

Stock Reports RPA Test

Pre-requisites

Sent in advance:

- UiPath Community installed and connected to community Orchestrator. The task will use the queue functionality on Orchestrator.
- A browser with the UiPath extension installed. Preferably Chrome.
- A means to send emails, e.g., <https://docs.uipath.com/installation-and-upgrade/docs/studio-enabling-gmail-for-email-activities>

The Task

We want to share information around the most advanced and declined stocks with an internal user over email.

General Notes

- There should be two separate automations dispatcher and performer.
- The performer should use the RE framework.
- All user accounts/emails should be configurable.
- Please specify all assets to be setup and their values. If credentials, please do not share.
- Put the two automations/folders into a single zip file to send on.
- Use any packages from the Official, Marketplace or Microsoft visual studio offline packages.
- Please consider code/activity structure and readability.

Step 1: Get most advanced + declined stocks

1. Navigate to <https://www.nasdaq.com/market-activity/stocks>
2. Read all the data from the table 'Most Advanced + Declined'

Most Advanced + Declined AS OF MAR 01, 2021 3:59 PM ET

Symbol	Name	Change
MORF	Morphic Holding, Inc.	+133.21%


a.

3. Store each row with data as a queue item to be processed by the second automation.
4. Add a single stock to the queue where the 'Symbol' does not exist... e.g.
 - a. Symbol: AB67

Step 2: Perform the reporting task

For each queue item perform the following tasks. For each task please set sub-status on the queue item to a relevant value.

1. Using the 'Find a Symbol' functionality find the symbol
2. Navigate to 'Historical Quotes' on the left menu
 - a. Extract the data for 6 months (6M)

1M	6M	YTD	1Y	5Y	MAX	DOWNLOAD DATA 
Date	Close/Last	Volume	Open	High	Low	
03/05/2021	\$1.8602	1,091,803	\$1.98	\$2.1	\$1.05	
03/04/2021	\$2.1	747,618	\$2.9	\$3.25	\$1.61	
03/03/2021	\$3.06	310,807	\$4.45	\$4.5	\$3.06	

- b.
3. Export this data to a CSV file including all the fields on the table, with the additional columns and changes:
 - a. For the existing Date column please output it as DD/MM/YYYY. E.g. 31/01/2021.
 - b. Difference: the difference between the High and Low Columns.
 - c. Volume Indicator: if the volume is under 20,000,000 this column should be 'Low'. Over 20,000,000 this value should be 'High'.
 4. Email this data to a configurable email address
 - a. For the end user in the body of the email please include the key data from the 'Summary' page listed under Quotes on the left-hand menu of the stock.

Key Data

Exchange	NASDAQ-GM	Market Cap	3,483,791,547
Sector	Technology	P/E Ratio	35.32

i.

Exceptions

- Please handle the non-existing stock symbol that was created in the dispatcher as a Business rule exception and email a configurable user's email with the notification.
- In the Key Data, if there is no Market Cap value (i.e. it is 'N/A') please treat this as a System Exception.
- Please handle any other System or business exceptions you see fit.