

A photograph of the Foster School of Business building at the University of Washington. The building is a modern, multi-story structure with a mix of brick and large glass windows. The sky is clear and blue. In the foreground, there is a paved plaza with some outdoor seating and a few people walking.

Introduction to Robotic Process Automation (RPA)

Order-to-Cash Process Case Individual Workshop 2

Adv. Advisory | ACCTG 528

MPAcc Class of 2025

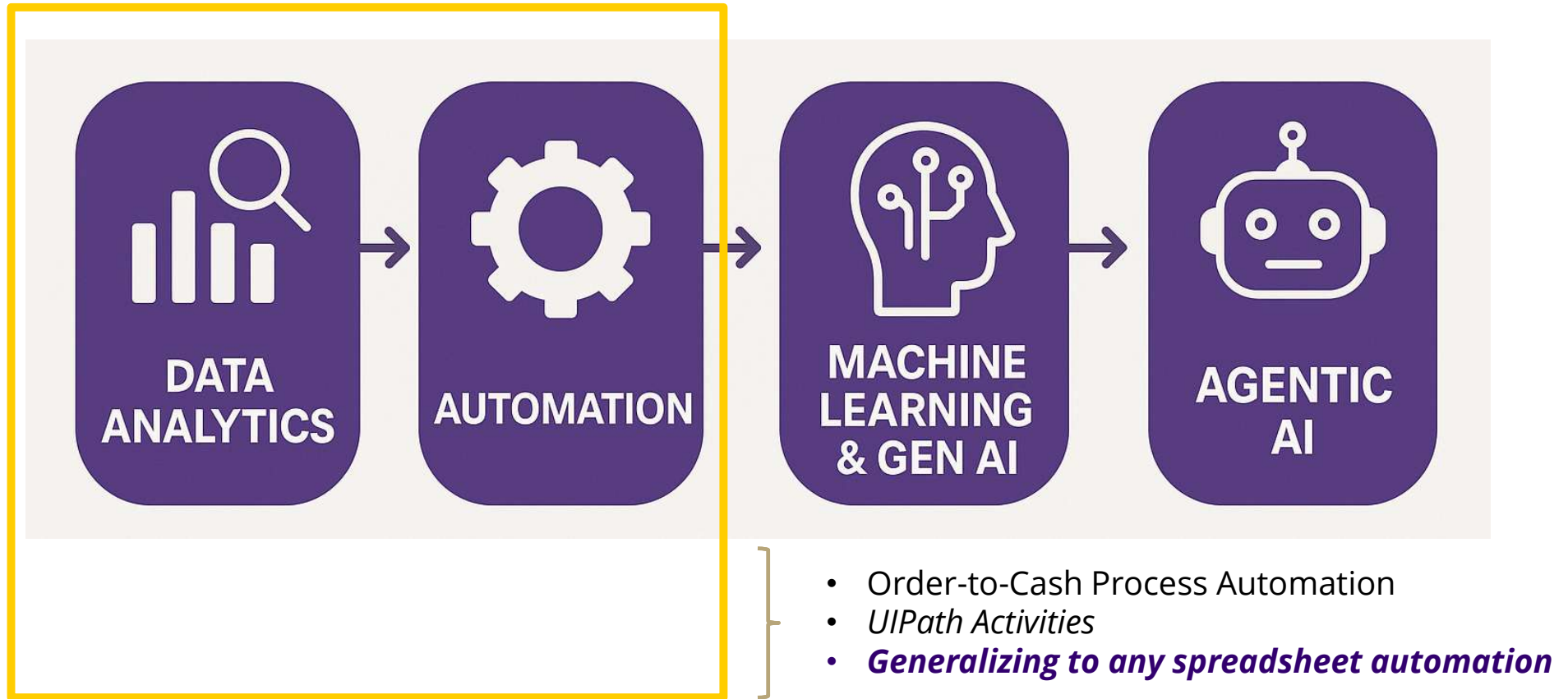
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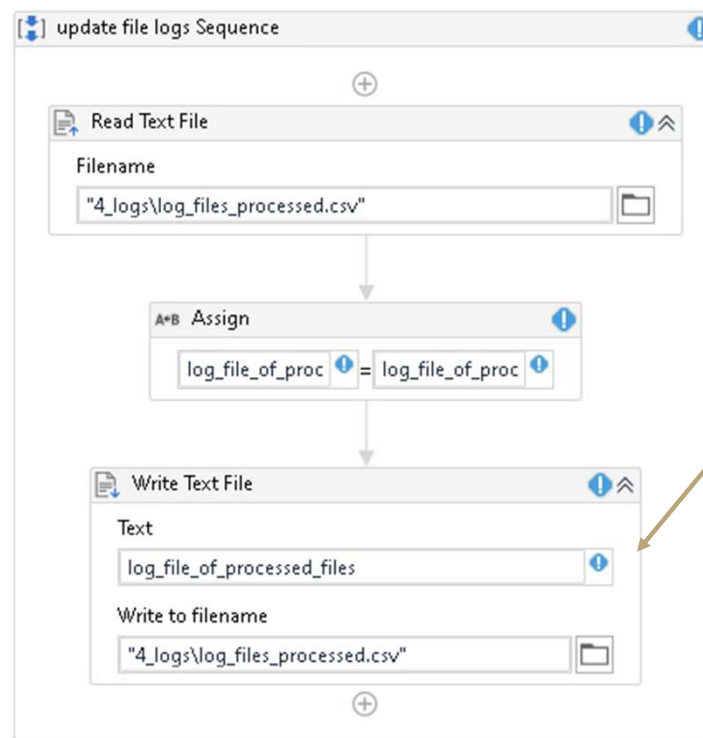
Agenda

