



PDS Data Optimization User Manual

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May. 30th, 2024

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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.

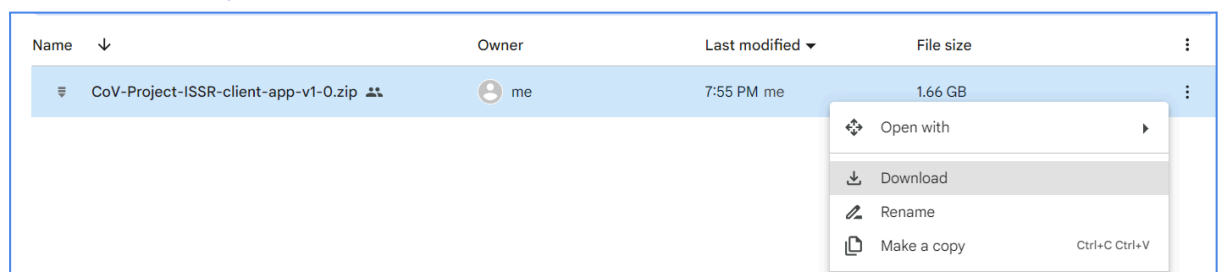
System Requirements

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

Installation

Download

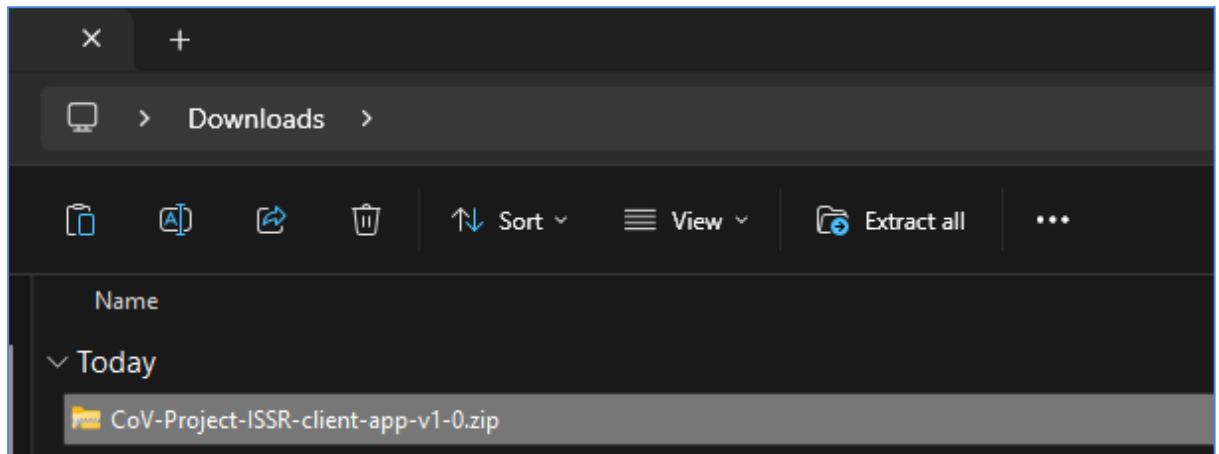
1. User can download the application zip file from our Google Drive with following link (may change after 31 May 2024):
https://drive.google.com/file/d/1Jg_SKR_NK9GSSHa2GEgOKNTvWXn4QRkr/view?usp=drive_link



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.



