Potato Audit Get Started

In Command cd to target directory and run *npm* start

C:\Users\shiyaom>cd Desktop/Shiyao

C:\Users\shiyaom\Desktop\Shiyao>cd potato-audit

C:\Users\shiyaom\Desktop\Shiyao\potato-audit>npm start

cd to src and run python app.py

C:\Users\shiyaom>cd Desktop/Shiyao/potato-audit

C:\Users\shiyaom\Desktop\Shiyao\potato-audit>cd src

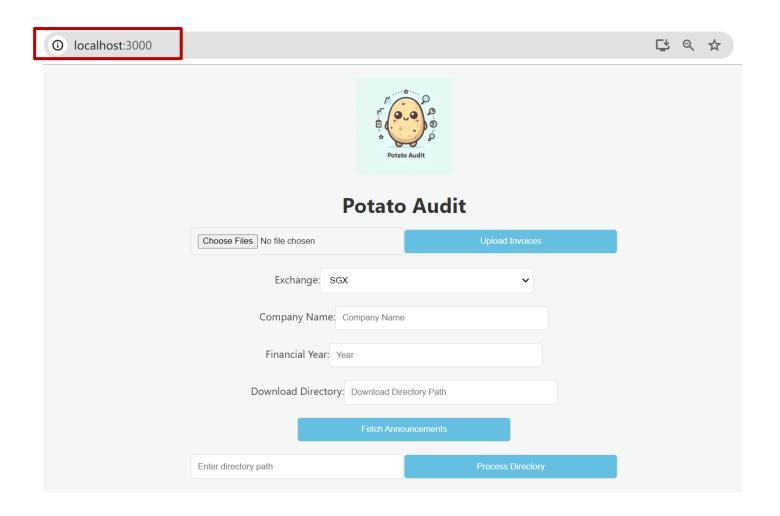
C:\Users\shiyaom\Desktop\Shiyao\potato-audit\src>python app.py

To Do:

Build package for the app so it could be started with a click

Potato Audit Get Started

In Browser (Chrome)
Web UI is running on localhost
3000



To Extract Data from Invoice/Structured Documents

cess

Go to invoice folder

Name Date modified Type INV1298 23/Mar/2024 3:18 AM Adobe Acrobat Docu... (i) localhost:3000 ☑ Q ☆ **Potato Audit** Choose Files No file chosen Exchange: SGX Company Name: Company Name Financial Year: Year Download Directory: Download Directory Path o-audit\Invoice_Test_Samples\TEST_ONLY_LARGE

Search TEST_ONLY_LARGE

٥

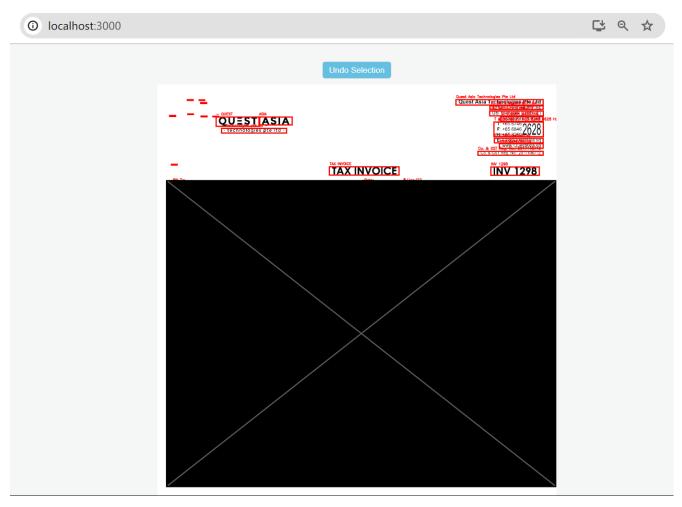
Siz

om\Desktop\Shiyao\potato-audit\Invoice Test Samples\TEST ONLY LARGE

Copy and paste directory path to input field

To Extract Data from Invoice/Structured Documents

Scroll down to find invoice image with annotated *bounding* boxes



To Extract Data from Invoice/Structured Documents

Enlarge the page if needed Click on boxes to select *Field Label* (A) and *Value* (B) pairs that we need

