# Loaft Inc.

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# 1) Source Listing:

CISC327-LoaftInc

|--QUINTERAC/Testing/

|      |---integration/integrationTest.java

|      |---backend/backendTest.java

|      |---frontend/frontendTest.java

|--QUINTERAC/src/backend/

|      |---backend.java

|      |---Account.java

|--QUINTERAC/src/frontend/

|      |---frontend/frontend.java

|      |---frontend/Terminal.java

|--QUINTERAC/src/transactionClasses/

|      |---CreateAcct.java

|      |---DeleteAcct.java

|      |---Deposit.java

|      |---Login.java

|      |---Logout.java

|      |---Transaction.java

|      |---Transfer.java

|      |---Withdraw.java

## Daily scripts:

Both daily and weekly scripts were implemented via integrationTest.java, which can be found in the testing directory. 5 daily scripts were written, with each script running 3 separate transaction sessions. The weekly script runs all 5 of these daily scripts in succession. The daily scripts are named as t_in_day1, t_in_day2, etc. These scripts contain a list of strings to be passed in as terminal input. The contents of each daily test is as follows:

- t_in_day1:
  - Create accounts

- t_in_day2:
  - Deposit into these accounts
- t_in_day3:
  - Transfer between these accounts
- t_in_day4:
  - Withdraw from these accounts
- t_in_day5:
  - Delete accounts
  - Withdraw accounts
  - Transfer

## 2) Daily script inputs:

### Day 2:

Transactions being issued:
>> FrontEnd #1
login agent
deposit 1000000 50000
deposit 1000001 100
deposit 9999999 200000
logout
>> FrontEnd #2
login agent
deposit 9999999 9500000
deposit 5000001 320
deposit 8300781 100000
deposit 3030303 671000
deposit 1000002 500
logout
>> FrontEnd #3
login agent
deposit 7777777 8000000
deposit 3030303 500000
deposit 1000003 1500
deposit 5000001 400000
logout

## 3) Corresponding Merged TSF:

### Day 2:
DEP 1000000 50000 0000000 **\***
DEP 1000001 100 0000000 \*
DEP 9999999 200000 0000000 \*
EOS
DEP 9999999 9500000 0000000 \*
DEP 5000001 320 0000000 \*
DEP 8300781 100000 0000000 \*
DEP 3030303 671000 0000000 \*
DEP 1000002 500 0000000 \*
EOS
DEP 7777777 8000000 0000000 \*
DEP 3030303 500000 0000000 \*
DEP 1000003 1500 0000000 \*
DEP 5000001 400000 0000000 \*
EOS
EOS

# 4) Master Accounts Files:

## After day 1:

9999999 0 JohnDoe420
8300781 0 747JonathanBlue
7777777 0 BethanyWhite212
5000001 0 JaneDee69
3030303 0 Walter101Grey
1000003 0 JessicaW
1000002 0 SamirM
1000001 0 LuvitC
1000000 0 TayyabA

## After day 2:

9999999 9700000 JohnDoe420
8300781 100000 747JonathanBlue
7777777 8000000 BethanyWhite212
5000001 400320 JaneDee69
3030303 1171000 Walter101Grey
1000003 1500 JessicaW
1000002 500 SamirM
1000001 100 LuvitC
1000000 50000 TayyabA

## After day 3:

9999999 9530000 JohnDoe420
8300781 107000 747JonathanBlue
7777777 7900000 BethanyWhite212
5000001 400000 JaneDee69
3030303 1064000 Walter101Grey
1000003 61820 JessicaW
1000002 11500 SamirM
1000001 101100 LuvitC
1000000 248000 TayyabA

## After day 4:

9999999 1350000 JohnDoe420
8300781 0 747JonathanBlue
7777777 0 BethanyWhite212
5000001 0 JaneDee69
3030303 0 Walter101Grey
1000003 0 JessicaW
1000002 0 SamirM

1000001 0 LuvitC
1000000 0 TayyabA

After day 5:
1000003 100 JessicaW
1000002 100 SamirM
1000001 100 LuvitC
1000000 100 TayyabA

# 5) Integration Defect Report:

The following errors were found during testing, with an explanation of how it was fixed and updated.

| Detected Defects | Solution |
|---|---|
| Lowercase convert: Converted inputted name to lowercase before splitting (first and last) | Updated the convert case to be done after splitting the name and the trans code, essentially changing the order of operations |
| String split: inputs were not being split correctly for validate master accts. In the case where a name had a number in it, the string would split at these points | If the inputted string is not correct to the format, the system will attempt to gather various arguments after being split based on spaces, if the argument does not exist (there is not enough arguments) the code will throw an error |
| Account Balance cannot be 0: Account was flagged as incorrect due to the account balance being 0. Initially the code checked for numbers that are at least 3 digits, no greater than 99999999, and not a negative number | Checks that the account balance is under the same conditions as previously written with the exception of a value of 0 |
| Withdraw amount in account: User is not allowed to withdraw the exact amount in the account | Allow the user to withdraw the amount in the account or less |