

**CISC 327: Assignment 6**  
**Team: RKF Solutions**  
**Group Members: David Kubik, Michael Reinhart, Quentin Foster**

**Source Listing (Daily):**

```
import frontend
import backend
import time

def main(list):
    count = 0
    master_transaction_list = list
    for transaction_list in master_transaction_list:
        count = count + 1
        frontend.frontend(transaction_list, count)
        time.sleep(2)

    backend.mergeTSF()
    backend.actions()

main([["1", "createacct 1234567 Sam", "deposit 1234567 9500000", "withdraw 1234567 1000",
"logout"],
      ["1", "createacct 2234567 Josh", "deposit 2234567 9500000",
       "withdraw 2234567 1000", "logout"],
      ["1", "createacct 3234567 James", "deposit 3234567 9050000",
       "withdraw 2234567 10000", "logout"],
      ["2", "deposit 1234567 127474", "transfer 1234567 2234567 300", "withdraw 2234567
10000", "logout"]])
```

**Source Listing (Weekly):**

```
import frontend
import backend
import daily
import time

# This program runs a fill week of sessions with each grouping representing a full day
def main():

    listOfDay = [["1", "createacct 1234567 Sam", "deposit 1234567 9500000", "withdraw
1234567 1000", "logout"],
                  ["1", "createacct 2234567 Josh", "deposit 2234567 9500000", "withdraw 2234567
1000", "logout"],
```

```
["1", "createacct 3234567 James", "deposit 3234567 9050000", "withdraw 2234567  
1000", "logout"]]  
daily.main(listOfDay)
```

```
listOfDay = [["2", "deposit 1234567 15200", "withdraw 1234567 10000", "transfer 1234567  
2234567 1000", "logout"],  
["2", "deposit 3234567 100000", "withdraw 3234567 2000", "transfer 3234567  
2234567 2000", "logout"]]  
daily.main(listOfDay)
```

```
listOfDay = [["1", "createacct 7234567 Phillipss", "deposit 7234567 15200", "transfer  
1234567 2234567 1000", "logout"],  
["2", "deposit 2234567 100000", "withdraw 2234567 200", "transfer 2234567  
1234567 2000", "logout"]]  
daily.main(listOfDay)
```

```
listOfDay = [["1", "deleteacct 3234567 James", "withdraw 1234567 10000", "transfer  
1234567 2234567 1000", "logout"],  
["2", "deposit 1234567 100000", "withdraw 1234567 200", "transfer 1234567 2234567  
2000", "logout"]]  
daily.main(listOfDay)
```

```
listOfDay = [["2", "deposit 1234567 15200", "withdraw 1234567 10000", "transfer 1234567  
2234567 1000", "logout"],  
# ["2", "deposit 1234567 100000", "withdraw 1234567 200", "transfer 1234567  
2234567 2000", "logout"]]  
daily.main(listOfDay)  
main()
```

### **Transaction Session inputs (Daily Script):**

```
"1",  
"createacct 1234567 Sam",  
"deposit 1234567 9500000",  
"withdraw 1234567 1000",  
"logout"
```

```
"1",  
"createacct 2234567 Josh",  
"deposit 2234567 9500000",  
"withdraw 2234567 1000",  
"logout"
```

```
"1",  
"createacct 3234567 James",  
"deposit 3234567 9050000",
```

"withdraw 2234567 10000",  
"logout"

"2",  
"deposit 1234567 127474",  
"transfer 1234567 2234567 300",  
"withdraw 2234567 10000",  
"logout"

### **Merged Transaction Summary file (Daily):**

NEW 1234567 0 0000000 Sam  
DEP 1234567 950000000 0000000 \*\*\*  
WDR 0000000 100000 1234567 \*\*\*  
NEW 2234567 0 0000000 Josh  
DEP 2234567 950000000 0000000 \*\*\*  
WDR 0000000 100000 2234567 \*\*\*  
NEW 3234567 0 0000000 James  
DEP 3234567 905000000 0000000 \*\*\*  
WDR 0000000 1000000 2234567 \*\*\*  
DEP 1234567 12747400 0000000 \*\*\*  
XFR 1234567 30000 2234567 \*\*\*  
WDR 0000000 1000000 2234567 \*\*\*  
EOS

### **Master Accounts File**

#### **Day 1:**

1234567 1912747400 Sam  
2234567 1900030000 Josh  
3234567 1810000000 James

#### **Day 2:**

1234567 2877014800 Sam  
2234567 2850360000 Josh  
3234567 2725000000 James

#### **Day 3:**

1234567 3839962200 Sam  
2234567 3810490000 Josh  
3234567 3630000000 James  
7234567 1520000 Phillipss

**Day 4:**

1234567 4812709600 Sam  
2234567 4760820000 Josh  
3234567 0 James  
7234567 1520000 Phillipss

**Day 5:**

1234567 5786977000 Sam  
2234567 5711150000 Josh  
3234567 9050000000 James  
7234567 1520000 Phillipss

**Integration Defect Report**

<b>Problem</b>	<b>Solution</b>
Frontend wasn't created properly to handle a script's input.	Copied the main function in the frontend and allowed it to take in two parameters
Merging the transaction files	We initially had created this to work in the back end of the banking system. For this assignment, we moved it into the front end.
Backend works well when we're handling a daily transaction file, but not multiple files.	Fixed it
Frontend created one transaction summary file instead of multiple when accepting the input from the script	Implemented a "count" variable that we passed in through the frontend to change the name of the transaction files as they were created.
Writing to multiple daily transaction files	The program was not clearing the transaction summary list after each day and it was concatenating the transactions to each file.