If a *Field Label* is also a *Value* itself, click on it twice

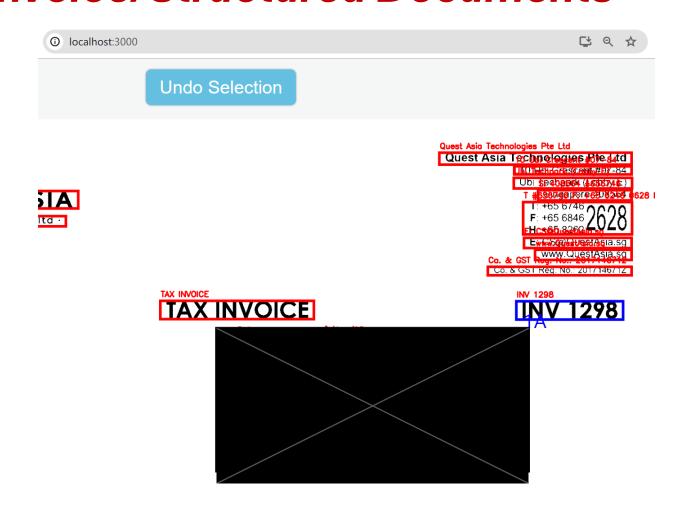
Example:

Field Label: INV

Value: 1298

They are in the same box, so

click on it twice



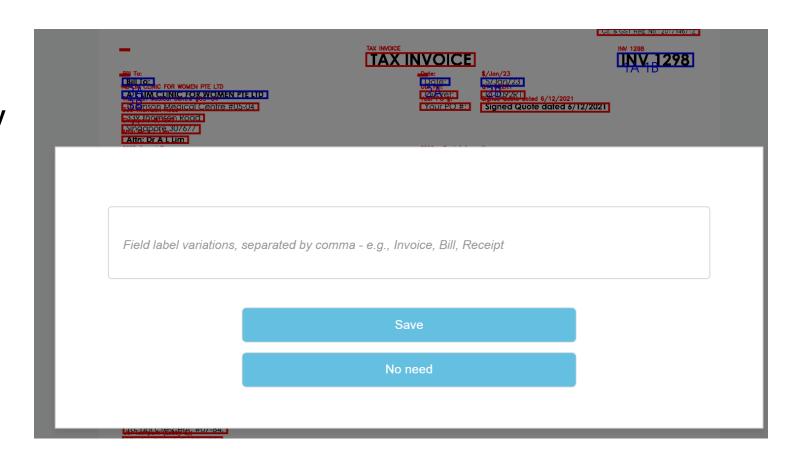
To Extract Data from Invoice/Structured Documents

Once a pair is selected, enter one or more *Field Label* variations, if any, separated by comma

Example:

