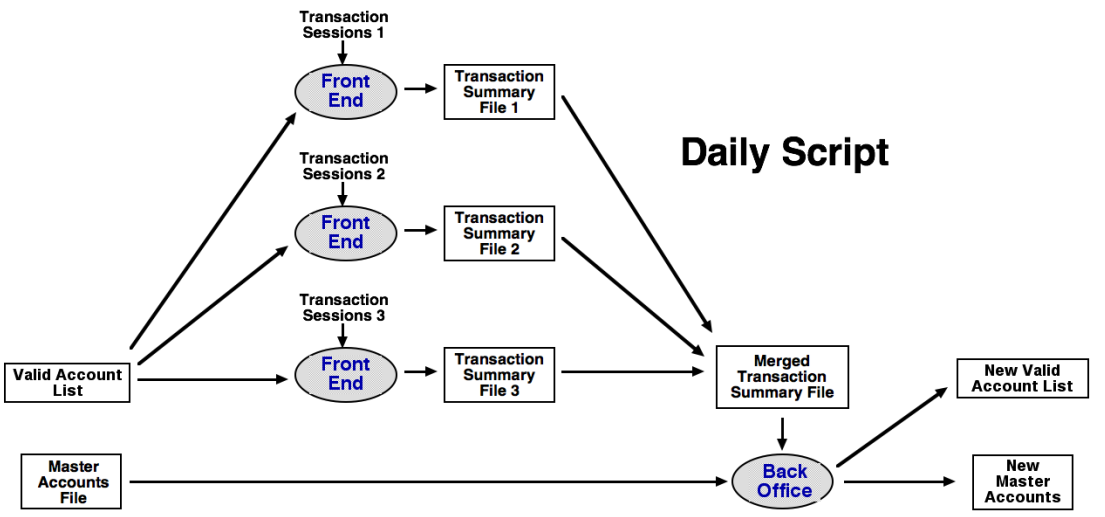
CISC / CMPE 327 - Fall 2019

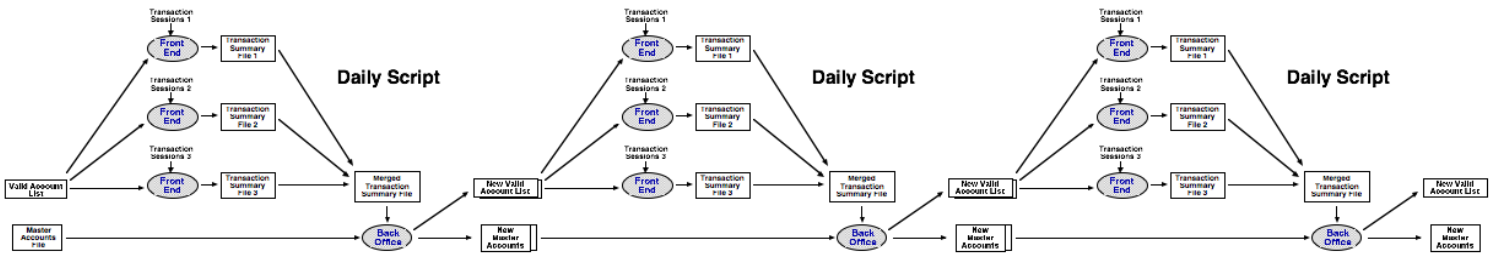
Course Project Assignment #6: Integration and Delivery, or, the Weekly Grind

In this assignment, you will combine your Front End and Back Office into a complete day-to-day banking system.

You will create a “Daily” script or driver program that (i) runs your Front End over a number of transaction sessions (at least three), saving the output Transaction Summary File for each session in a separate file; (ii) concatenates the separate Transaction Summary Files into a Merged Transaction Summary file; (iii) runs your Back Office with the Merged Transaction Summary File as input.



Once you have your Daily script working, you are to write a “Weekly” script that runs the Daily script five separate times, simulating five days of operation. (Doesn't banking happen on weekends too? It does *now*, but it didn't in the old days.) The Weekly script should run a different set of transaction sessions for each of the five days of operation, and the Valid Accounts List and Master Accounts File for each day should be the ones output from the previous day’s Daily run. Begin your Weekly run with an empty Valid Accounts List and an empty Master Accounts File and have the first day’s transaction sessions begin by creating some accounts.



First Three of the Five Steps of the Weekly Script

You may want to use various transaction sessions from your requirements tests (assignment #1) as the transaction sessions to be run on each of your five days. You may want to have some Front End runs be interactive so that you can type in transaction sessions interactively some of the time.

Scripts may be written in any language you like, with the restriction that all files **must** be written out and read as text files by the Front End and Back Office, and the two programs must be invoked **separately** as described above. **Do not** merge the Front End and the Back Office into one program sharing global data structures. (You may find that you want to share some code between both programs. That's fine, as long as both programs meet their respective requirements. But there must be two main programs.)

What to Hand In

First, a **PDF file** containing:

(0) Your team name and all member names.
(1) A source listing of your Daily and Weekly scripts.
(2) A printout of the set of transaction session inputs for one run of your Daily script.
(3) A printout of the Merged Transaction Summary file from that same Daily run.
(4) A printout of the Master Accounts File after each of the five Daily runs made by your Weekly script.
(5) An integration defect report giving a table of any new problems you uncovered while integrating and running your system and what you did about them.

Submit your scripts following the assignment submission instruction.

Also include, in the PDF **or** in a comment in your onQ submission, a **brief** note describing, **for each team member:**

1. estimated hours spent on this assignment by that team member

2. what aspects of the assignment each team member was involved in

Marking Criteria

Assignment #6 will be marked according to the following criteria.

1. Daily and Weekly scripts or driver programs	4 marks
Daily script	
Correctly implements spec and handles files	
Weekly script	
Correctly implements spec and handles files	
2. Transaction session inputs for one Daily run and Merged Transaction Summary file from that run	2 marks
Transaction inputs for multiple sessions as required	
Merged file has correct contents and format	
3. Master Accounts file listings after each of five daily runs	2 marks
Master Accounts file in correct format	
Master Accounts file content flow	
4. Integration Defect Report	2 marks
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Total	10 marks