

PDS Data Optimization User Manual

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Introduction

This application efficiently identifies and catalogs terms in PDF documents, scanning around 500 publicly available PDF files from the City of Vancouver website for user-defined terms and related terms. It then outputs an Excel file containing detailed information about each occurrence, including document titles, section numbers, and reference paragraphs. Moreover, it proposes updates to documents based on user-defined prompts, processing amendments with suggested updates. Additionally, the application extracts and organizes data from PDF documents for database integration, fetching selected files, and allowing users to define data fields.

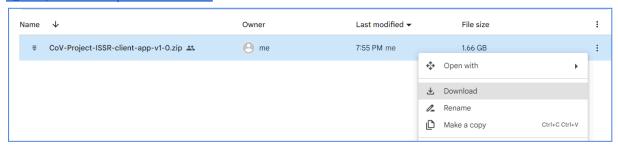
System Requirements

| Operating System | Windows |
|------------------|---|
| Web Browser | Google Chrome, Mozilla Firefox, Microsoft Edge |

Installation

Download

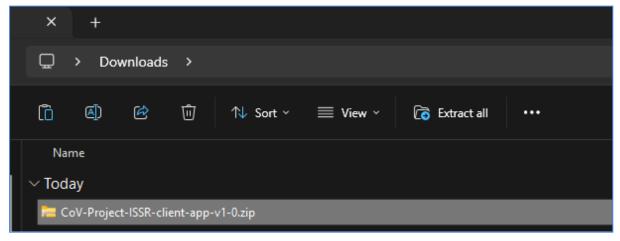
 User can download the application zip file from our Google Drive with following link (may change after 31 May 2024): https://drive.google.com/file/d/1Jg_SKR_NK9GSSHa2GEgOKNTvWXn4 ORkr/view?usp=drive_link



Note: The file is approximately 1.7 GB and may take up to 5-10 minutes to download.

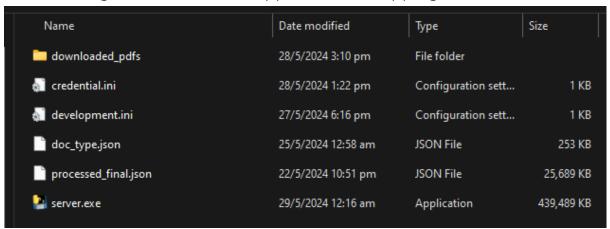
Setup

2. Unzip the CoV-Project-ISSR-client-app-v(x).zip file in any non-restricted folder of the drive C.



Note: Do not choose drive F or H

3. The following list of files should appear after unzipping.



Start Application

- 4. Double-click the server.exe file to start the application. A window will open.
- 5. After 3-5 minutes, the following screen will show. Indicating the application is ready to access.

```
* Serving Flask app 'server'

* Debug mode: on

**WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

* Running on http://127.8.8.1:8808

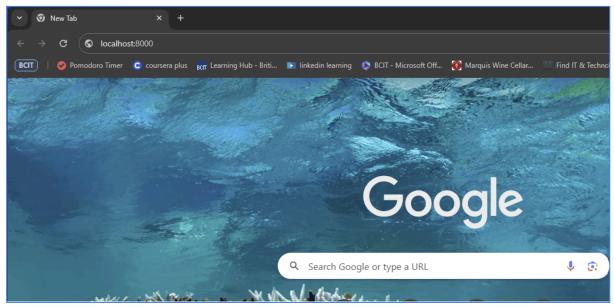
Press CTRL+C to quit

* Restarting with stat

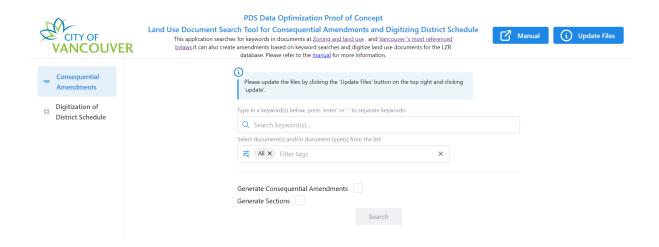
* Debugger is active!

* Debugger PIN: 180-185-503
```

6. From any browser, type localhost:8000 or 127.0.0.1:8000 and press Enter to access the application.



7. When you see the screen below, the application has successfully started.

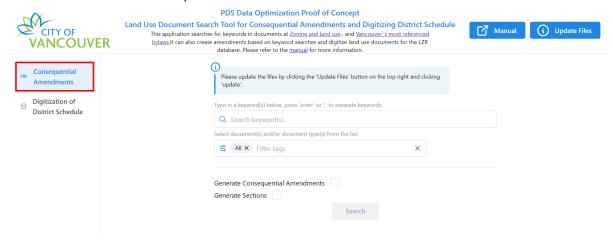


Note: Do not close the black screen application Windows until you decide to exit the application.

