

Instruction for Price Matching System

คู่มือการใช้งานระบบ Price Matching

REVISION 1.1 EN.



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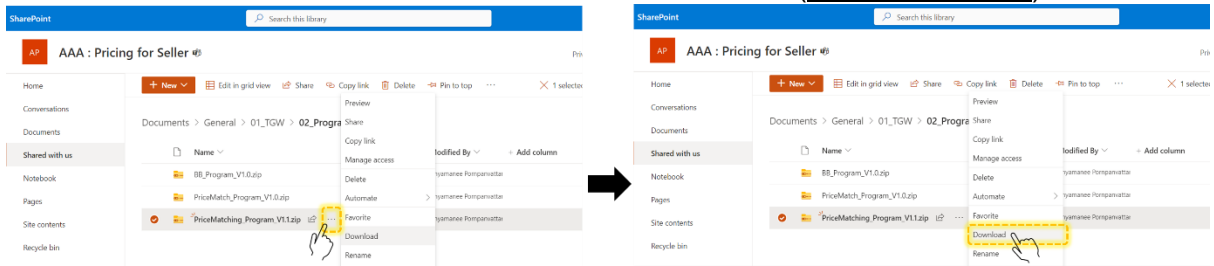
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1. Purpose

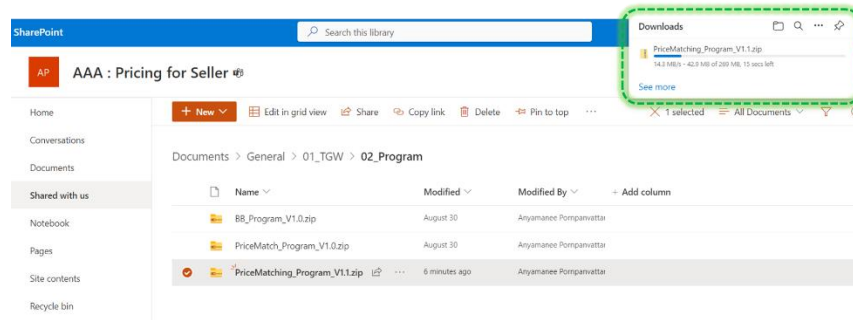
This guide demonstrates how to utilize the Price Matching program to adjust prices based on specific criteria from a master database, as well as how to match prices using data sourced from websites.

2. Pre-requisites

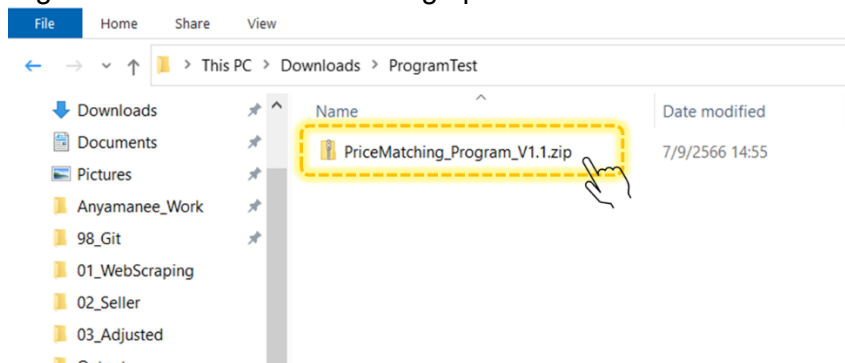
- Click on the link to download the latest version of the ZIP file ([Link to Download](#)).



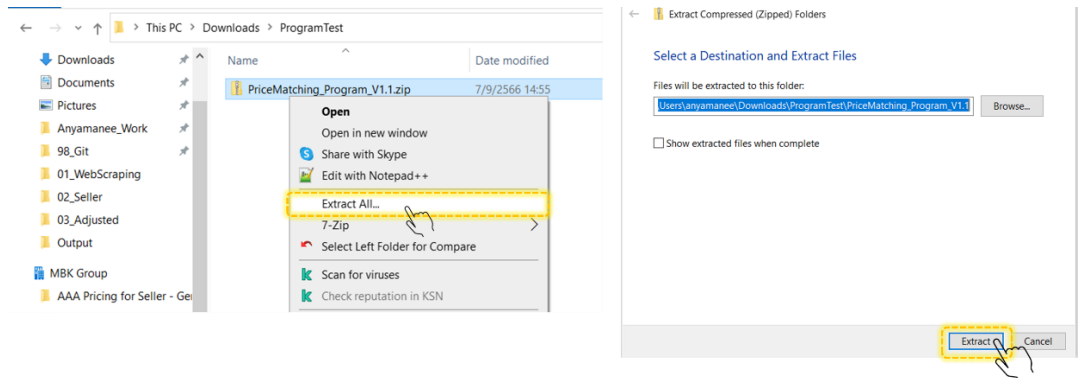
- Wait for the download to complete before proceeding.



- Move the ZIP file to your selected directory and unpack its contents as steps below.
 - Right-click on the ZIP file to bring up the context menu.



- Select “Extract All.” on the context menu and then select “Extract”.



- When extraction is complete, will see an unzipped folder, as depicted in the accompanying image.