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

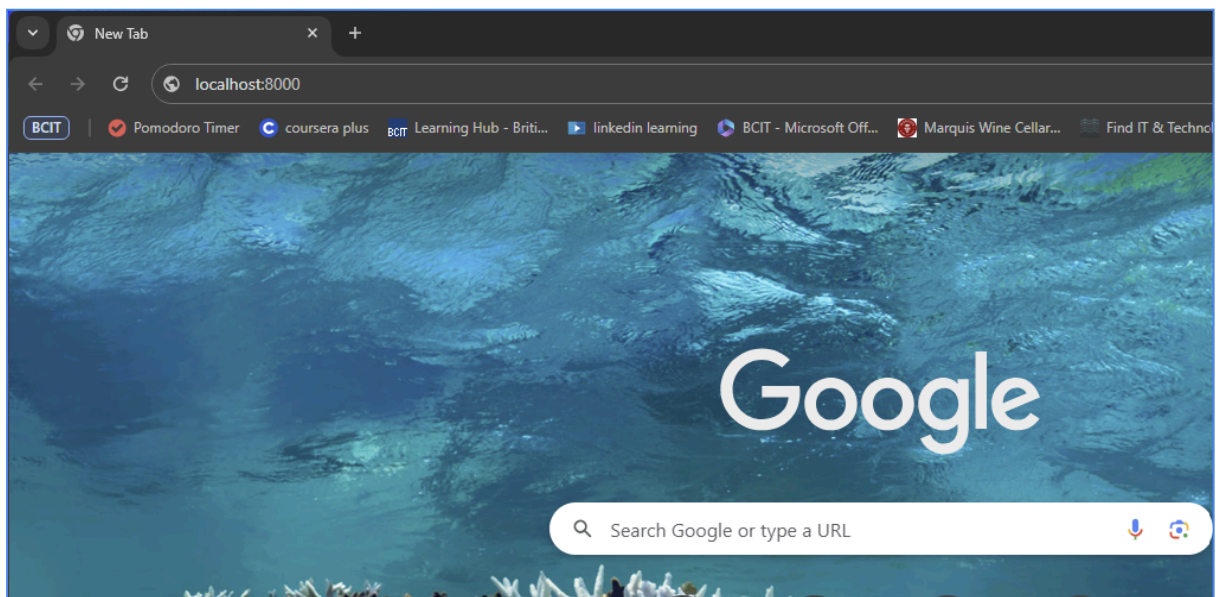
Name	Date modified	Type	Size
downloaded_pdfs	28/5/2024 3:10 pm	File folder	
credential.ini	28/5/2024 1:22 pm	Configuration sett...	1 KB
development.ini	27/5/2024 6:16 pm	Configuration sett...	1 KB
doc_type.json	25/5/2024 12:58 am	JSON File	253 KB
processed_final.json	22/5/2024 10:51 pm	JSON File	25,689 KB
server.exe	29/5/2024 12:16 am	Application	439,489 KB