Usage

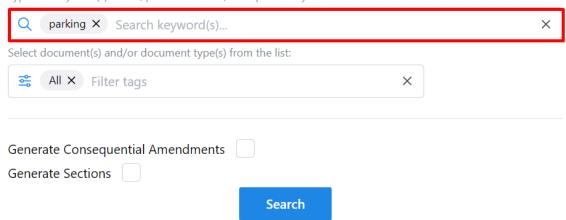
Consequential Amendments

1. Click on "Consequential Amendments" on the left hand navbar.



2. Enter keyword(s) into the search box by pressing "Enter", or separated by a comma.

Type in a keyword(s) below, press 'enter' or ',' to separate keywords:



3. Select filters as needed. The application will search all documents by default.

Type in a keyword(s) below, press 'enter' or ',' to separate keywords:

Q parking × Search keyword(s).... ×

Select document(s) and/or document type(s) from the list:

Categories

Zoning and Development By-law

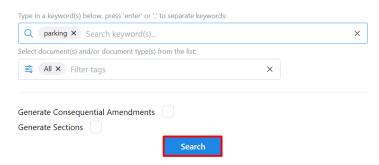
Official development plan by-laws

Policies

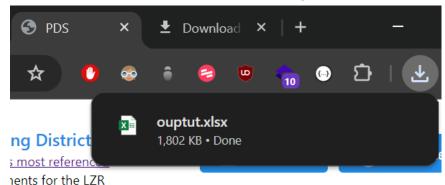
Guidelines

City-owned or leased facility guidelines

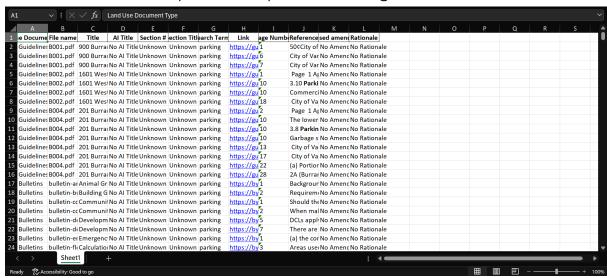
4. Click on "Search".



5. After a moment, an Excel file will be generated.



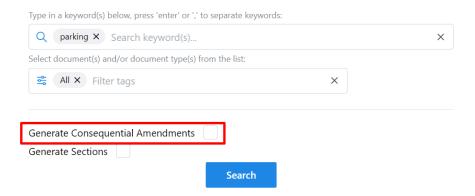
6. Below is the Excel output for the previous configurations.



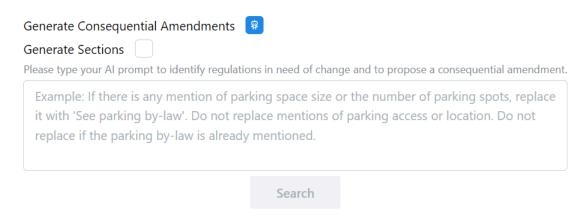
Note: For section number/title, "Unknown" indicates an error occurred, while "Not found" indicates the AI responded, but the section does not exist.

Generate Consequential Amendments

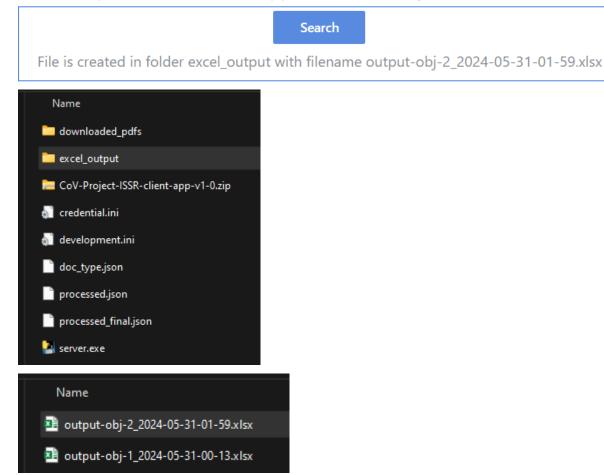
7. To generate amendments, click on the "Generate Consequential Amendments" checkbox.