	Name	Date modified	Type	Size
✓	PriceMatching_Program_V1.1	7/9/2566 15:23	File folder	
	PriceMatching_Program_V1.1.zip	7/9/2566 14:55	Compressed (zipp...	275,199 KB

3. Program Introduction

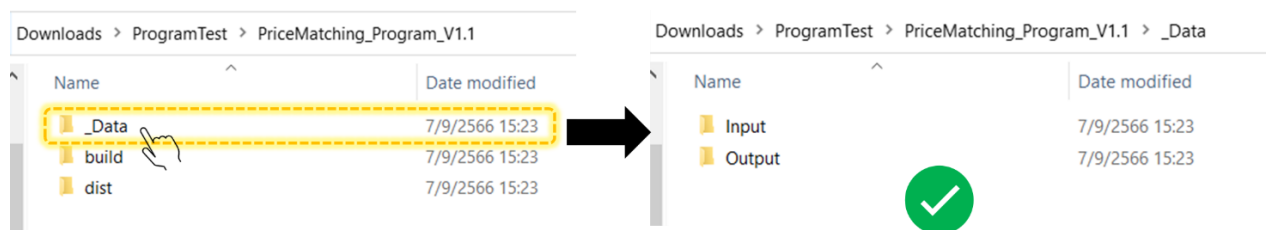
This is a price-matching application in an EXE file that matches market prices. The price information was obtained through web scraping.



PriceMatching_Program.exe

3.1 Data Checking

Before beginning the Price Matching Program, ensure that your data is properly arranged in the relevant input and output folders. This will ensure that your data is processed and exported smoothly.







3.1.1 Input folder

Should have included 4 folders, within the 'Input' folder as shown in the table.

Folder Name	Details
01_Database	This folder is the primary repository for 3 raw data files. DMS Data File: Contains data sourced directly from the DMS System. This file often has dealership-specific details about vehicles. Website Data File: Data scraped from various online marketplaces or official websites. This provides a snapshot of market prices. Redbook Database File: Comprehensive database from Redbook, detailing vehicle specifications and historical prices
02_Seller	Information pertaining to individual sellers or dealers. Inventory Data: List of vehicles currently available for sale by the seller, with associated details like price, condition, etc.
03_Adjusted	Discount and Add-ons List: A detailing any current promotions, discounts, or add-ons that can impact the final adjusted price.
04_Master	A centralized folder containing master data that are crucial for the program's price matching algorithm.

Double-check to ensure all the necessary files are present. Remember, the program will use this data for the price-matching process.

Name	Date modified
 01_Database	31/8/2566 12:16
 02_Seller	4/9/2566 17:05
 03_Adjusted	6/9/2566 14:51
 04_Master	30/8/2566 9:36

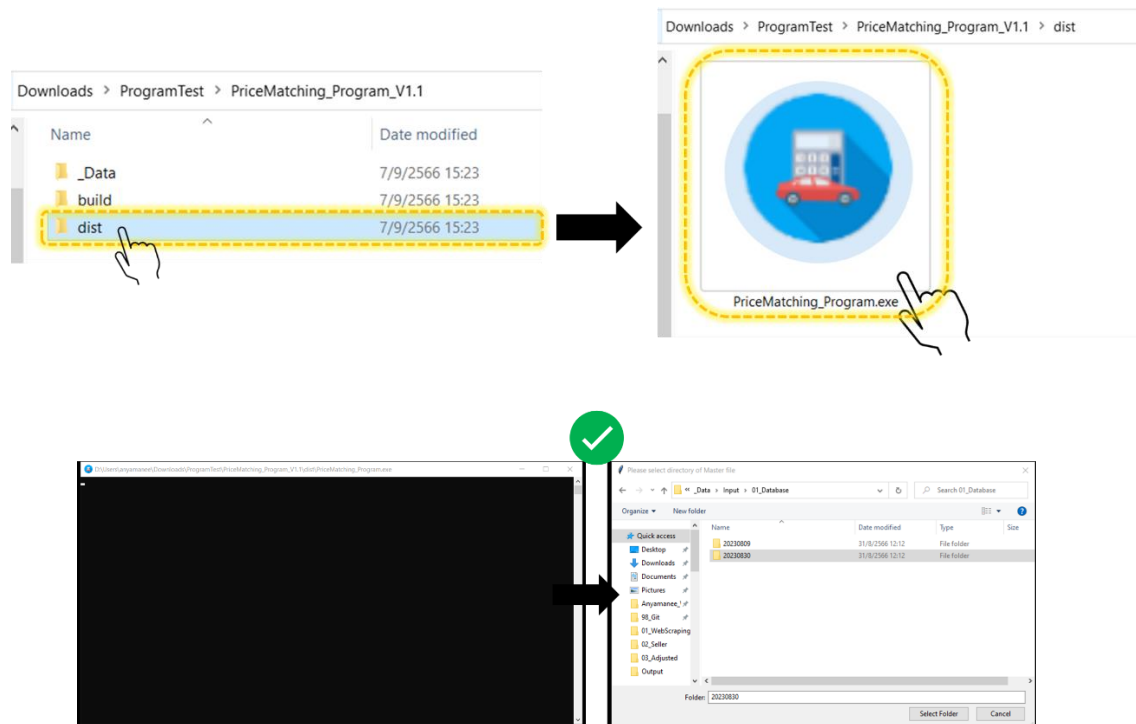
3.1.2 Output folder

The Output folder is specifically designed to store the results generated by the Price Matching Program. After the program processes the input data, matched or adjusted prices, along with any supplementary details or logs, are saved in this folder. This structure ensures a clear demarcation between raw input data and processed outputs.

