

CISC 327 Course Project

Assignment #6

Weekly Grind

Company: Canada Trust

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(1) Source listing of Daily and Weekly scripts.

Daily Script:

```
1  import java.io.*;
2
3  public class DailyScript{
4
5      public static final InputStream backUp = System.in;
6      public static final String[] validArgs = new String[] { "AccountList", "SummaryFile", "MasterFile", "" };
7
8      public static void main(String args[]){
9
10
11          int days = Integer.parseInt(args[0]);
12
13          for (int i = 1; i < (days + 1); i++){
14              String fileName = "inputFile"+ i + ".txt";
15              ByteArrayInputStream in = new ByteArrayInputStream(readInfo(fileName).getBytes());
16              System.setIn(in);
17
18              try{
19                  validArgs[3] = Integer.toString(i);
20                  Start.main(validArgs);
21              }catch (Exception e){
22                  System.out.println(e);
23              }
24              System.setIn(backUp);
25          }
26      }
27
28
29      public static String readInfo(String name){
30
31          try{
32              BufferedReader br = new BufferedReader(new InputStreamReader(new FileInputStream( name )));
33              String temp = br.readLine();
34              String info = "";
35              while (temp != null){
36
37                  info += temp + "\n";
38                  temp = br.readLine();
39              }
40              System.out.println(info);
41              return info;
42          }catch (Exception e){
43              System.out.println(e);
44          }
45
46          return "";
47      }
48  }
```

Weekly Script:

```
1  javac *.java
2  java DailyScript 5
3  del *.class
4  pause
5  [/code]
```

(2) Printout of the set of transaction session inputs

Session 1 Inputs:

| | | |
|-------------|-------------|-------------|
| day1input1: | day1input2: | day1input3: |
| login | login | login |
| agent | agent | agent |
| createacct | createacct | createacct |
| 1111111 | 2222222 | 3333333 |
| valid1 | valid2 | valid3 |
| logout | logout | logout |

Session 2 Inputs:

| | | |
|-------------|-------------|-------------|
| day2input1: | day2input2: | day2input3: |
| login | login | login |
| agent | machine | machine |
| deposit | deposit | deposit |
| 1111111 | 2222222 | 3333333 |
| 100000 | 100000 | 100000 |
| logout | logout | logout |

Session 3 Inputs:

| | | |
|-------------|-------------|-------------|
| day3input1: | day3input2: | day3input3: |
| login | login | login |
| agent | machine | machine |
| transfer | transfer | transfer |
| 1111111 | 2222222 | 3333333 |
| 2222222 | 3333333 | 1111111 |
| 50000 | 50000 | 50000 |
| logout | logout | logout |

Session 4 Inputs:

| | | |
|-------------|-------------|-------------|
| day4input1: | day4input2: | day4input3: |
| login | login | login |
| agent | machine | machine |
| withdraw | withdraw | withdraw |
| 1111111 | 2222222 | 3333333 |
| 100000 | 100000 | 100000 |
| logout | logout | logout |

Session 5 Inputs:

| | | |
|-------------|-------------|-------------|
| day5input1: | day5input2: | day5input3: |
| login | login | login |
| agent | agent | agent |
| deleteacct | deleteacct | deleteacct |
| 1111111 | 2222222 | 3333333 |
| valid1 | valid2 | valid3 |
| logout | logout | logout |

(3) Printout of the Merged Transaction Summary Files

Session 1 Merged Transaction Summary File 1:

NEW 1111111 000 0000000 valid1
NEW 2222222 000 0000000 valid1
NEW 3333333 000 0000000 valid1
EOS 0000000 000 0000000 ***

Session 2 Merged Transaction Summary File 2:

DEP 1111111 100000 0000000 ***
DEP 2222222 100000 0000000 ***
DEP 3333333 100000 0000000 ***
EOS 0000000 000 0000000 ***

Session 3 Merged Transaction Summary File 3:

XFR 2222222 50000 1111111 ***
XFR 3333333 50000 2222222 ***
XFR 1111111 50000 3333333 ***
EOS 0000000 000 0000000 ***

Session 4 Merged Transaction Summary File 4:

WDR 1111111 100000 0000000 ***
WDR 2222222 100000 0000000 ***
WDR 3333333 100000 0000000 ***
EOS 0000000 000 0000000 ***

Session 5 Merged Transaction Summary File 5:

DEL 1111111 000 0000000 valid1
DEL 2222222 000 0000000 valid2
DEL 3333333 000 0000000 valid3
EOS 0000000 000 0000000 ***

(4) Printout of the Master Accounts Files

Valid Accounts List(Generated by the weekly script):

//is empty before making transactions

Master Accounts File(Generated by the weekly script):

//is empty before making transactions

Session 1: Master Account File 1:

3333333 0 valid3

2222222 0 valid2

1111111 0 valid1

Session 2: Master Account File 2:

3333333 100000 valid3

2222222 100000 valid2

1111111 100000 valid1

Session 3: Master Account File 3:

3333333 100000 valid3

2222222 100000 valid2

1111111 100000 valid1

Session 4: Master Account File 4:

3333333 0 valid3

2222222 0 valid2

1111111 0 valid1

Session 5: Master Account File 5:

// is empty since all account are deleted

(5) Integration defect report.

| Number of Problem | Description | Solution |
|--------------------------|---|--|
| 1 | In A6's description, at least 3 sessions were needed for each daily run of the program. The original program we built wasn't compatible for such sessions. | Therefore the program is modified to be able to create 3 sessions per day to gather all of their summary transaction files into the back office for merging. |
| 2 | In our original design, the daily file remains will be deleted, or covered by another file with the same name. In A6's requirements, all intermediate files were needed for displaying. | Therefore our program has been modified to store all intermediate files as a different name in order to record the content of the old files. |
| 3 | Different front ends share the same valid account list file, and the new file will only be generated after a session is completed. Thus, a problem was discovered such that one account is deleted in a front end, but it still can be manipulated through other front ends in the same session since that information has not entered the valid accounts file yet. | Due to that issue, our program has been modified to check the existence of accounts before any transactions could apply to it. |
| 4 | Our old program wasn't compatible with scripts. However, in A6's requirements, daily and weekly scripts were required to carry out the task automatically. | The scripts are created for running the program automatically. |
| 5 | When we tried to upload our files to the Github, the empty Master Account File and the empty Account List file were unable to upload since they contain nothing. | The weekly script is modified to create an empty Account List File and an empty Master account File to solve this problem. |