8. Enter the AI prompt for changes needed. Then, click on "Search".



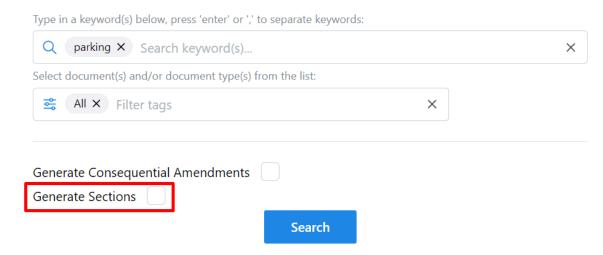
9. After the process is finished. You can find the file inside the "excel_output" folder from the application directory



Note: The output excel files for **Generate Consequential Amendments**, **Generate Sections** and **Digitization of District Schedule** are all stored in excel_output folder

Generate Sections

10. Enable the "Generate Sections" checkbox to generate section numbers/titles.



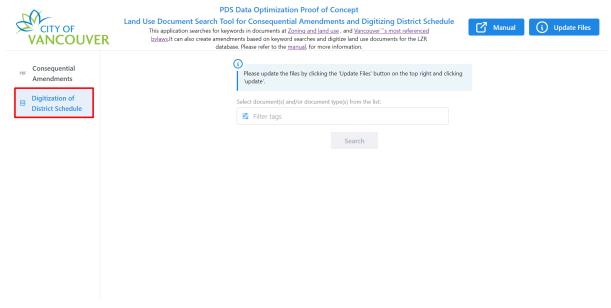
- 11. Click on "Search"
- 12. File will be output to the excel_output folder

Note: For section number/title, there will be a 60 second timeout every 5 search results. For amendments, there will be a 60 second timeout every 20 search results. This is due to the free AI model limitations.

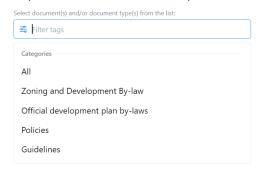
Note: Enabling this checkbox will increase the overall process time.

Digitization of District Schedule

1. Click on "Digitization of District Schedule" on the left hand navbar.

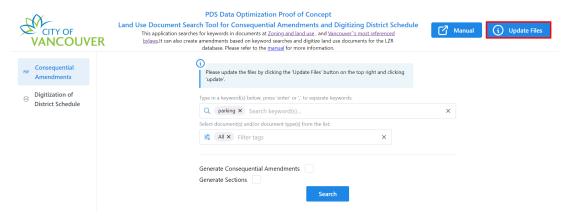


2. Apply filters as necessary, then click on "Search". The Excel file will be output to the excel_output folder when the process finishes.

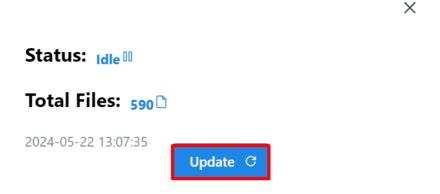


Updating Documents

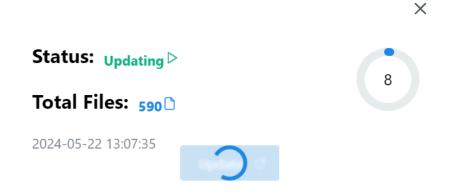
1. To update documents, click on the "Update Files" button in the top right corner.



2. A popup window will appear. Click on "Update".



3. The same popup window will show the update progress.



Note: Updating files may take 5-10 minutes to complete.

