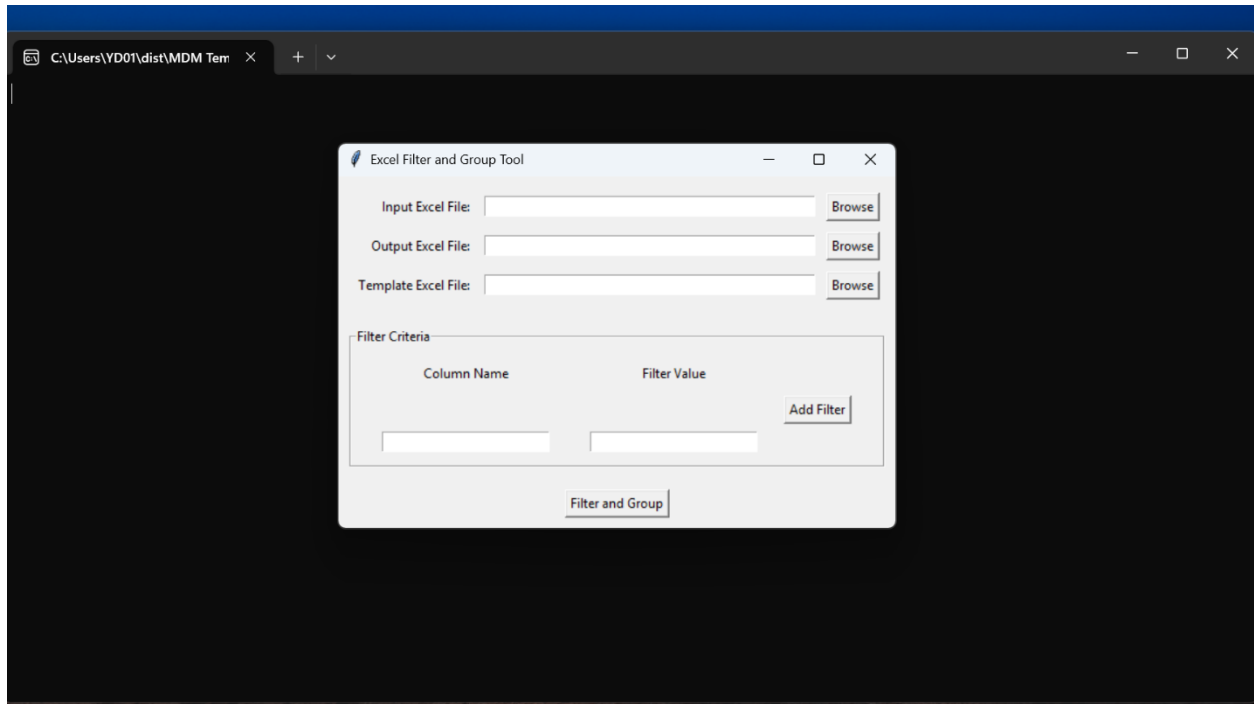


excel_gen_filter_gen_1.py



Features

- **Load Excel Data:** Dynamically identifies the header row.
- **Filter Data:** Apply filters based on user-defined criteria.
- **Group Data:** Saves filtered results into a predefined template.
- **Progress Tracking:** Displays a progress bar while processing.

User Guide

Step 1: Select Input, Output, and Template Files

1. **Input File:** Click **Browse** and select the Excel file (.xlsx) containing raw data.
2. **Output File:** Click **Browse** to specify where to save the filtered results.
3. **Template File:** Click **Browse** and select the Excel template for structured output.

Step 2: Set Filter Criteria

- Enter column names and corresponding filter values.
- Click **Add Filter** to apply multiple conditions.

- Avoid duplicate column entries.

Step 3: Process Data

Click **Filter and Group** to start filtering and grouping.

- A loading window with a progress bar appears during execution.
- A success message confirms completion.