Start Application

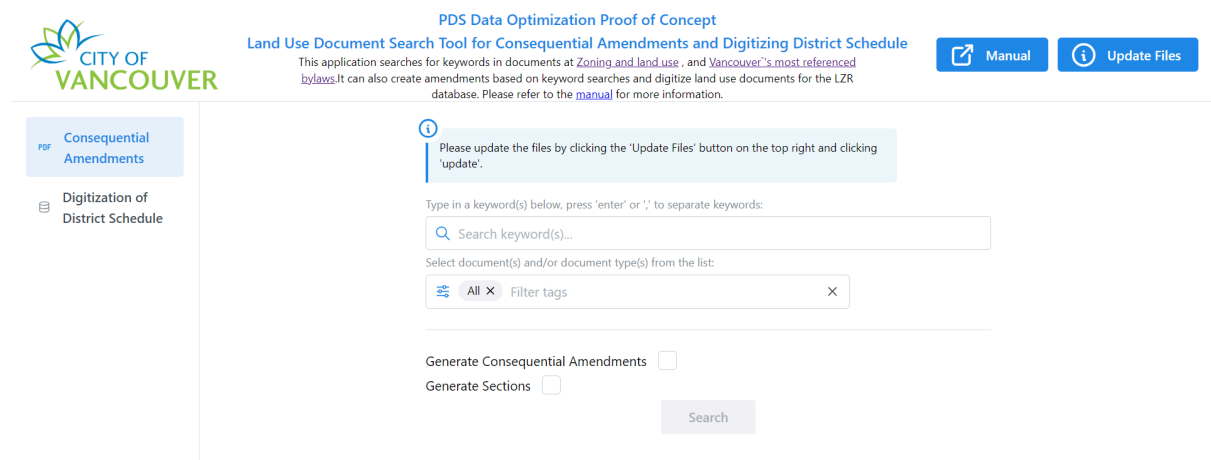
4. Double-click the server.exe file to start the application. A window will open.
5. After 3-5 minutes, the following screen will show. Indicating the application is ready to access.

```
C:\Users\kevin\Downloads\te: X + v
* 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://127.0.0.1:8000
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.



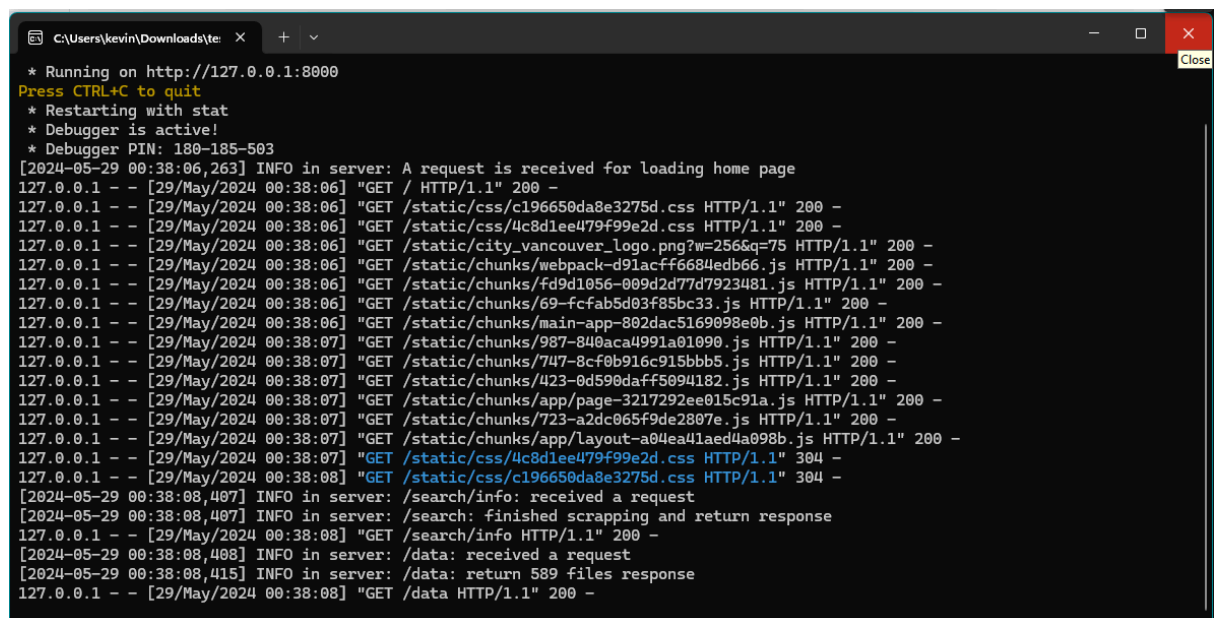
- When you see the screen below, the application has successfully started.



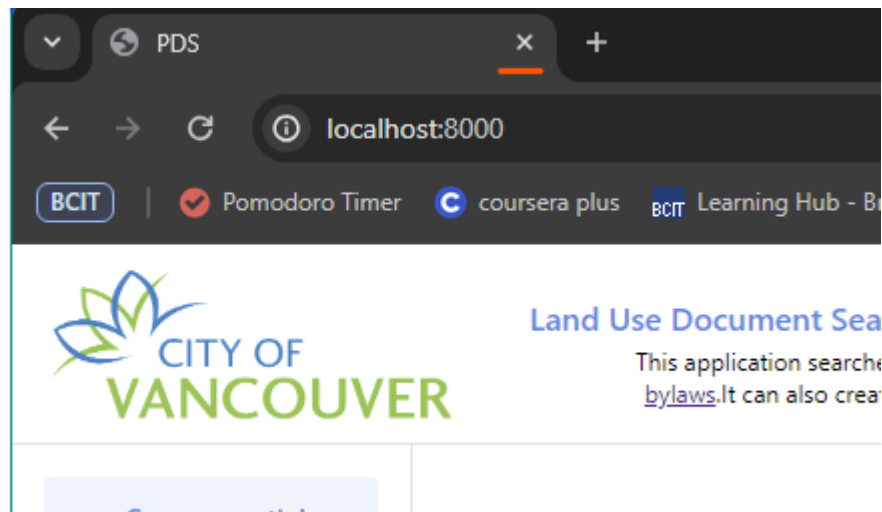
Note: Do not close the black screen application Windows until you decide to exit the application.

Exit Application

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



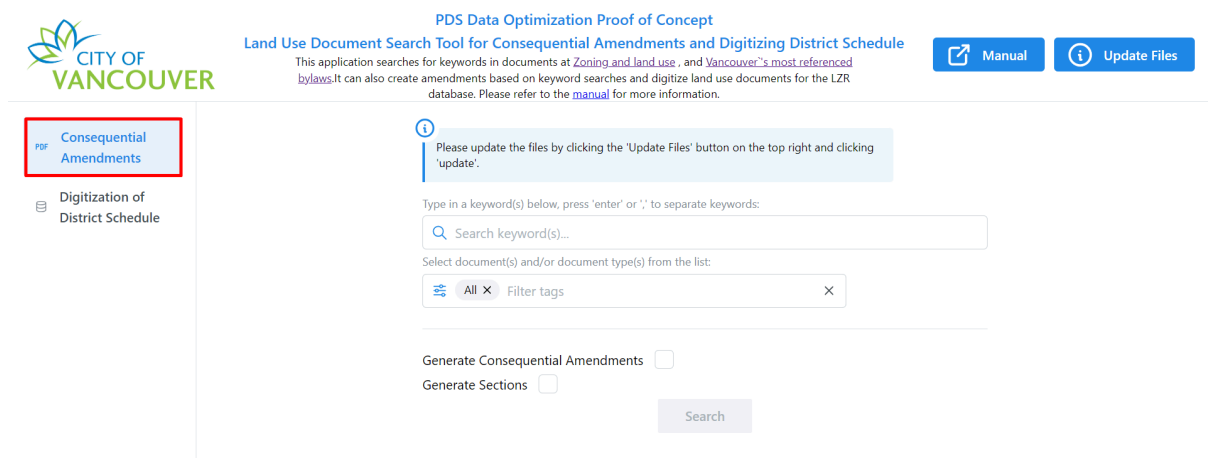
- (Optional) Close the webpage on your Browser by clicking the (X) on the tab of the page.



Usage

Consequential Amendments

- 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:

parking X Search keyword(s)...

X

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

All X Filter tags

X

Generate Consequential Amendments ☐

Generate Sections ☐

Search

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:

parking X Search keyword(s)...

X

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

All X Filter tags

X

Categories

Zoning and Development By-law
Official development plan by-laws
Policies
Guidelines
City-owned or leased facility guidelines

4. Click on “Search”.

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

parking X Search keyword(s)...

X

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

All X Filter tags

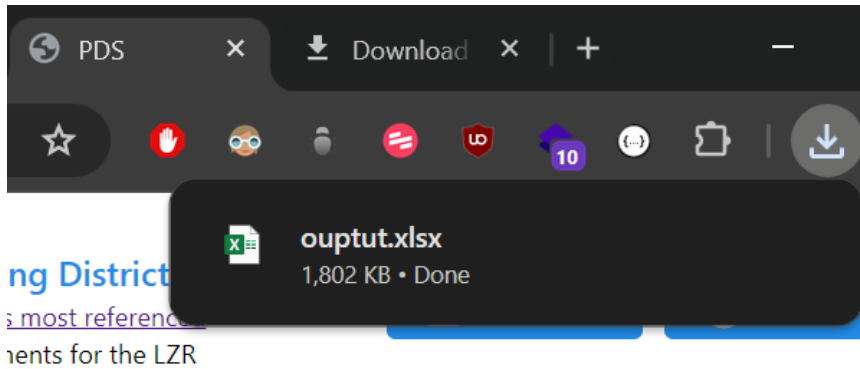
X

Generate Consequential Amendments ☐

Generate Sections ☐

Search

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



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

A screenshot of an Excel spreadsheet titled 'Land Use Document Type'. The spreadsheet contains a table with the following columns: Document, File name, Title, AI Title, Section #, Section Title, Search Term, Link, Page Number, Reference, Used, Amendment, and Rationale. The table lists various documents and their associated information, including file names