4. Instructions

4.1 Starting Program

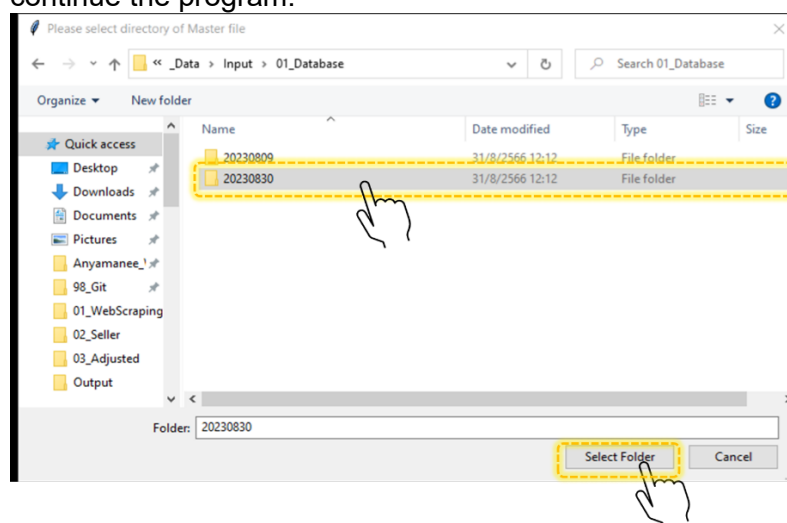
- Double-click the "PriceMatching_Program.exe" file in the "dist" folder. The program will start after this step. As it loads, wait a few minutes to show the black window and directory window.



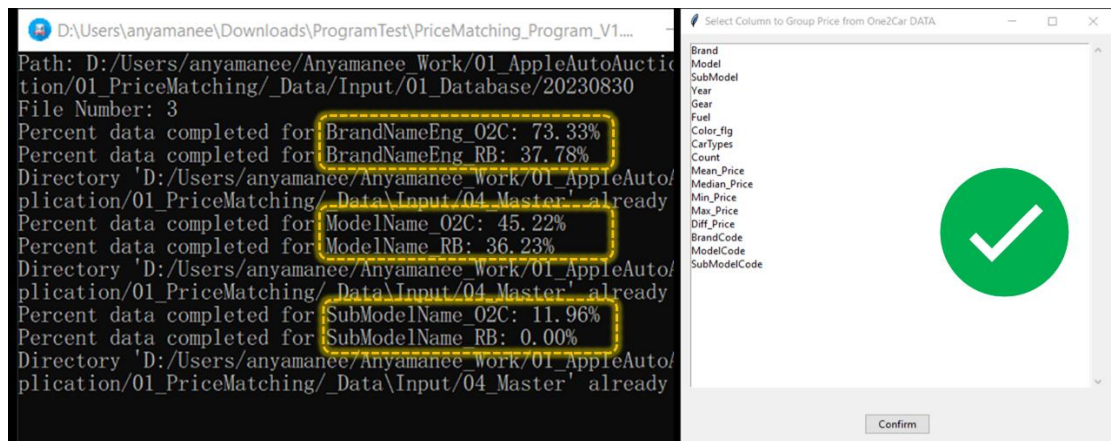
4.2 Input File Selection

4.2.1 Database File

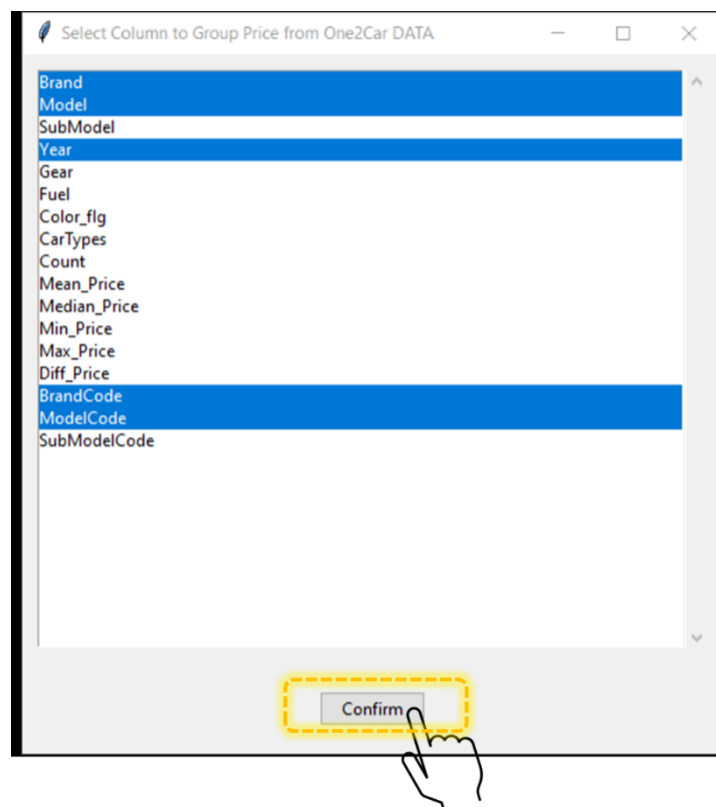
- select the path: "\\PriceMatching_Program_V1.1_Data\\Input\\01_Database\\(date latest folder)" from the browser window, and then click "Select Folder" to continue the program.



- If the chosen folder is accurate, a black box indicating the percentage of data that matches Brand, Model, and SubModel will show, along with a column selection window.



