Introduction

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Welcome to my Image catalog project. This is a solution for anyone with a private collection of things which can be photographed. In my case it's for original drawings, of which I have over 2000. But I also have collections of:
- Stamps
- Postcards
- Commemorative Coins
- 2-dimentional framed art
- Wooden Ducks
- Tribal and Modern Masks

So far I have a proof of concept SQL schema, an SSIS package on a nightly schedule and a python script that does the image resizing and moving. Files are moved into SQL Server file table. This in turn triggers the creation of some data collection fields in the database.

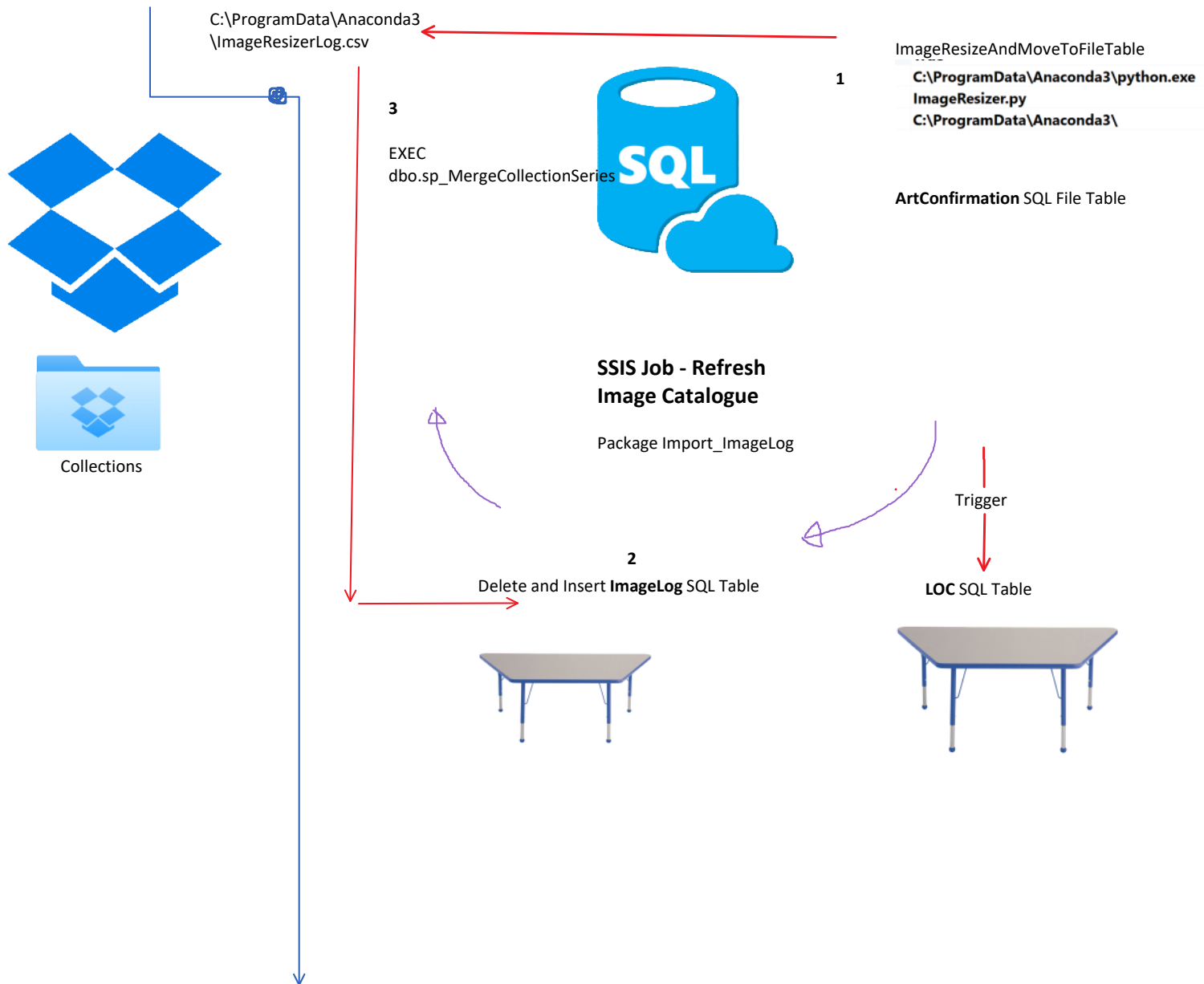As of this writing I've tested the SSIS package and created three useful reports:
- Letter of Conformity
- Sales Sheet
- Catalog of all Images

[Link to DropBox Project](#)

SSIS Package

C:\ProgramData\Anaconda3
\ImageResizerLog.csv

ImageResizeAndMoveToFileTable

1

**C:\ProgramData\Anaconda3\python.exe
ImageResizer.py
C:\ProgramData\Anaconda3**

3

EXEC
dbo.sp_MergeCollectionSeries

ArtConfirmation SQL File Table

Collections

**SSIS Job - Refresh
Image Catalogue**

Package Import_ImageLog

Trigger

2
Delete and Insert **ImageLog** SQL Table

LOC SQL Table

Python Script

This code traverses a directory, resizes and moves image files. And creates an Image Log.

ImageResiz
er

This is the python script as a file attachment from my local Dropbox drive.

ImageResizer.py

This is a link to the Drop Box File

```
172
173
174
175  #-----------------------INPUT
176
177  logName = "ImageResizerLog.csv" #THE NAME OF THE LOG. RENAME IF YOU WANT
178  rootDirectory = "C:\Dropbox (Personal)\Ligda_Artwork\Collections" #THE ROOT DIRECTORY THAT HAS ALL THE FOLDERS T
179  movingDirectory = "\\\\Desktop-t55dtu3\mssqlserver\LigdaArtFileTable\ArtConfirmation" #THE TARGET DIRECTORY WHER
180  #--movingDirectory = "C:\\resize"
181  ignoreList = ["Process", "process"]#IGNORE LIST. ADD WHATEVER YOU WANT TO IT!
182  newHeight = 4 #SET HEIGHT AND WIDTH IN INCHES!
183  newWidth = 4
184
185  #--------------------
186  resize = ImageResizer(rootDirectory=rootDirectory, ignoreList=ignoreList, movingDirectory=movingDirectory, logNa
187
188
189
190
```

NEXT STEPS:

Desired Functionality:
File Renaming:
If Resizer can detect an OCR code in the image, please rename the image in the target directory based on the OCR Code then add a column to the log capturing the original and new name. If

Python Script - Dra...

OCR Detected

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Next Steps:
Add OCR anticipating each image will have a code as follows:

Date	1012018	ddmmyyyy
Type of Paper	AF	2 Character Code
Weight of Paper	80	2 Character Code
Size of Paper	019024	6 Character Code
Collection	Bio	3 Character Code
Series	NR3	3 Character Code
Sequence	01	2 Character Code

1012018	AF	80	019024	Bio	NIR	03	01