like 'Guideline: B001.pdf' and 'Guideline: B002.pdf', and titles like '900 Burrar No AI Title Unknown'. The 'Section #' column contains 'Unknown' for most entries. The 'Link' column contains URLs like 'https://gu1' and 'https://gu2'. The 'Page Number' column contains values like '1', '2', '3', '4', '5', '6', '7', '8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20', '21', '22', '23', '24'. The 'Reference' column contains values like 'City of No Amenc No Rationale', 'City of Var No Amenc No Rationale', 'Page 1 A No Amenc No Rationale', '3.10 Parki No Amenc No Rationale', 'Commerci No Amenc No Rationale', 'City of Va No Amenc No Rationale', 'Page 1 A No Amenc No Rationale', 'The lower No Amenc No Rationale', '3.8 Parkin No Amenc No Rationale', 'Garbage s No Amenc No Rationale', 'City of Va No Amenc No Rationale', 'City of Va No Amenc No Rationale', '(a) Portior No Amenc No Rationale', '2A (Burrar No Amenc No Rationale', 'Backgrou No Amenc No Rationale', 'Requirem No Amenc No Rationale', 'Should the No Amenc No Rationale', 'When mal No Amenc No Rationale', 'DCLs appl No Amenc No Rationale', 'There are No Amenc No Rationale', '(a) the cor No Amenc No Rationale', and 'Areas usei No Amenc No Rationale'. The 'Used' column is empty for all entries. The 'Amendment' column is empty for all entries. The 'Rationale' column is empty for all entries. The spreadsheet is titled 'Sheet1' and has a status bar at the bottom that says 'Ready' and 'Accessibility: Good to go'.

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

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

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

Search keyword(s)...

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

Filter tags

☒ Generate Consequential Amendments

☐ Generate Sections

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

Generate Consequential Amendments ☒

Generate Sections ☐

Please type your AI prompt to identify regulations in need of change and to propose a consequential amendment.

Example: If there is any mention of parking space size or the number of parking spots, replace it with 'See parking by-law'. Do not replace mentions of parking access or location. Do not replace if the parking by-law is already mentioned.