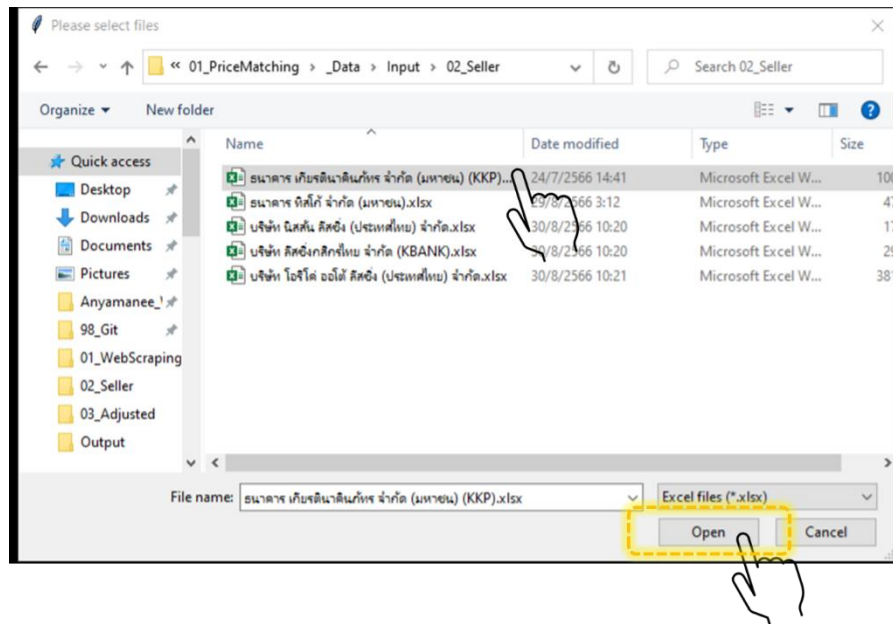
- Select multiple column name(s) that want to use for grouping the pricing Website's data.
- Click the "Confirm" button after making your selection, review it to ensure you've chosen the correct columns.



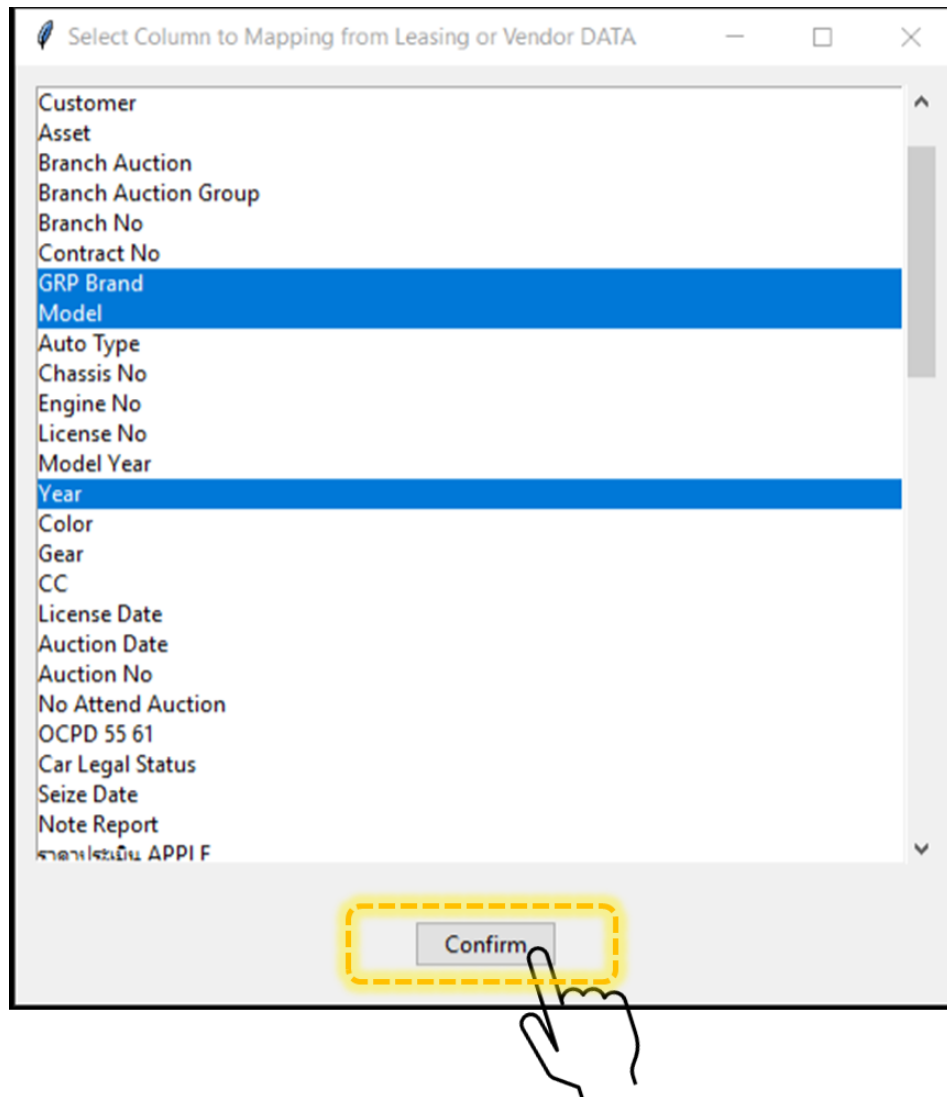
4.2.2 Seller File

The Seller File contains critical data provided by various sellers. This file includes price listings, product details, and other related information that aids in the price matching process. To ensure the accuracy of your price matching results, it's essential to choose the correct Seller File. Below is a step-by-step guide on how to do so.