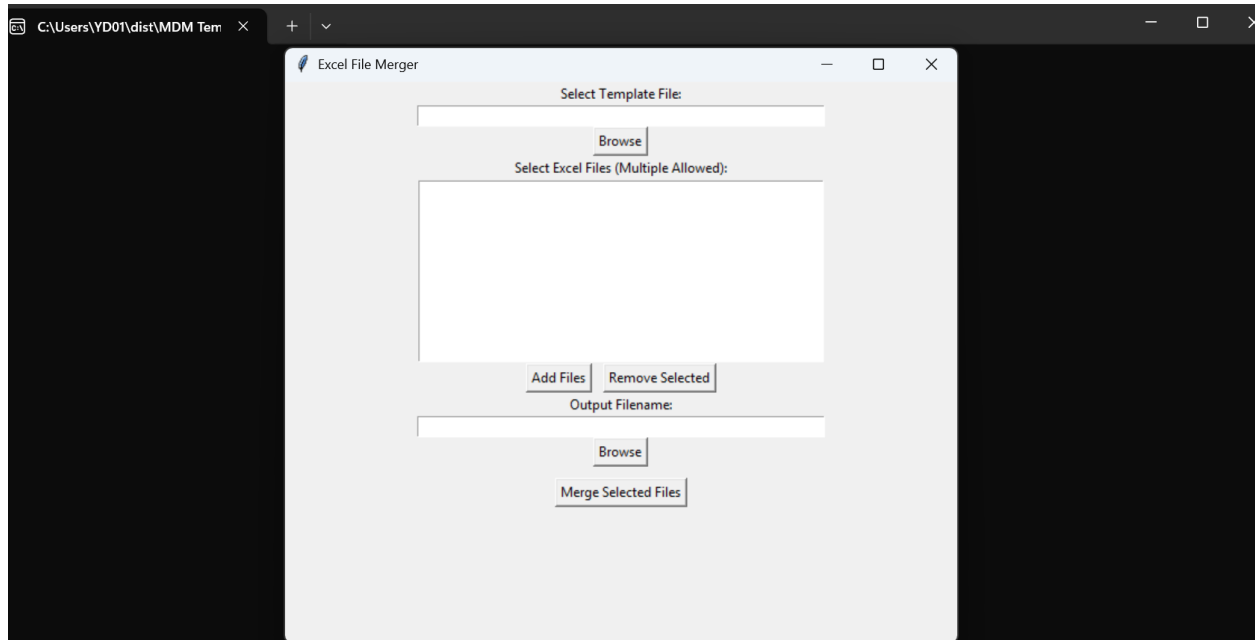
Step 4: Run Merge Script (Optional)

Click **Run Merge Script** to execute `merge.py` if needed.

Notes

- Ensure the column names match the dataset headers.
- The filtered file is saved with a filename based on applied filters.
- The program prevents duplicate filter criteria.

Modular Usage Guide for Excel File Merger



Overview

This tool allows users to merge multiple Excel files into a single sheet while preserving formatting. The program uses a template file to maintain consistency in structure.

Features

- Select a template file.
- Add multiple Excel files to merge.
- Remove selected files from the list.
- Choose an output filename.
- Merge the selected files into the template while maintaining formatting.

How to Use

1. Launch the Application

Run the Python script to open the graphical user interface (GUI).

2. Select a Template File

Click **Browse** to choose an Excel template. This template will define the structure of the merged file.

3. Add Excel Files

Click **Add Files** to select file or Ctrl + Click to select multiple Excel files that need to be merged.

4. Remove Unwanted Files

Select files from the list and click **Remove Selected** to exclude them from the merging process.

5. Choose an Output File

Click **Browse** under **Output Filename** to specify where the merged Excel file will be saved and create the file name to your preference.

6. Merge Files

Click **Merge Selected Files** to start merging. The process will run in a separate thread to prevent UI freezing. A progress pop-up will appear until completion.

Errors

Data didn't Filter

If some Excel files **fail to recognize the header row**, the problem could be due to one or more of the following reasons:

1. Too Many Empty Cells in the Expected Header Row

Problem:

- The function **requires at least 50% of the values in a row to be non-empty** to be considered a header.
- If the actual header row has many empty cells (e.g., some columns have missing values), it **may not pass the threshold**.

Example (Issue Case)

Row	Column 1	Column 2	Column 3	Column 4
0	NaN	NaN	NaN	NaN
1	Name	Age	NaN	City
2	Alice	25	Female	NY

- Here, Row 1 has **only 2 out of 4** cells filled → **50% exactly**.
- If any column has an empty value, it might **fail the threshold check**.

