “~” in the file name value where we set a Convert2PDF flag. Example: 1293803984~true-ture~dtsw~manynard~noticeofassessment.pdf then we have a AWS Lambda object read the file name parse out the OCR flag make a request to a OCR API and then move the file into the S3 bucket with a folder structure

As dtsw/manynard/noticeofassessment.pdf

max file size 5mb

7) The uploader html and scripts to be hosted at a AWS S3 bucket setup as a webserver if required. There will be a version of the uploader for eachj market served Canada, UK, USA, Australia etc and the AWS S3 Bucket will storage files will also be a local S3 location. This is mostly to satisfy legal requirements.

8) AWS S3 Security must be very tight with access granted to my Synology Server that is located in my office, but later with be hosted in a co-location “rackspace”. Synology has a native synchronization with AWS S3 and encryption and a will provide synchronization to my downstream users

**Notifications:**

On completion of file handling, a notification will be sent by HTTPS request visa HTTPS request to the host app with a url I will provide:

The payload of the url will contain:

Url of the document

Success / error information

Convert API usage details (for end user billing purposes)

Folder

Subfolder

**9) Not understood yet:**

How the S3 encryption works, and how it will work with the Synology encryption, Also, how it will affect the OCR operations on the files on the Synology Server.

Also how will the down stream users

**Inbound file naming convention**

document\_id~OCR~Covet2PDF~Folder~SubFolder~Filename~EXT

document\_id:12938300003~OCR:ture/false~Covet2PDF:true/false~Folder:text~SubFolder:text~Filename:text~EXT:text