- **Review**
 - **Debugging Tips and Hints**
- Pure Reformed Oils Case: Continued
 - Possible extensions

Course Overview



Debugging Hints and Tips



Validation error: variable is out of scope

1. Either not created yet, or
2. Created in a different scope

Fix by creating variable (CTRL+K) or increasing the scope (find where you created it)

Debugging Hints and Tips

Warning – variable has been defined twice across different scope levels

Name	Variable type	Scope
log_file_of_processed_files	String	update file logs Sequence
logger_file	String	PRO: Order-to-Cash RPA
logger_files_to_process	Int32	PRO: Order-to-Cash RPA
DT_processed_files	DataTable	PRO: Order-to-Cash RPA
etsy_files_count	Int32	PRO: Order-to-Cash RPA
ups_files_count	Int32	PRO: Order-to-Cash RPA
ups_files_del_count	Int32	PRO: Order-to-Cash RPA
csv_file_log	String	PRO: Order-to-Cash RPA
etsy_files_array	String[]	PRO: Order-to-Cash RPA
ups_files_array	String[]	PRO: Order-to-Cash RPA
ups_files_del_array	String[]	PRO: Order-to-Cash RPA
DT_erp_customers	DataTable	PRO: Order-to-Cash RPA
DT_erp_sales_orders	DataTable	PRO: Order-to-Cash RPA
etsy_files_array	String	update file logs Sequence

Problems: may cause overwriting of data, or access of variable not expected.

Fix: Usually just delete the one with lowest scope (created by accident)
or limit the scope of the higher scope variable

Debugging Hints and Tips

Tracking down a new error

May require multiple steps,

first look for some evidence of what it relates to

what is an exception type `uipath.excel.csvParseException`?

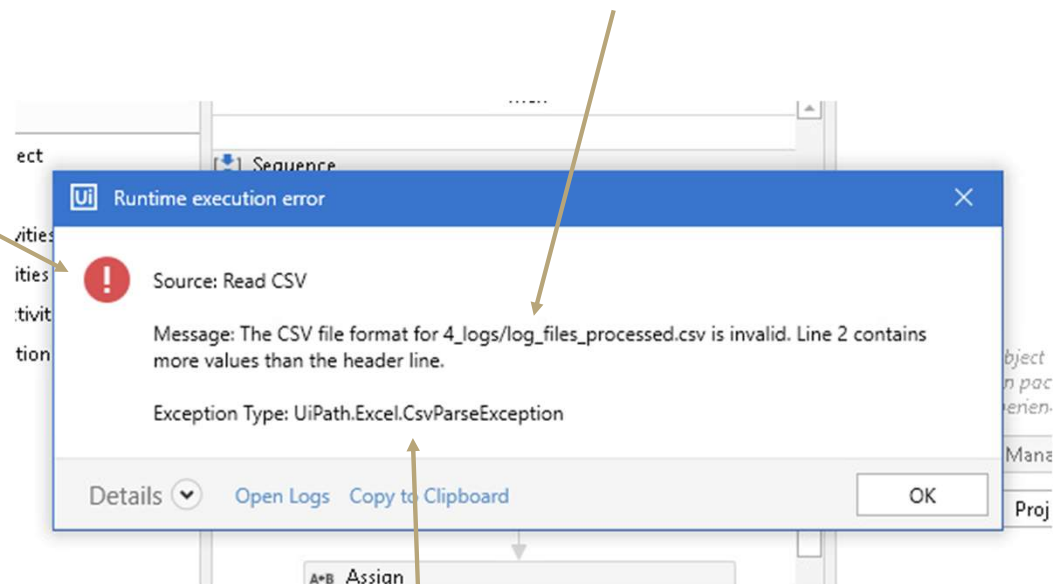
The `UiPath.Excel.CsvParseException` is an exception type thrown by UiPath's Excel or Workbook activities when there is a **problem parsing a CSV file**. It typically occurs in the `Read CSV` activity and is part of the namespace `UiPath.Excel`.

What it means:

This exception indicates that UiPath encountered a **format it couldn't handle** while reading a `.csv` file—usually due to malformed structure or unexpected delimiters.