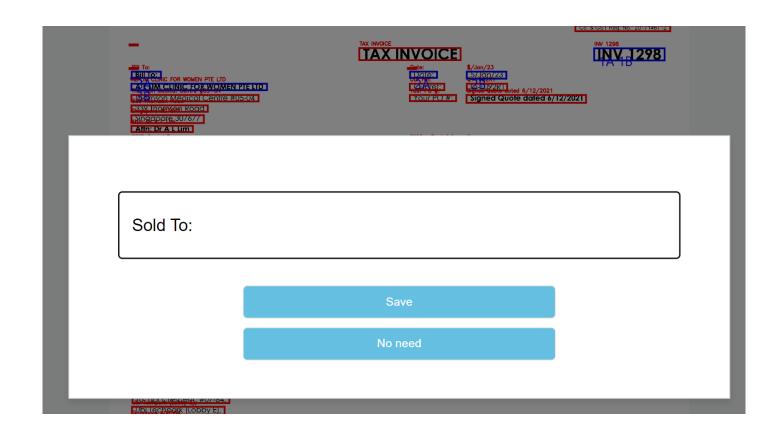
Field Label: Bill To

Possible variations: Sold To



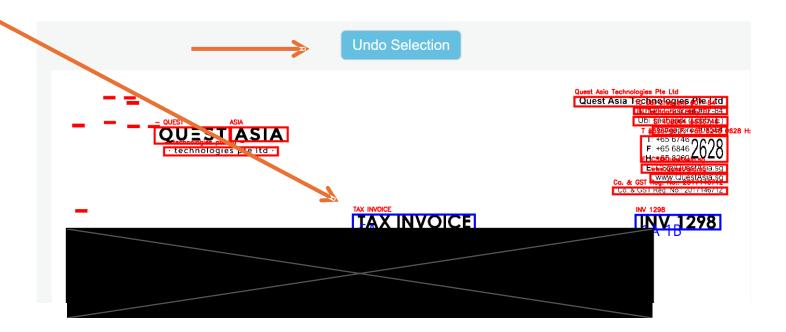
To Extract Data from Invoice/Structured Documents

Click Save if there is any variation; else, No Need

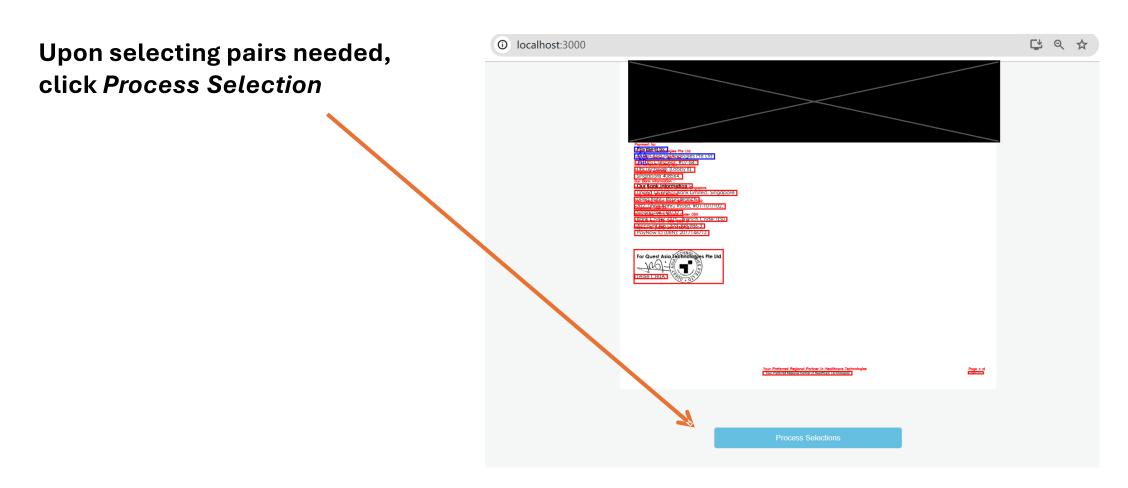


To Extract Data from Invoice/Structured Documents

If mistakenly selected a box, simply click *Undo Selection* to revert the change



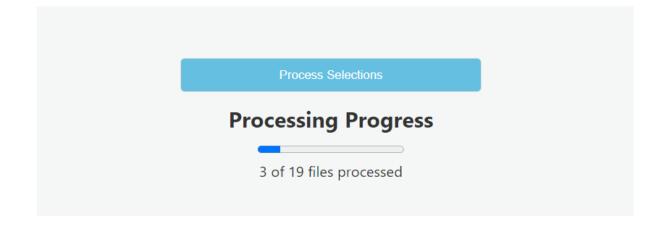
To Extract Data from Invoice/Structured Documents



To Extract Data from Invoice/Structured Documents

It is processing all the files in the specified directory, assuming they have similar format

Progress bar appears to track the status

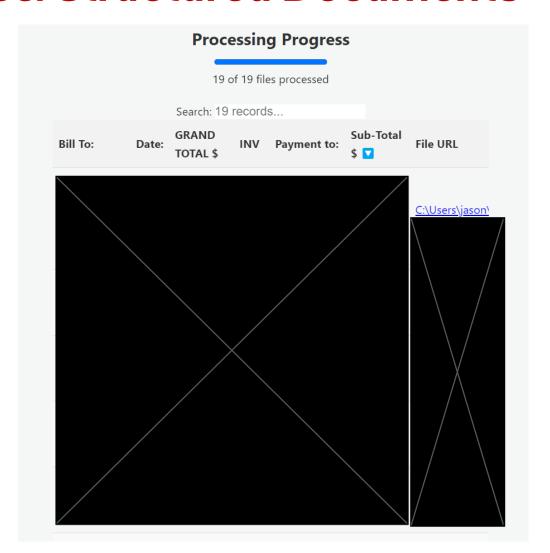


To Extract Data from Invoice/Structured Documents

Once completed, a table appears below with sorting and search functions for preliminary inspection