Search

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.

9. Enable the “Generate Sections” checkbox to generate section numbers/titles.

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

parking X Search keyword(s)... X

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

All X Filter tags X

Generate Consequential Amendments ☐

Generate Sections ☐

Search

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.

CITY OF VANCOUVER

PDS Data Optimization Proof of Concept

Land Use Document Search Tool for Consequential Amendments and Digitizing District Schedule

This application searches for keywords in documents at [Zoning and Land Use](#), and [Vancouver's most referenced bylaws](#). It can also create amendments based on keyword searches and digitize land use documents for the LZR database. Please refer to the [manual](#) for more information.

[Manual](#) [Update Files](#)

Consequential Amendments

Digitization of District Schedule

Please update the files by clicking the 'Update Files' button on the top right and clicking 'update'.

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

Filter tags

Search

2. Apply filters as necessary, then click on “Search”. The Excel file will download automatically when the process finishes.

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

Filter tags

Categories

- All
- Zoning and Development By-law
- Official development plan by-laws
- Policies
- Guidelines

Updating Documents

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

CITY OF VANCOUVER

PDS Data Optimization Proof of Concept

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[Manual](#) [Update Files](#)

Consequential Amendments

Digitization of District Schedule

Please update the files by clicking the 'Update Files' button on the top right and clicking 'update'.

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

parking Search keyword(s)...

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

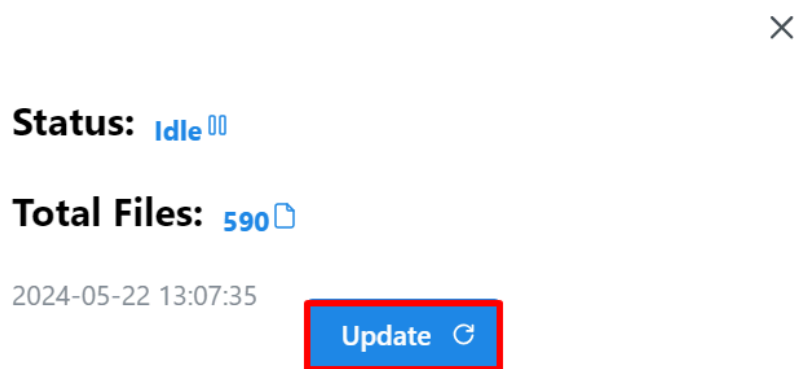
All Filter tags

Generate Consequential Amendments ☐

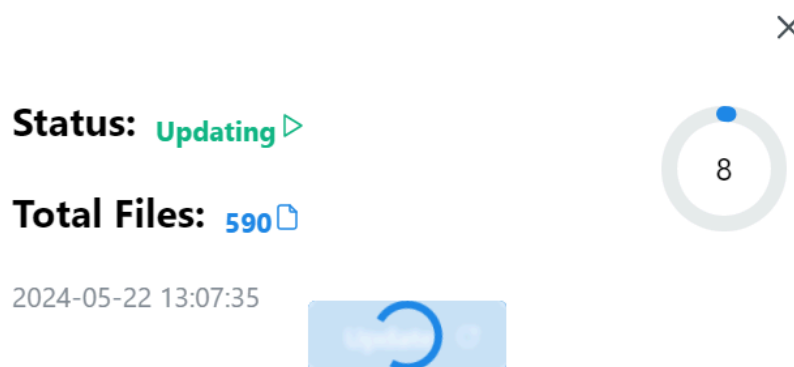
Generate Sections ☐

Search

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.