Common causes:

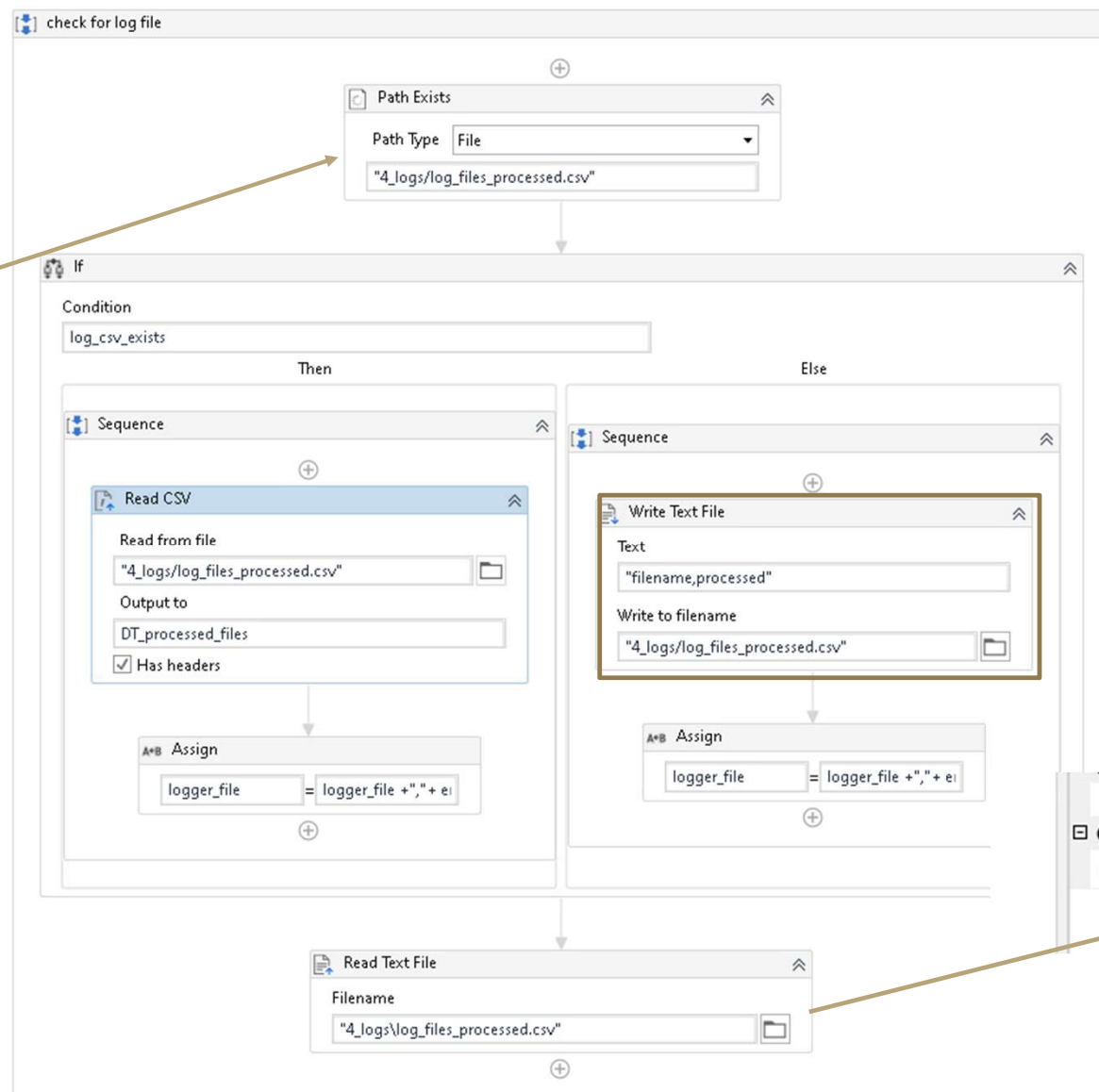
1. **Inconsistent column counts** across rows (e.g., header has 5 columns, a later row has 3).
2. **Unescaped delimiters** (e.g., commas inside quoted strings not properly escaped).
3. **Improper encoding** (e.g., the file is UTF-16 but you're reading it as UTF-8).
4. **Broken or partial rows**, especially when generated by external systems.
5. **Corrupted line endings** (especially when moving between Unix and Windows systems).