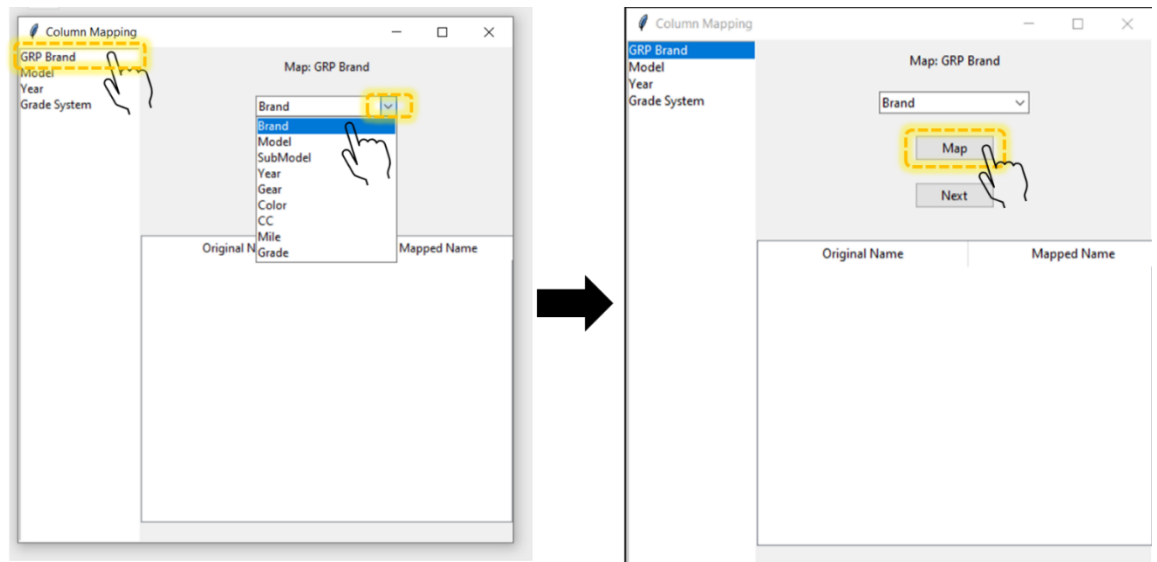
- Select seller file, and click on the “Open” button, usually found at the bottom right of the window. For example, using seller from “เกียรตินาคินภัทร” file.



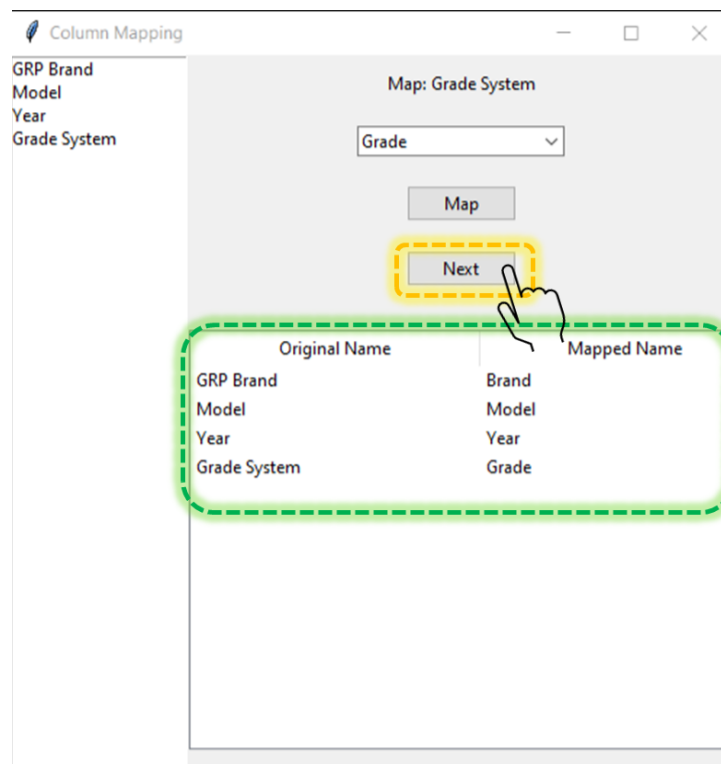
- Select multiple column name(s) that want to change column name to mapping with DMS file. Then, click the "Confirm" button after making your selection, review it to ensure you've chosen the correct columns.



- Map the column name(s) from the original column name, and then click on the right-side dropdown or field. A list of common column names will be displayed.
- Choose a standard column name that corresponds to the original column's intent and content. For example, if the original column is labeled "GRP_Brand," it may equate to the conventional label "Brand".