Exit Application

1. Click the close button (X) on the top right-handed corner to terminate the program. The application is now completely stopped.

```
* Running on http://127.0.0.1:8000

Press CTRL+C to quit

* Restarting with stat

* Debugger is active!

* Debugger PIN: 180-185-503

[2024-05-29 00:38:06, 263] INFO in server: A request is received for loading home page

127.0.0.1 -- [29/May/2024 00:38:06] "GET / HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:06] "GET / static/cs/ss/c196650da8e3275d.css HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:06] "GET / static/cs/ss/c18ddeed/979992d.css HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:06] "GET / static/cs/ss/c18ddeed/979922d.css HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:06] "GET / static/ctunks/edplose-09042d77d7923481.js HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:06] "GET / static/chunks/edplose-09042d77d7923481.js HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:06] "GET / static/chunks/edplose-09042d77d7923481.js HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:06] "GET / static/chunks/edplose-09042d77d7923481.js HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:06] "GET / static/chunks/edplose-09042d77d7923481.js HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:06] "GET / static/chunks/edplose-09042d77d7923481.js HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:07] "GET / static/chunks/edplose-09042d7d7923481.js HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:07] "GET / static/chunks/edplose-09042d7d7923481.js HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:07] "GET / static/chunks/edplose-09042d7d7923481.js HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:07] "GET / static/chunks/edplose-09042d7d7d7923481.js HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:07] "GET / static/chunks/edplose-09042d7d7d7923481.js HTTP/1.1" 200 -

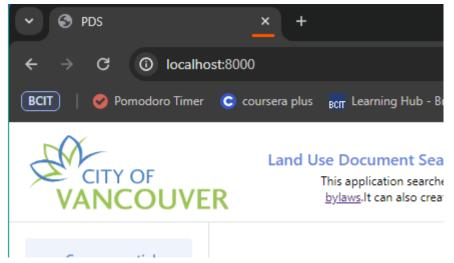
127.0.0.1 -- [29/May/2024 00:38:07] "GET / static/chunks/edplose-09042d7d7d7923481.js HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:07] "GET / static/chunks/edplose-09042d7d7d7923481.js HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:07] "GET / static/chunks/edplose-09042d7d7d7923481.js HTTP/1.1" 200 -

127.0.0.1 -- [29/May/2024 00:38:07] "GET / static/ch
```

2. (Optional) Close the webpage on your Browser by clicking the (X) on the tab of the page.



Restart application

- 1. Follow step 1 of **Exit application** to terminate the program
- 2. From the application folder, double-click the server.exe file to start the application again. A window will open.
- 3. After 3-5 minutes, the application screen will show. Indicating the application is ready to access.
- 4. Reload the webpage on your Browser (or type the link **localhost:8000** if the page is already closed)
- 5. The restart process is finished and ready to use

Note: You can restart the application also if you find any search process is waiting too long or non-responsive

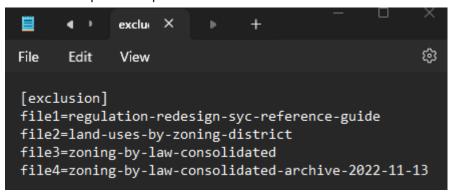
Exclude Downloaded PDF Files

You can exclude any files to prevent them from showing in search result

1. From the application folder, double click exclude_file.ini (If asking what application to open, select 'notepad')



2. Notepad is opened. Certain excluded files are showing in the editor



3. To exclude more files, add the next PDF file name without extension in the format in "file{next number in sequence}={file name}

For example, if we want to exclude file called policy-plan-broadway.pdf, we should add the text: **file5=policy-plan-broadway** in the next line

```
[exclusion]
file1=regulation-redesign-syc-reference-guide
file2=land-uses-by-zoning-district
file3=zoning-by-law-consolidated
file4=zoning-by-law-consolidated-archive-2022-11-13
file5=policy-plan-broadway
```

- 4. Save the file and close Notepad
- 5. follow the steps in **Restart the application** to restart the application again
- 6. The file will not show in any search box

Note: To verify the excluded files, you can go to the application terminal (The black screen Window) and find the following text starting with "Excluded files:)

```
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI

* Running on <a href="http://127.0.0.1:8000">http://127.0.0.1:8000</a>

Press CTRL+C to quit

* Restarting with stat

4 of files is excluded from the list

Excluded files: ['regulation-redesign-syc-reference-guide.pdf', 'land-uses-by-zoning-district.pdf', 'zo

* Debugger is active!

* Debugger PIN: 129-119-789
```