Prestige Worldwide: Quinterac Assignment 6

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Daily and Weekly Scripts

The daily and weekly scripts can be seen in the Github for both unix based command lines and windows batch systems in the unixScripts and windowsScripts folders respectively. In unix systems the scripts can be run from within the unixScripts directory with the command ./oneDay, ./oneWeek, etc. In windows, the batch files can be run by double clicking on the file within the file explorer. There are also reset scripts for both the windows and unix scripts which are used to reset all the text files changed by the scripts. The scripts themselves also perform this reset at the beginning of execution. The scripts can be adjusted by removing the echo statements being piped into the python application in order to allow user input during any given session. The batch script for one day and one week can be seen below.

Windows Batch File oneDay.bat

```bash
#!\bin\bash

#script simulates one working day for the quinterac banking system
#Ensure oneDayReset is run before running this

cd ..

: > oneDayTest\summary1.txt
: > oneDayTest\summary2.txt
: > oneDayTest\summary3.txt
: > oneDayTest\summary.txt
echo '1234567
7654321
0000000' > validAcctsListFile.txt
echo '7654321 000 aaa
1234567 20000 cba' > oneDayTest\masterAccts.txt

echo 'login
machine
deposit
1234567
20000
logout' | python3 -m frontend validAcctsListFile.txt oneDayTest\summary1.txt

echo 'login
machine
withdraw
1234567
10000
transfer
1234567
30000
7654321
logout' | python3 -m frontend validAcctsListFile.txt oneDayTest\summary2.txt

echo 'login
agent
createacct
8888888
abc
deposit
7654321
```

```
20000
deleteacct
1234567
cba
logout' | python3 -m frontend validAcctsListFile.txt oneDayTest\summary3.txt

type oneDayTest\summary1.txt oneDayTest\summary2.txt oneDayTest\summary3.txt > oneDayTest\summary.txt

python3 -m backoffice oneDayTest\masterAccts.txt oneDayTest\summary.txt oneDayTest\masterAccts.txt
validAcctsListFile.txt

cd windowsScripts
```

