

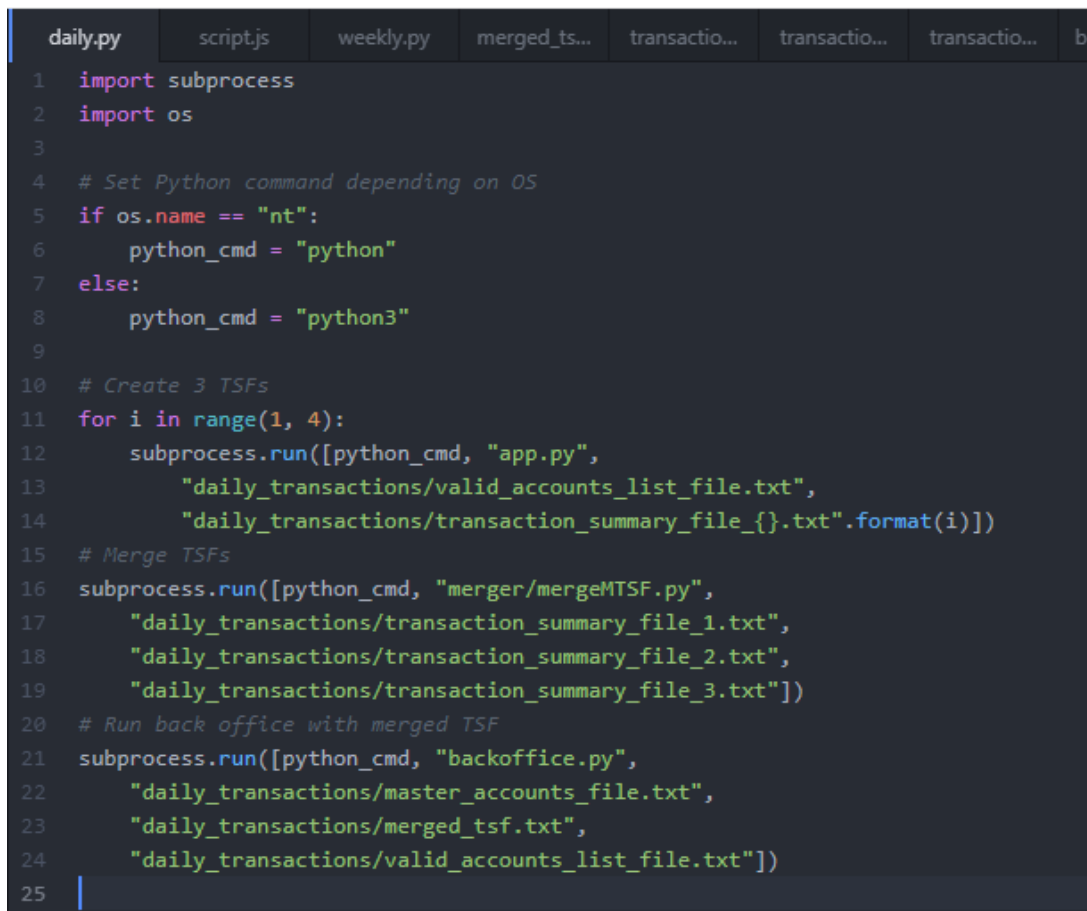
A6 – FRONTEND + BACK OFFICE

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SOURCE LISTING



```
daily.py  script.js  weekly.py  merged_ts...  transactio...  transactio...  transactio...  ba
1  import subprocess
2  import os
3
4  # Set Python command depending on OS
5  if os.name == "nt":
6      python_cmd = "python"
7  else:
8      python_cmd = "python3"
9
10 # Create 3 TSFs
11 for i in range(1, 4):
12     subprocess.run([python_cmd, "app.py",
13                     "daily_transactions/valid_accounts_list_file.txt",
14                     "daily_transactions/transaction_summary_file_{}.txt".format(i)])
15 # Merge TSFs
16 subprocess.run([python_cmd, "merger/mergeMTSF.py",
17                 "daily_transactions/transaction_summary_file_1.txt",
18                 "daily_transactions/transaction_summary_file_2.txt",
19                 "daily_transactions/transaction_summary_file_3.txt"])
20 # Run back office with merged TSF
21 subprocess.run([python_cmd, "backoffice.py",
22                 "daily_transactions/master_accounts_file.txt",
23                 "daily_transactions/merged_tsf.txt",
24                 "daily_transactions/valid_accounts_list_file.txt"])
25
```