You can google/GPT the exception type

We identified it has something to do with this file

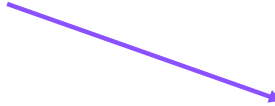
So we can retrace our steps



Take a look at the file, we get this but expect this

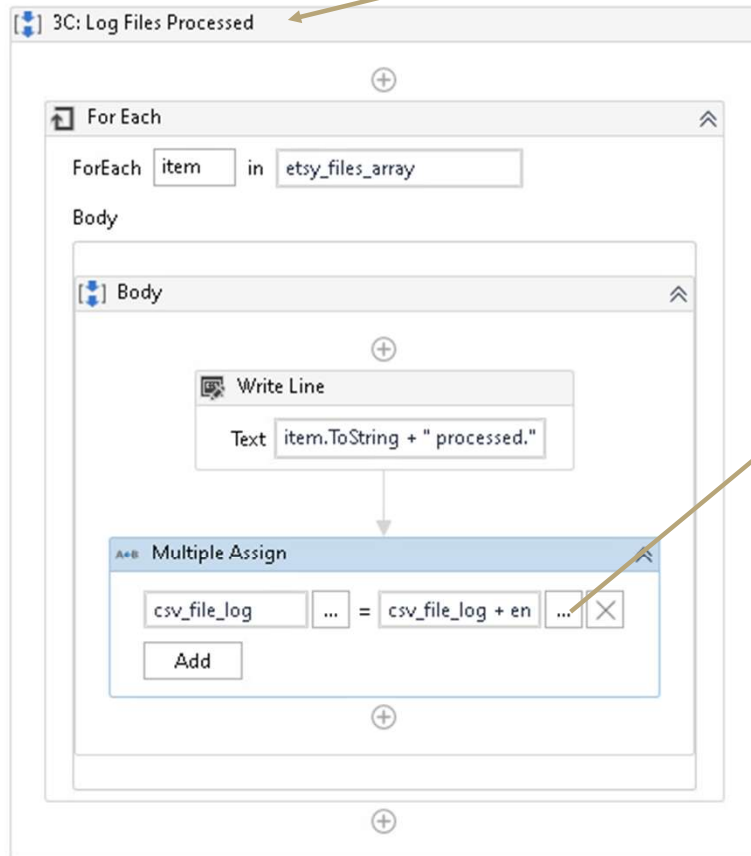


A	B	C
filename	processedfilename	processed
0_etsy_input\orders_2025-04-01.csv	4/22/2025 11:48	



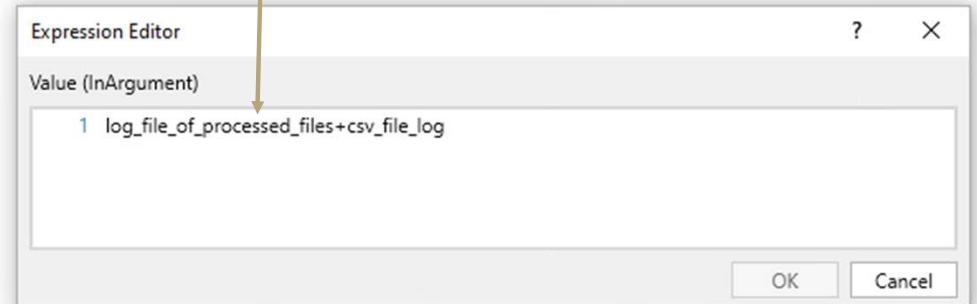
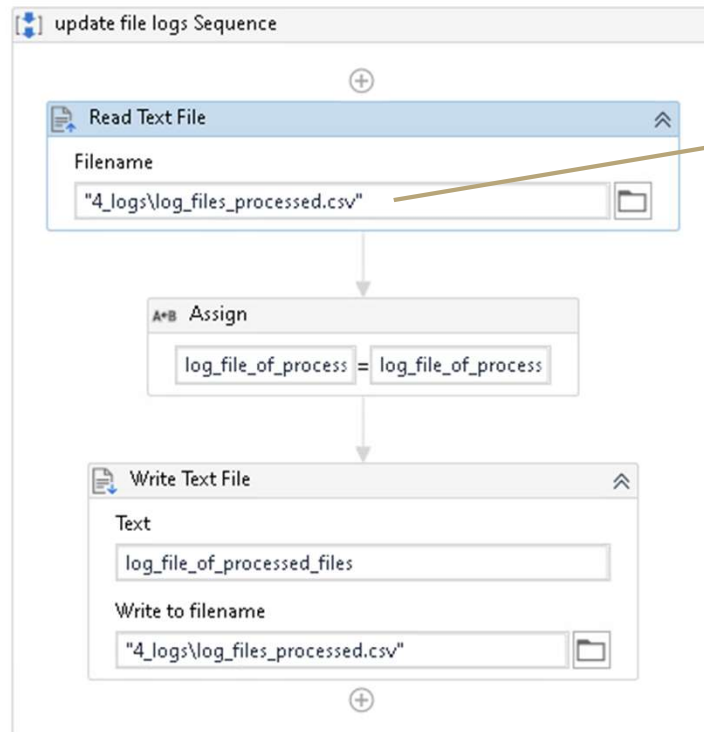
A	B
filename	processed
0_etsy_input\orders_2025-04-01.csv	4/22/2025 16:20
0_etsy_input\orders_2025-04-02.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-03.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-04.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-05.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-06.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-07.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-08.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-09.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-10.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-11.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-12.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-13.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-14.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-15.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-16.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-17.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-18.csv	4/22/2025 16:27
0_etsy_input\orders_2025-04-19.csv	4/22/2025 16:27