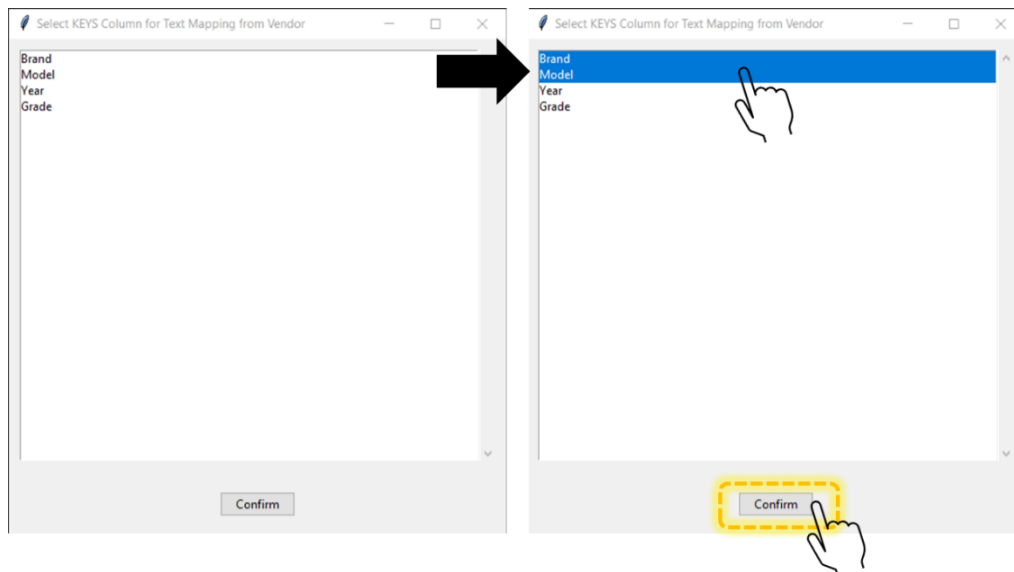


- To continue, click "Next" when the mapping is finished.

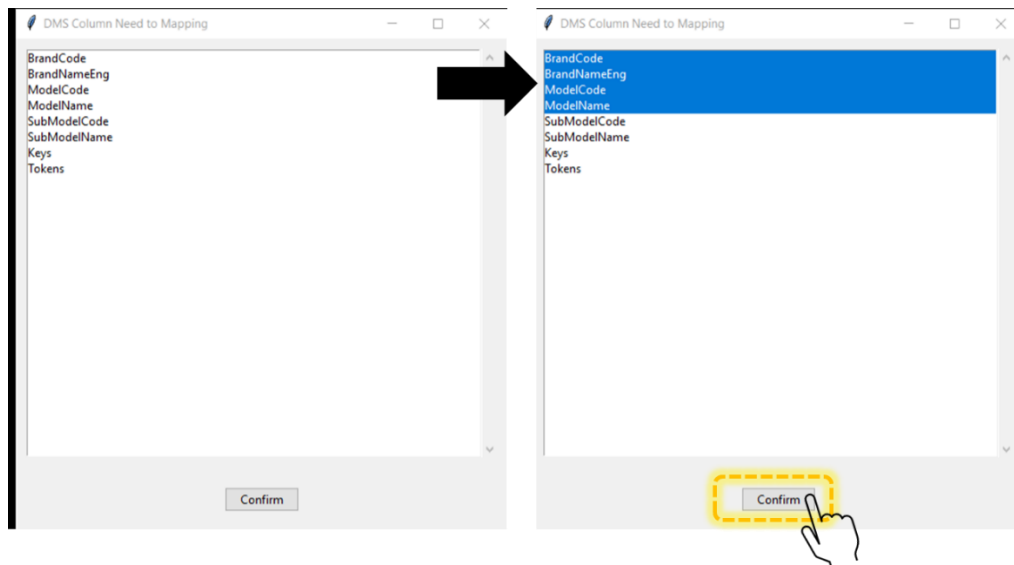


4.2.3 Start Matching File

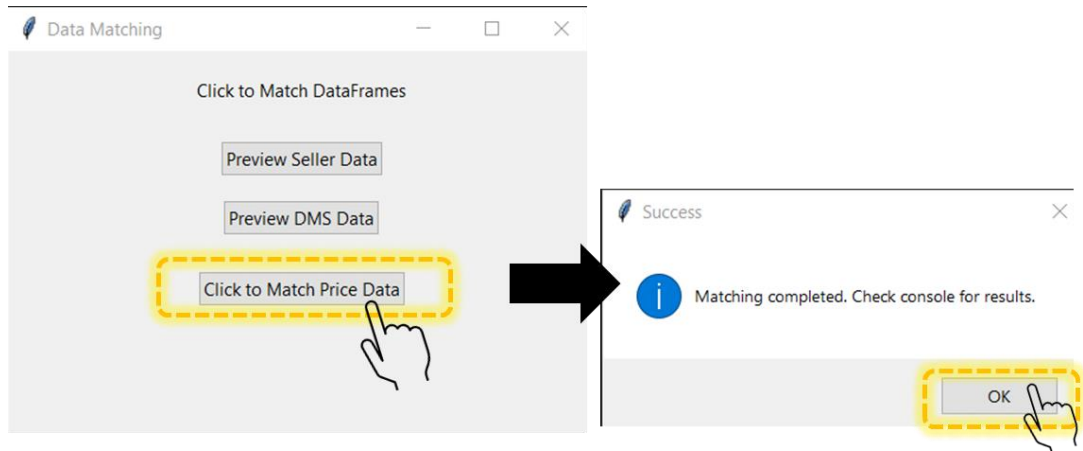
- Choose the columns, click the "Confirm" button. This will initiate the 'Token Extraction' phase to add more accuracy. For example, select the columns labeled Brand and Model.