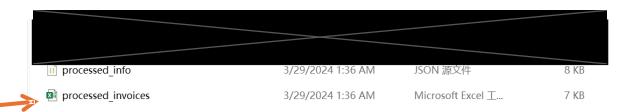
Due to formatting issues, items may not be sorted correctly here

If there is missing or incorrect entries, copy the *File URL* in the last column to File Explorer to check the original file



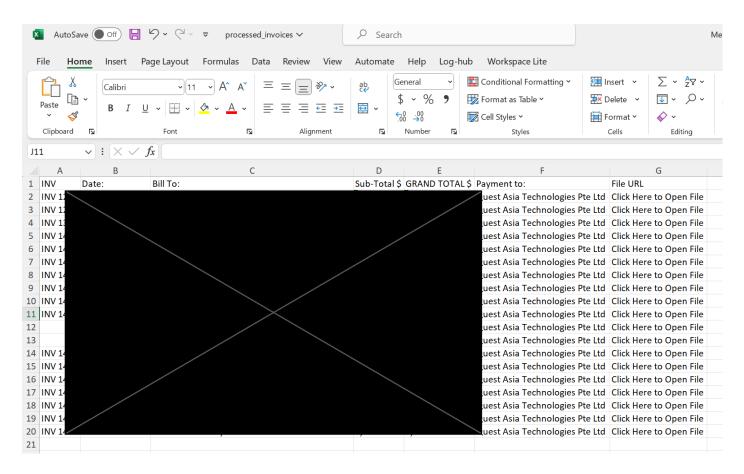
To Extract Data from Invoice/Structured Documents

For better post-processing, an Excel file with extracted data is saved to the same invoice directory named 'processed_invoices'



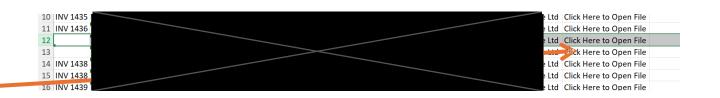
To Extract Data from Invoice/Structured Documents

Open the Excel file to further clean and process extracted data



To Extract Data from Invoice/Structured Documents

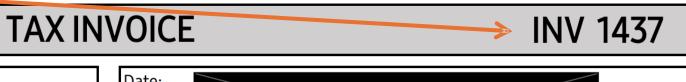
If there is any missing or incorrect data, simply click on the cell of the last column in given row, which directly pulls up the original file

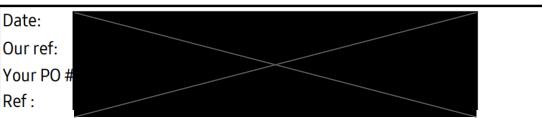


Look for the information in the original file

E: <u>CS@QuestAsia.sg</u> www.QuestAsia.sg

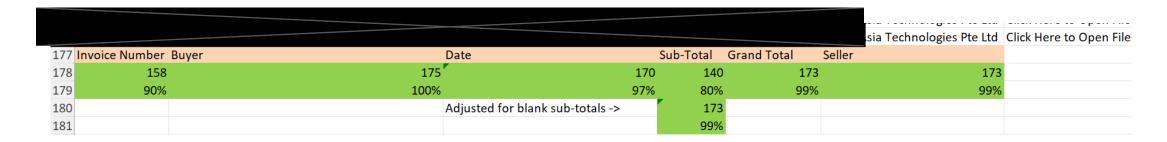
Co. & GST Reg No.: 201714671Z





Performance Metrics

Training dataset of 175 sales invoices



Processing time for training set ~350s Processing time per invoice ~ <2s

To Do:

Test with invoices of other formats/languages

Potential Use Cases with Invoice Data

Vouching and Reconciliation

100% Coverage of Samples

Visualise spending or sales patterns - check for anomaly (unusual volume/amount/date of transaction, duplicate payments, round amount invoices, or payments to unfamiliar vendors)

To Fetch Announcements for Listed Co.