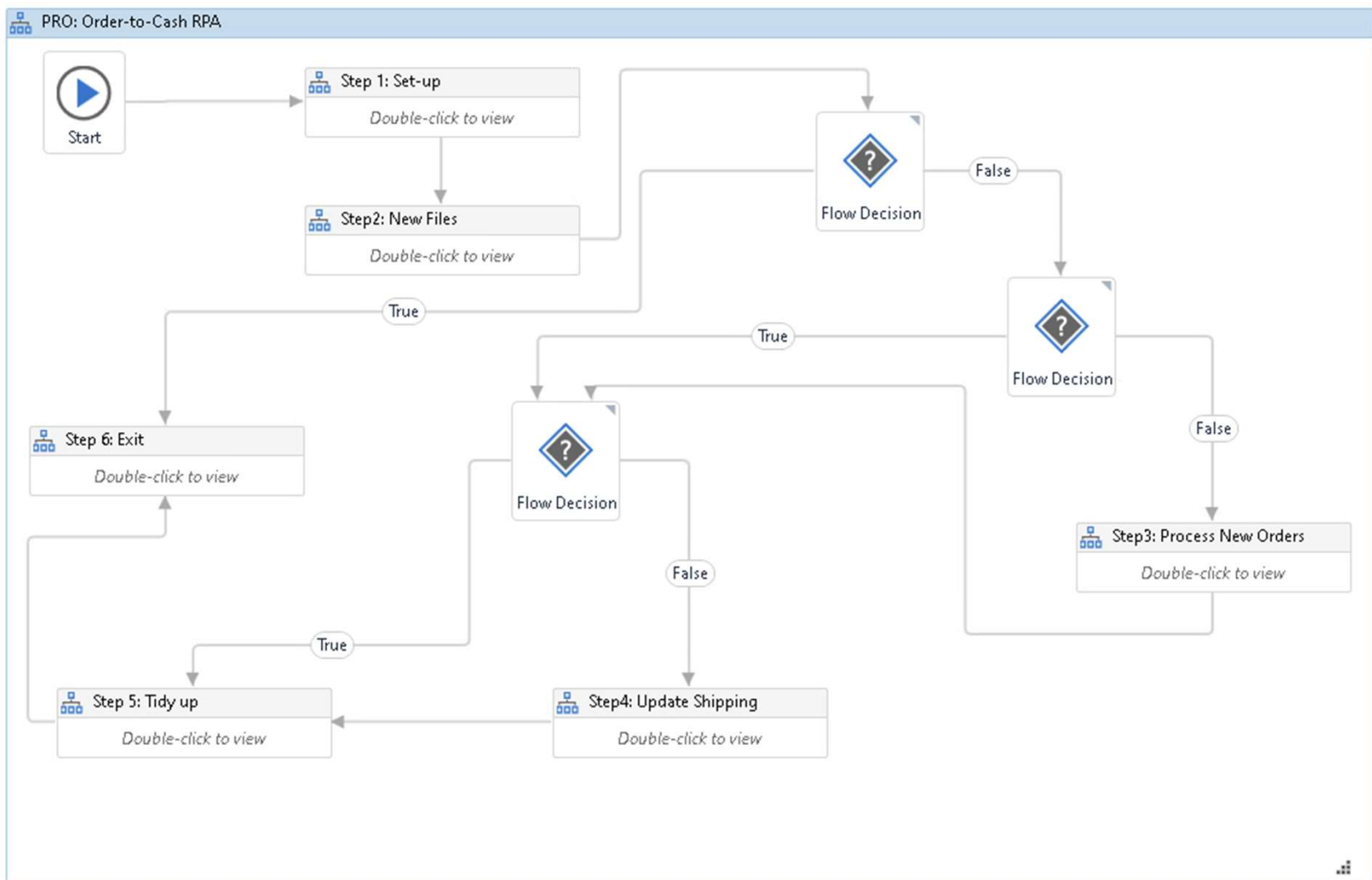
Look for times that the file might be interacted with, e.g., updates to log



What was the problem???

