Project: Online Shopping Data Synchronization

Contents

lr	ntroduction	. 1
	Step 1: Confirm the Required Data Format and Data Attribute	. 2
	Step 1.1: Get Ebay Upload Docs	. 2
	Step 1.2: Confirm the Data attributes and its format from wholesales which are required for Ebay Upload	. 2
	Step 1.3: Confirm the Data attributes from Ebay Platform which are required for Ebay Upload	
	Step 2: Web Scrape from Online Website -Python (Selenium)	. 4
	Step 2.1: Import Selenium and Pandas as main libraries for web scraping and CSV Fi	
	Step 2.2: Apply Edge Browser as Webdrive	. 5
	Step 2.3: Simulate Search, Click, Find, Copy, Filter Actions by Python Selenium	. 6
	Step 3: Filter and Reformat Scraped Data into Ebay Bulk Upload CSV Format	. 7
	Step 4: Test Upload	. 7
	Step 4.1: Test Upload Product in different Categories with different Type into ebay	. 7
	Step 4.2: Get Error/Warning Feedback Report, and Rectify	. 7
	Step 4.3: Final Upload	. 8

Introduction

This project is aimed to synchronize data between Wholesalers and its Distributors, as they all have different online shopping platforms, and the Wholesalers reject to provide API which directly connect with their intranet. Hence, a Website Scrape methodology is required.

Tool and Technology applied:

Python Pandas,

Python Selemiun,

Ebay Bulk Upload tool,

Excel Formular and Excel VBA

Step 1: Confirm the Required Data Format and Data Attribute

Step 1.1: Get Ebay Upload Docs

https://www.ebay.com.au/sh/reports

Get Template -> Source -> List -> Type -> Create or Schedule new listings -> File Type-> csv-> Categories -> Men



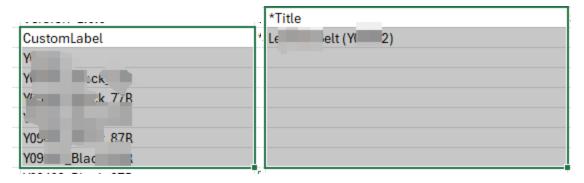
eBay-category-listin g-template-Jul-15-2(

Bulk Upload User Manual:



Step 1.2: Confirm the Data attributes and its format from wholesales which are required for Ebay Upload

SKU, Title, RelationshipDetails, Colour, Size, PicURL



RelationshipDetails	
ze=72R;77R;82R;87R;92R;97R;102R;107R;112R;117R;122R;127R Colour=Black;Chocolate	
Colour=Black Size=72R	
Colour=Black Size=77R	
Colour=Black Size=82R	
Colour=Black Size=87R	
Colour=Black Size=92R	

*C:Colour	*C:Size
Black	72R
Black	77R
Black	82R
Black	87R
Black	92R



Step 1.3: Confirm the Data attributes from Ebay Platform which are required for Ebay Upload

- 1. Action: Add, VerifyAdd, Revise, Relist, AddToltermDescription, End Status
- 2. Category:
- 3. StoreCategory:
- 4. ConditionID:
- 5. Brand:
- 6. Type:
- 7. Style:

- 8. Department:
- 9. Size Type:
- 10. Vintage:
- 11. Handmade:
- 12. GalleryType:
- 13. Format:
- 14. Duration:
- 15. Quantity:
- 16. Location:
- 17. ShippingType:
- 18. ShippingService-1:Option:
- 19. ShippingService-1:Cost:
- 20. *ReturnsAcceptedOption:
- 21. ReturnsWithinOption:
- 22. RefundOption:
- 23. ShippingCostPaidByOption:

Step 2: Web Scrape from Online Website -Python (Selenium)

Step 2.1: Import Selenium and Pandas as main libraries for web scraping and CSV File Modifier

```
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC
import pandas as pd
import time
import re
import csv
```

Step 2.2: Apply Edge Browser as Webdrive

Step 2.3: Simulate Search, Click, Find, Copy, Filter Actions by Python Selenium

Step 3: Filter and Reformat Scraped Data into Ebay Bulk Upload CSV Format

```
import pandas as pd
import numpy as np
import os
# Read the CSV file into a DataFrame ...... v')
csv_file_path = 'GL
data_array = df.to_numpy()
   if row_idx>0:
     RowData_Variation =[]
     NotRepeat = False
      AllImage='
      NoRepeatImage = []
      for col_idx, value in enumerate(row):
         if col_idx == 0:
            if value not in SKUArray:
              NotRepeat = True
               SKUArra
               RowData_Variable[1] =
               RowData Variable[7] =
               RowData Variable[8]
```

Step 4: Test Upload

Step 4.1: Test Upload Product in different Categories with different Type into ebay

```
## A | Company |
```

Step 4.3: Final Upload