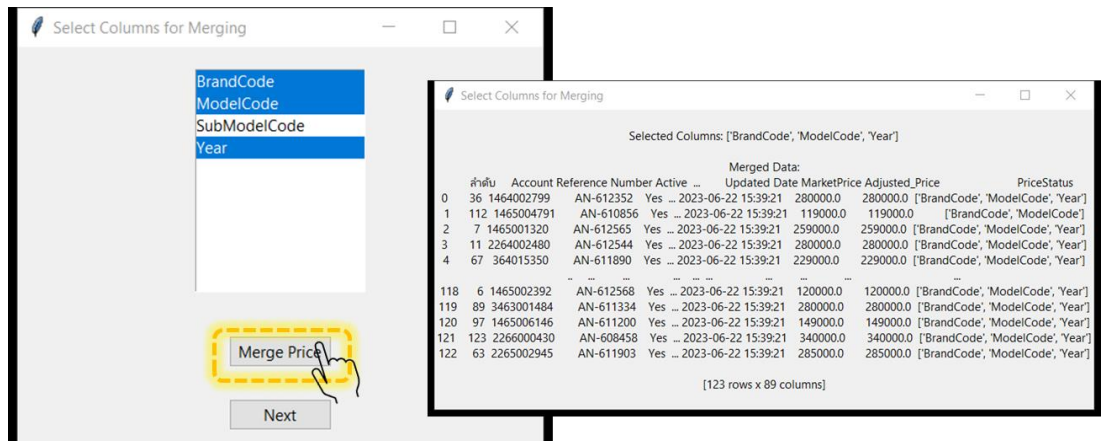
- Select column name for merging both the wording and the code from the DMS file. Then, click “Confirm” to proceed with the price-matching process. Moving forward, ensure to select both the Brand and Model based on their respective names and codes.



- Click to Match price Data button when matching completed will display window. Then, click “OK” button to next process.

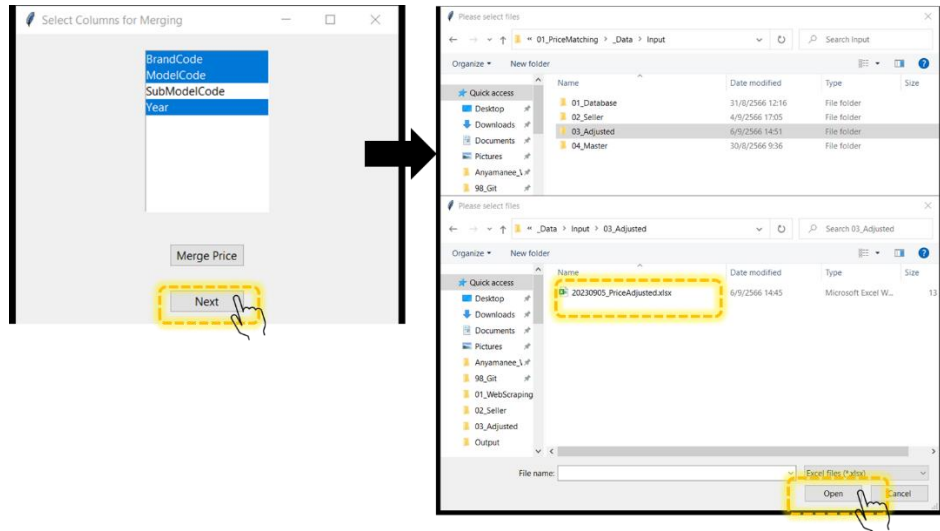


- Select column name and click “Merge Price” button to merge price with seller file.



4.2.4 Adjust Pricing File

- Click “Next” button to select (yyyyymmdd)_PriceAdjust.xlsx file.

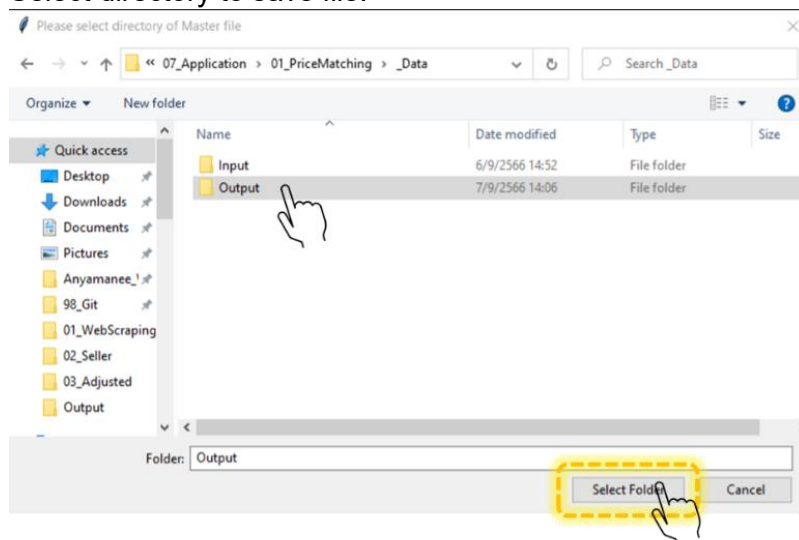


Example of Adjusted Price Template File:

Grade	Brand	Model	SubModel	Discount/Addition
1	-	-	-	-15
2	-	-	-	-10
3	-	-	-	-5
3.5	-	-	-	-5
99	-	-	-	-20
B2	-	-	-	-25
R	-	-	-	-30
1	TOYOTA	VIOS	-	0
2	TOYOTA	VIOS	-	0
3	TOYOTA	VIOS	-	0
99	TOYOTA	CITY	-	0
R	TOYOTA	CITY	-	0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

4.2.5 Saving File

- Select directory to save file.



5. Result

In the price matching program, the system will generate a comprehensive result detailing the adjusted prices. This result is derived by comparing your seller data with the master database, factoring in all the priority and mapping specifications you've set.