It was this part





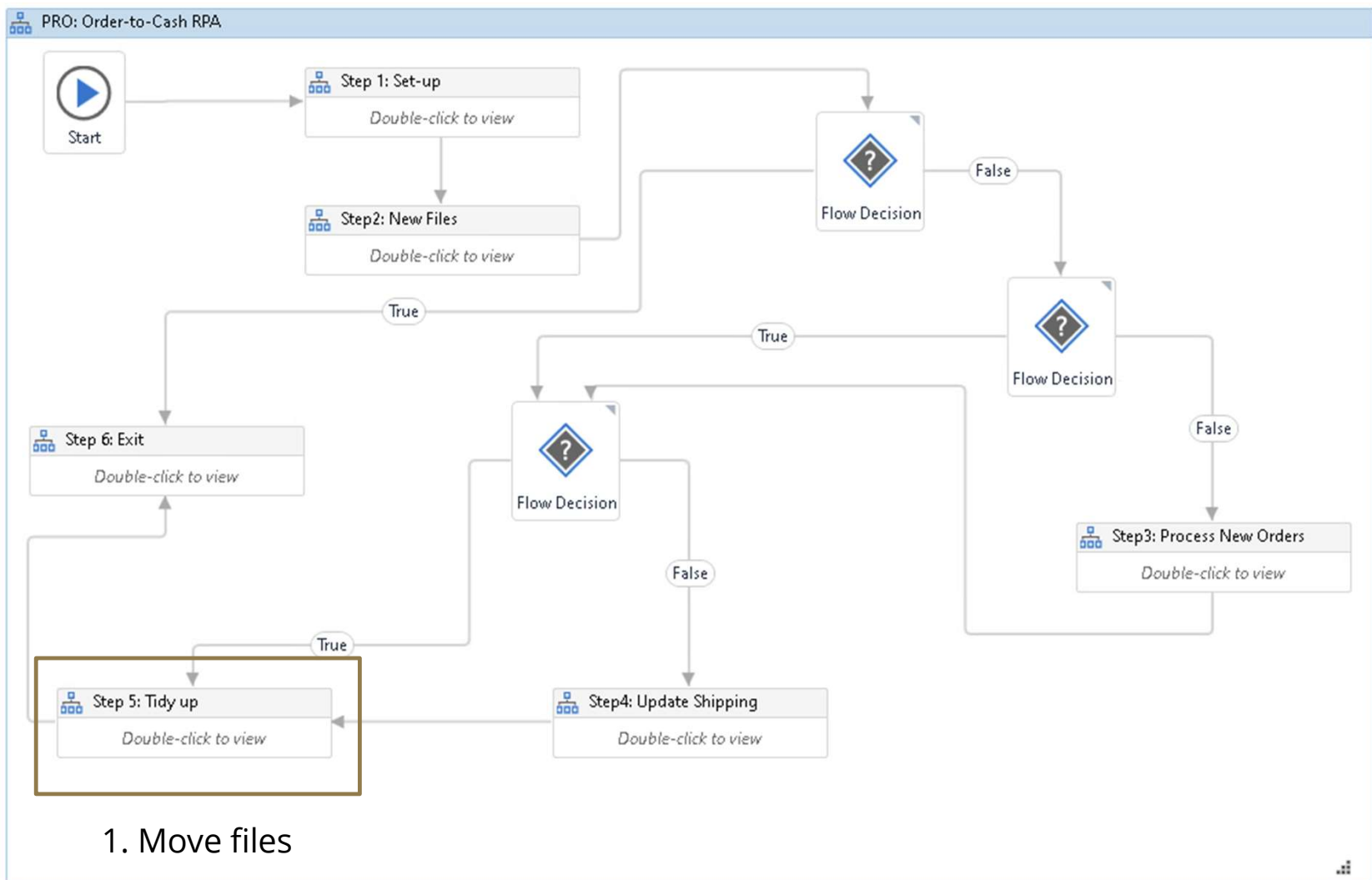
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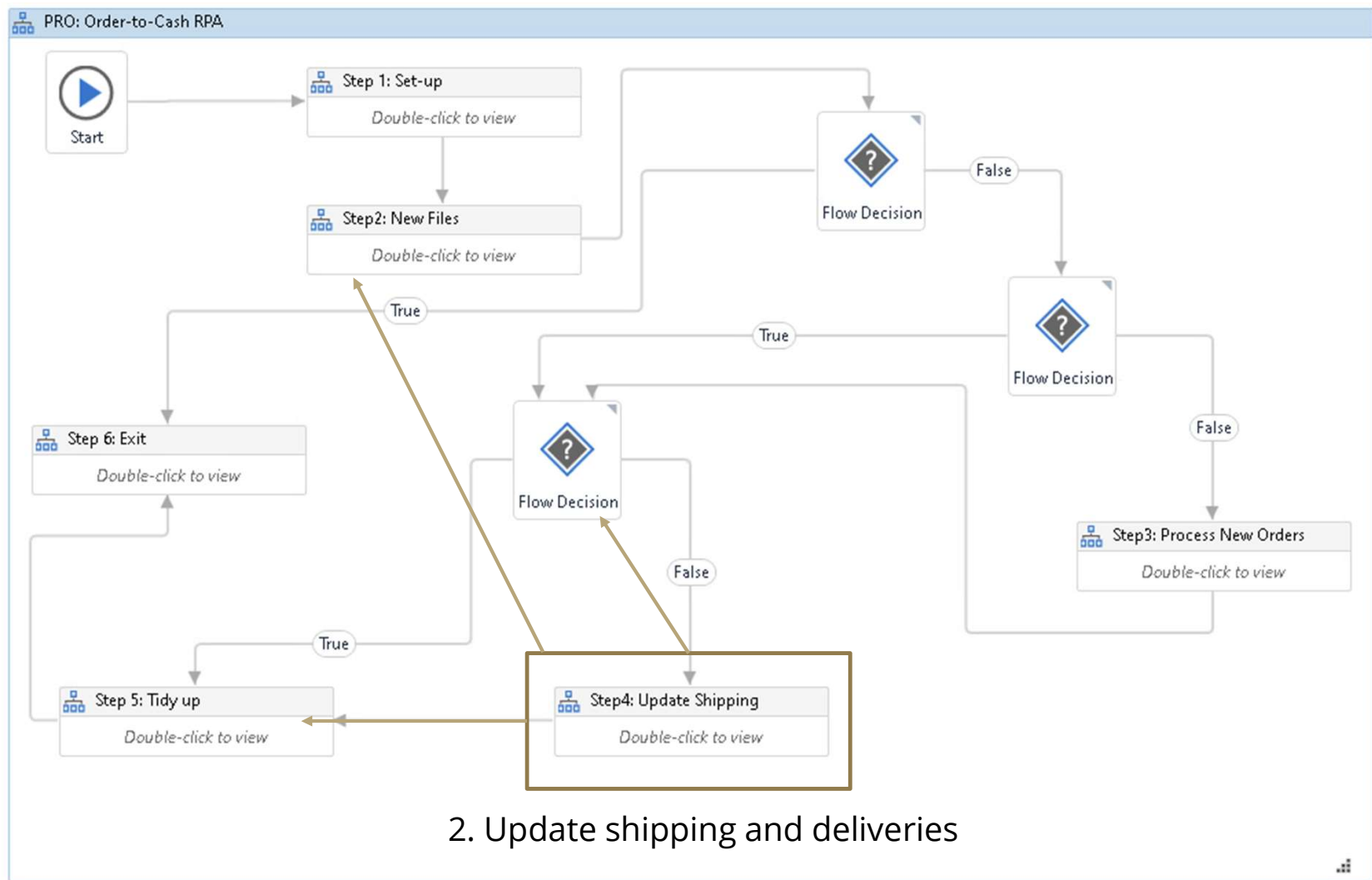
- Review
 - Debugging tips and hints
- **Pure Reformed Oils Case: Continued**
 - **Possible extensions**

