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:

```java
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 222222 100000 0000000 ***
WDR 333333 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(Before Running):
//empty
Master Accounts File(Before Running):
//empty

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:
// empty

(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 created for running the program automatically.