Downloads > ProgramTest > PriceMatching_Program_V1.1 > _Data > Output

Name	Date modified	Type
01_TestOutput	7/9/2566 16:45	File folder
20230907_222658_vendor_estprice.csv	7/9/2566 22:34	Microsoft Excel Co...

The output file will typically have the following columns:

Market Price	Price as listed from market price (website).
Adjusted Price	Price after applying the criteria from the Adjust Pricing File
Price Status	Indicates if a match was found in the market price data and what criteria were applied.
Discount/Addition	Discount and Addition to adjust the price from Market Price
Adjusted Status	Indicates if a match was found in adjust price with master list

NEW ADDED COLUMNS

GRP	Brand	Model	Year	Color	Gear	CC	Note	Repo	Note	Inspection	Grade	Syst	RB	Whole	New	Car	Pi	RB	Price	Li	RB	Price	Market	Adjusted	Price	Status	Discount	Adjusted	Status
CHEVROLE	COLORA	L	2012	ขาว	M	2499	99	รถเก่าไม่ถูกกฎ	อุปกรณ์	99	165500	594000	165500	165500	208000	197600							119000	110670		'BrandCoc	-5	'Grade	
CHEVROLE	COLORA	L	2011	เทา	M	2499	R	รถเก่าไม่ถูกกฎ	อุปกรณ์	99	182500	688000	182500	182500	119000	110670							119000	110670		'BrandCoc	-7	'Grade	
CHEVROLE	COLORA	L	2013	ขาว	M	2776	2	รถเก๋ง	เครื่องยนต์	2	245500	852000	245500	245500	239000	234220							239000	234220		'BrandCoc	-2	'Grade	
CHEVROLE	COLORA	L	2012	เทา	M	2776	2	รถเก๋ง	เครื่องยนต์	2	247000	852000	247000	247000	208000	203840							208000	203840		'BrandCoc	-2	'Grade	
FORD	FOCUS	Sp	2012	เทา	A	1999	3	รถเก๋ง	เครื่องยนต์	3	190000	1079000	190000	190000	169000	163930							169000	163930		'BrandCoc	-3	'Grade	
FORD	FOCUS	Sp	2013	ขาว	A	1999	3	รถเก๋ง	เครื่องยนต์	3	199500	1079000	199500	199500	139000	134830							139000	134830		'BrandCoc	-3	'Grade	
FORD	RANGER	H	2010	ขาว	M	2499	2	รถกระบะ	เครื่องยนต์	2	198500	699000	198500	198500	199000	195020							199000	195020		'BrandCoc	-2	'Grade	
HONDA	ACCORD	E	2009	เทา	A	1997	R	รถเก๋ง	เครื่องยนต์	2	245500	1265000	245500	245500	229000	215260							229000	215260		'BrandCoc	-6	'Grade	
HONDA	Brio	Ama	2015	เทา	A	1198	3	รถเก๋ง	เครื่องยนต์	3	191000	493000	191000	191000	100000	97000							100000	97000		'BrandCoc	-3	'Grade	
HONDA	CITY	S i-V	2012	ขาว	A	1497	99	รถเก๋ง	เครื่องยนต์	99	195000	599000	195000	195000	184000	138000							184000	138000		'BrandCoc	-25	'Grade', 'BrandCode'	
HONDA	CITY	S i-V	2013	เทา	A	1497	1	รถเก๋ง	เครื่องยนต์	1	207000	599000	207000	207000	199000	197010							199000	197010		'BrandCoc	-1	'Grade'	
HONDA	CITY	V CN	2013	ขาว	A	1497	2	รถเก๋ง	เครื่องยนต์	2	202500	706000	202500	202500	199000	195020							199000	195020		'BrandCoc	-2	'Grade'	
HONDA	CITY	V i-V	2010	ขาว	A	1497	1	รถเก๋ง	เครื่องยนต์	1	166000	619000	166000	166000	189000	187110							189000	187110		'BrandCoc	-1	'Grade'	
HONDA	CITY	V i-V	2013	เทา	A	1497	2	รถเก๋ง	เครื่องยนต์	2	207000	646000	207000	207000	199000	195020							199000	195020		'BrandCoc	-2	'Grade'	
HONDA	CITY	V i-V	2010	ขาว	A	1497	R	รถเก๋ง	เครื่องยนต์	R	166000	619000	166000	166000	189000	132300							189000	132300		'BrandCoc	-30	'Grade', 'BrandCode'	
HONDA	CITY	ZX	2007	ขาว	A	1497	99	รถเก๋ง	เครื่องยนต์	99	98500	589000	98500	98500	109000	81750							109000	81750		'BrandCoc	-25	'Grade', 'BrandCode'	
HONDA	CITY	ZX	2006	เทา	A	1497	2	รถเก๋ง	เครื่องยนต์	2	101500	681000	101500	101500	115000	80500							115000	80500		'BrandCoc	-30	'Grade', 'BrandCode'	
HONDA	CITY	ZX	2006	เทา	M	1497	2	รถเก๋ง	เครื่องยนต์	2	94500	598000	94500	94500	115000	112700							115000	112700		'BrandCoc	-2	'Grade'	

6. Revision

REV	Description	Released Date	Writer
1.0	Initiation document	7-Sep-2023	Anyamanee P.
1.1	Update the result about price adjustment that apply discount and tracking the adjust status	15-Sep-2023	Anyamanee P.