Figure 1--daily.py

daily.py	script.js	weekly.py	merged_ts...	transactio...	transactio...	transactio...	ba
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```
1 import subprocess
2 import os
3
4 # Set Python command depending on OS
5 if os.name == "nt":
6     python_cmd = "python"
7 else:
8     python_cmd = "python3"
9
10 # Run 5 days per week
11 for i in range(5):
12     subprocess.run([python_cmd, "daily.py"])
13
```

Figure 2--weekly.py

TRANSACTION SESSION INPUTS FOR DAILY RUN

The transactions chosen for this daily run are the first day of the week.

ransactio...	transactio...	transactio...	backoffice....	mergeMTS...	I1-I6.txt	valid_acco...	mast
--------------	---------------	---------------	----------------	-------------	-----------	---------------	------

```
1 NEW 4206969 000 0000000 Christopher
2 EOS 0000000 000 0000000 ***
3
```

Figure 3--transaction_summary_file_1.txt

ransactio...	transactio...	transactio...	backoffice....	mergeMTS...	I1-I6.txt	valid_acco...	mast
--------------	---------------	---------------	----------------	-------------	-----------	---------------	------

```
1 NEW 8887777 000 0000000 Ryan
2 EOS 0000000 000 0000000 ***
3
```

Figure 4--transaction_summary_file_2.txt

ransactio...	transactio...	transactio...	backoffice....	mergeMTS...	I1-I6.txt	valid_acco...	mast
--------------	---------------	---------------	----------------	-------------	-----------	---------------	------

```
1 NEW 6665555 000 0000000 Jared
2 EOS 0000000 000 0000000 ***
3
```

Figure 5--transaction_summary_file_3.txt

MERGED TSF FOR DAILY RUN

merged_ts...	transactio...	transactio...	transactio...	backoffice....	mergeMTS...	I1-I6.txt	v
1	NEW	4206969	000	0000000	Christopher		
2	EOS	0000000	000	0000000	***		
3	NEW	8887777	000	0000000	Ryan		
4	EOS	0000000	000	0000000	***		
5	NEW	6665555	000	0000000	Jared		
6	EOS	0000000	000	0000000	***		
7							

Figure 6--merged_tsf.txt

MASTER ACCOUNTS FILE FOR EACH DAY IN WEEK

transactio...	transactio...	transactio...	backoffice....	mergeMTS...	I1-I6.txt	valid_acco...	mast
1	8887777	000	Ryan				
2	6665555	000	Jared				
3	4206969	000	Christopher				
4							

Figure 7--master_accounts_file.txt (Day 1)

transactio...	transactio...	transactio...	backoffice....	mergeMTS...	I1-I6.txt	valid_acco...	mast
1	8887777	999999	Ryan				
2	6665555	874535	Jared				
3	4206969	999999	Christopher				
4							

Figure 8--master_accounts_file.txt (Day 2)

transactio...	transactio...	transactio...	backoffice....	mergeMTS...	I1-I6.txt	valid_acco...	mast
1	8887777	941	Ryan				
2	6665555	874545	Jared				
3	6661155	41412	Thomas				
4	4206969	999999	Christopher				
5							

Figure 9--master_accounts_file.txt (Day 3)

	ransactic X	transactio...	transactio...	backoffice....	mergeMTS...	l1-l6.txt	valid_acc...	mast
1	6665555 874545 Jared							
2	6661155 3131 Thomas							
3	4206969 515 Christopher							
4	3131813 000 Brian							
5								

Figure 10--master_accounts_file.txt (Day 4)

	ransactio...	transactio...	transactio...	backoffice....	mergeMTS...	l1-l6.txt	valid_acc...	mast
1	6665555 874545 Jared							
2	6661155 3131 Thomas							
3	3131813 84843 Brian							
4	1113134 89341 Todd							
5								

Figure 11--master_accounts_file.txt (Day 5)

DEFECT TABLE

ERROR	SOLUTION
Transaction Summary File did not overwrite previous days' TSF	Modify Python 'open()' permission from 'w+' to 'wb'
EOF code interpreted by back office from previous days	Modify backoffice.py to account for EOF code displacement
Merged TSF writing to static location	Dynamize merged TSF save location in 'merger/mergeMTSF.py'