Windows Batch File oneWeek.bat

```
#!\bin\bash

#Script simulates 5 working days with 3 sessions a day for the quinterac banking system
#Ensure oneWeekReset is run before running this

cd ..

: > oneWeekTest\summary1.txt
: > oneWeekTest\summary2.txt
: > oneWeekTest\summary3.txt
: > oneDayTest\summary.txt
echo '0000000' > validAcctsListFile.txt
: > oneWeekTest\masterAcctsDay0.txt

#Day 1_____
echo 'login
agent
createacct
1234567
aaa
logout' | python3 -m frontend validAcctsListFile.txt oneWeekTest\summary1.txt

echo 'login
agent
createacct
2345678
bbb
logout' | python3 -m frontend validAcctsListFile.txt oneWeekTest\summary2.txt

echo 'login
agent
createacct
3456789
ccc
logout' | python3 -m frontend validAcctsListFile.txt oneWeekTest\summary3.txt

type oneWeekTest\summary1.txt oneWeekTest\summary2.txt oneWeekTest\summary3.txt > oneWeekTest\summary.txt

python3 -m backoffice oneWeekTest\masterAcctsDay0.txt oneWeekTest\summary.txt oneWeekTest\masterAcctsDay1.txt
validAcctsListFile.txt

: > oneWeekTest\summary1.txt
: > oneWeekTest\summary2.txt
: > oneWeekTest\summary3.txt
: > oneDayTest\summary.txt


#Day 2_____
echo 'login
```

```
agent
deposit
1234567
10000
logout' | python3 -m frontend validAcctsListFile.txt oneWeekTest\summary1.txt

echo 'login
machine
deposit
2345678
10000
deposit
2345678
10000
logout' | python3 -m frontend validAcctsListFile.txt oneWeekTest\summary2.txt

echo 'login
machine
deposit
3456789
30000
logout' | python3 -m frontend validAcctsListFile.txt oneWeekTest\summary3.txt

type oneWeekTest\summary1.txt oneWeekTest\summary2.txt oneWeekTest\summary3.txt > oneWeekTest\summary.txt

python3 -m backoffice oneWeekTest\masterAcctsDay1.txt oneWeekTest\summary.txt oneWeekTest\masterAcctsDay2.txt
validAcctsListFile.txt

: > oneWeekTest\summary1.txt
: > oneWeekTest\summary2.txt
: > oneWeekTest\summary3.txt
: > oneDayTest\summary.txt

#Day 3_____
echo 'login
machine
transfer
1234567
5000
2345678
logout' | python3 -m frontend validAcctsListFile.txt oneWeekTest\summary1.txt

echo 'login
agent
transfer
2345678
15000
3456789
logout' | python3 -m frontend validAcctsListFile.txt oneWeekTest\summary2.txt

echo 'login
machine
transfer
3456789
5000
1234567
transfer
3456789
20000
2345678
logout' | python3 -m frontend validAcctsListFile.txt oneWeekTest\summary3.txt

type oneWeekTest\summary1.txt oneWeekTest\summary2.txt oneWeekTest\summary3.txt > oneWeekTest\summary.txt

python3 -m backoffice oneWeekTest\masterAcctsDay2.txt oneWeekTest\summary.txt oneWeekTest\masterAcctsDay3.txt
```

```
validAcctsListFile.txt

: > oneWeekTest\summary1.txt
: > oneWeekTest\summary2.txt
: > oneWeekTest\summary3.txt
: > oneDayTest\summary.txt

#Day 4_____
echo 'login
agent
withdraw
1234567
10000
logout' | python3 -m frontend validAcctsListFile.txt oneWeekTest\summary1.txt

echo 'login
machine
withdraw
2345678
20000
withdraw
2345678
10000
logout' | python3 -m frontend validAcctsListFile.txt oneWeekTest\summary2.txt

echo 'login
machine
withdraw
3456789
20000
logout' | python3 -m frontend validAcctsListFile.txt oneWeekTest\summary3.txt

type oneWeekTest\summary1.txt oneWeekTest\summary2.txt oneWeekTest\summary3.txt > oneWeekTest\summary.txt

python3 -m backoffice oneWeekTest\masterAcctsDay3.txt oneWeekTest\summary.txt oneWeekTest\masterAcctsDay4.txt
validAcctsListFile.txt

: > oneWeekTest\summary1.txt
: > oneWeekTest\summary2.txt
: > oneWeekTest\summary3.txt
: > oneDayTest\summary.txt

#Day 5_____
echo 'login
agent
deleteacct
1234567
aaa
logout' | python3 -m frontend validAcctsListFile.txt oneWeekTest\summary1.txt

echo 'login
agent
deleteacct
2345678
bbb
logout' | python3 -m frontend validAcctsListFile.txt oneWeekTest\summary2.txt

echo 'login
agent
deleteacct
3456789
ccc
logout' | python3 -m frontend validAcctsListFile.txt oneWeekTest\summary3.txt

type oneWeekTest\summary1.txt oneWeekTest\summary2.txt oneWeekTest\summary3.txt > oneWeekTest\summary.txt
```

```
python3 -m backoffice oneWeekTest\masterAcctsDay4.txt oneWeekTest\summary.txt oneWeekTest\masterAcctsDay5.txt
validAcctsListFile.txt

cd windowsScripts
```

One Day Transaction Session

Below, a table showing the set of transaction session inputs for one run of the daily script can be seen. In this daily script, three sessions were implemented. The first session deposited money into the account, the second session withdrew and transferred money from the account, and the third session created a new account, deposited money, and deleted an account. In this way all the different transactions were tested over the course of the "day". The Merged Transaction Summary file from that same daily run can be seen within the table.

Session 1 input	Session 2 input	Session 3 input	Merged Transaction Summary
login machine deposit 1234567 20000 logout	login machine withdraw 1234567 10000 transfer 1234567 30000 7654321 logout	login agent createacct 8888888 abc deposit 7654321 20000 deleteacct 1234567 cba logout	DEP 1234567 20000 0000000 *** EOS WDR 1234567 10000 0000000 *** XFR 1234567 30000 7654321 *** EOS NEW 8888888 000 0000000 abc DEP 7654321 20000 0000000 *** DEL 1234567 000 0000000 cba EOS

Master Accounts Files

Below, a table showing the printout of the Master Accounts File after each of the five daily runs made by the weekly script can be seen.

Day 1	Day 2	Day 3	Day 4	Day 5
1234567 000 aaa 2345678 000 bbb 3456789 000 ccc	1234567 10000 aaa 2345678 20000 bbb 3456789 30000 ccc	1234567 10000 aaa 2345678 30000 bbb 3456789 20000 ccc	1234567 000 aaa 2345678 000 bbb 3456789 000 ccc	

Integration Defect Report

Throughout the integrating and running of the system, no defects or any new problems were uncovered. This is due to the rigorous testing process that was implemented by the group throughout the course of the project. In each of the previous assignments, thorough testing was done to ensure that all of the functionalities were properly implemented, which minimized the amount of regression errors that were uncovered the later assignments.