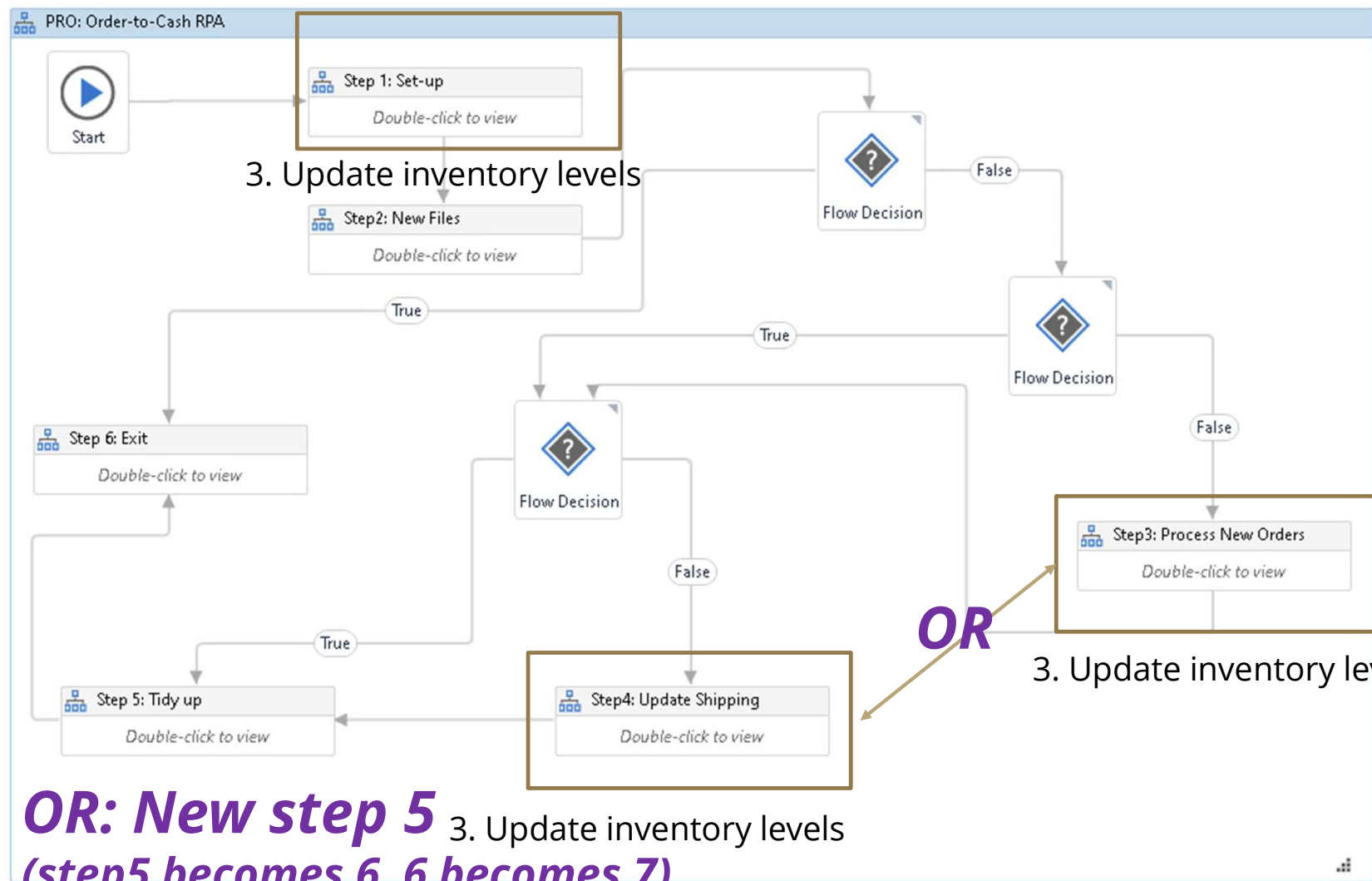
Possible extensions

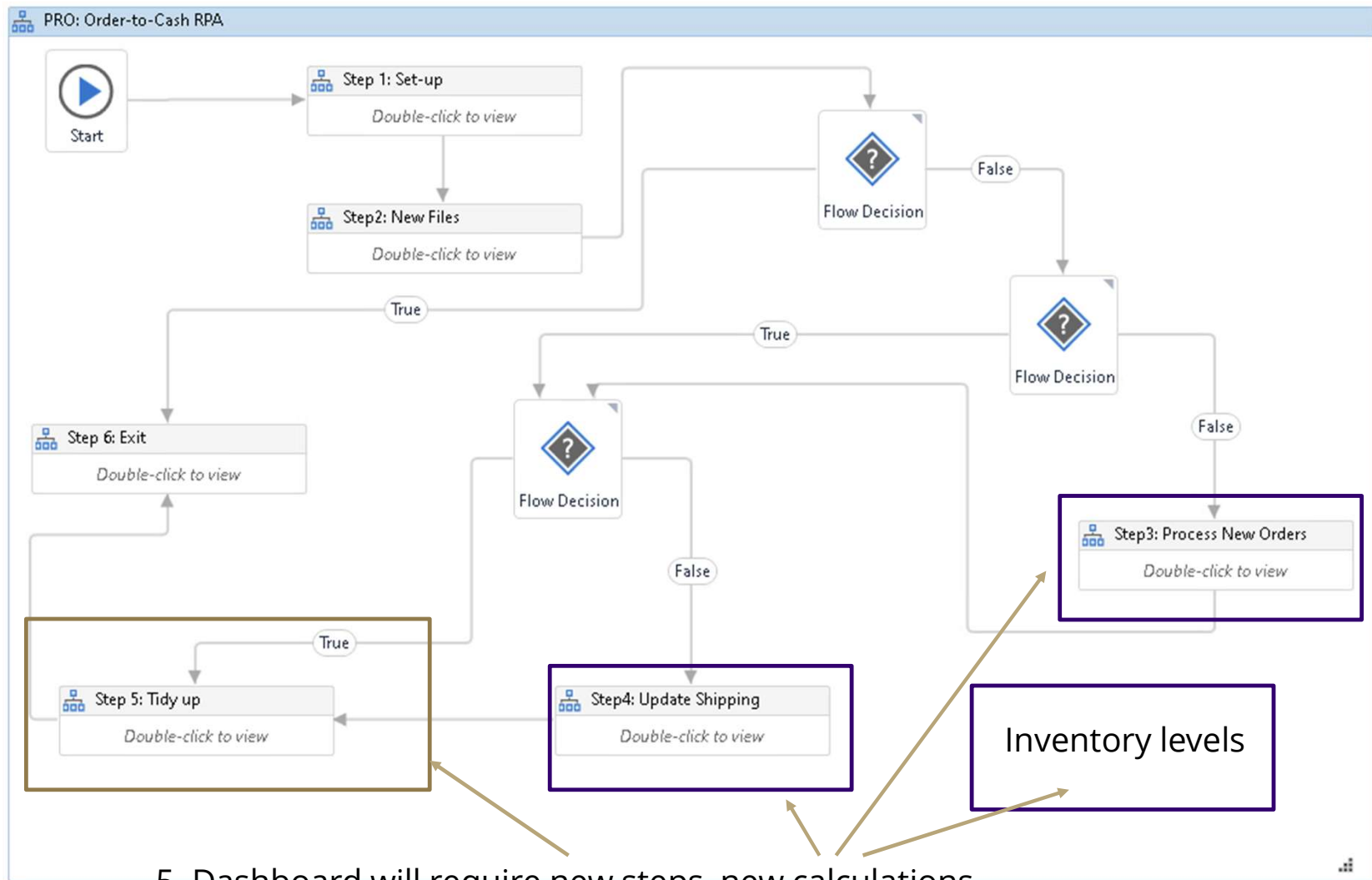
Create a bot that automates the order-to-cash workflow described by the clients:

1. Move processed files automatically
2. Update ERP for shipments/deliveries
3. Update Inventory levels
4. Create metadata tags, extend the logger (with a json output)
5. Create diagnostic output for a dashboard / create dashboard
6. Other ideas:
 1. ETSY Payments updates
 2. Accounting system
 3. Auto reconciliations, controls
 4. And anything else you think could be automated / improved.









Possible extensions - recap

Create a bot that automates the order-to-cash workflow described by the clients:

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5. Create diagnostic output for a dashboard / create dashboard
6. Other ideas:
 1. ETSY Payments updates
 2. Accounting system
 3. Auto reconciliations, controls
 4. And anything else you think could be automated / improved.

Possible extensions – suggestions & hints

- Remember the video should include inputs & outputs and preferably the bot running.
 - Hint: show the output log in the video.
- Make it very clear what your extension(s) is(are) in the video.
 - Hint: if you go beyond my list, make it clear, and if you do consider researching “*end-to-end*” automation and discussing your bot/solution using this language.
- Discuss the solution in terms of efficiency (hours saved) and effectiveness (minimization of potential human errors, typos, mis pasting of data, etc).
 - Hint: Consider talking about other uses of time for Victoria and Skylar.
 - Hint: Another discussion point is the provision of follow up services, including maintenance and or help with other automations. You are welcome to discuss these hypotheticals.

Thank you

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