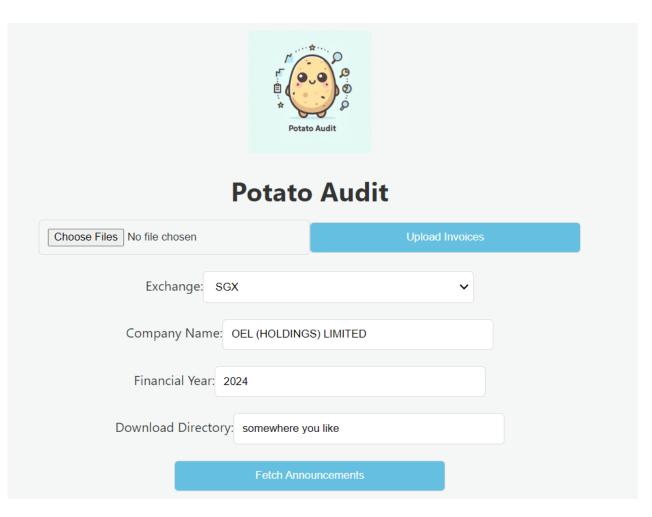
Select the exchange of the company (supports SGX/ASX; may integrate more exchanges if needed)

Enter the name/ID as recorded on the exchange (may consider doing a fuzzy match in the future)

Enter the financial year required

Specify a directory for the files to be downloaded to

Hit Fetch Announcements



To Fetch Announcements for Listed Co.

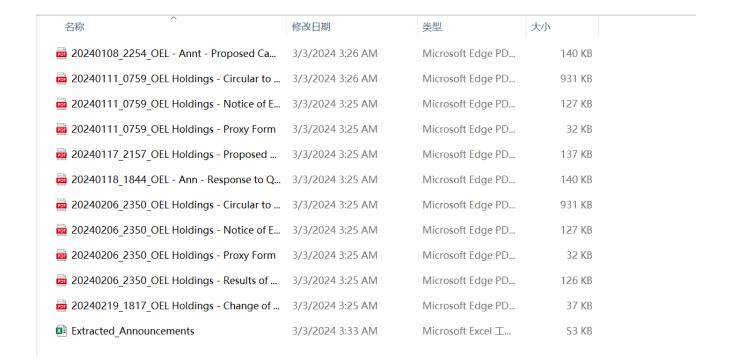
Folder of <name of company>_<financial year> created at specified directory

Auto renaming of files with datetime prepended for easy sorting

Wait for the downloads

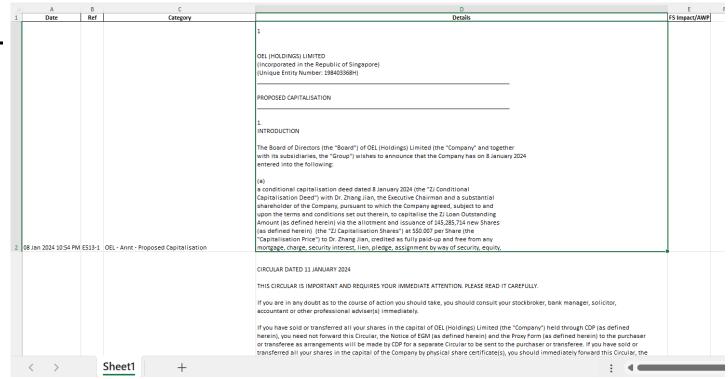
CSV file with extracted content created named 'Extracted_Announcements'

■ OEL_(HOLDINGS)_LIMITED_FY2024 3/22/2024 8:34 PM 文件夹



To Fetch Announcements for Listed Co.

Require some manual reformatting - could be enhanced by passing the content to LLM for a summary if needed



Performance Metrics

Downloading time for 50+ files (or any number of files for an entire year) ~ 2-3min max depending on Internet speed

Text extraction to CSV ~ < 10s

Manual Reformatting ~ < 10min

Note:

Texts extracted are the same as the announcements Each announcement occupies one row (may consider using VBA to reformat things)