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

Due 10pm **Friday, November 30th**

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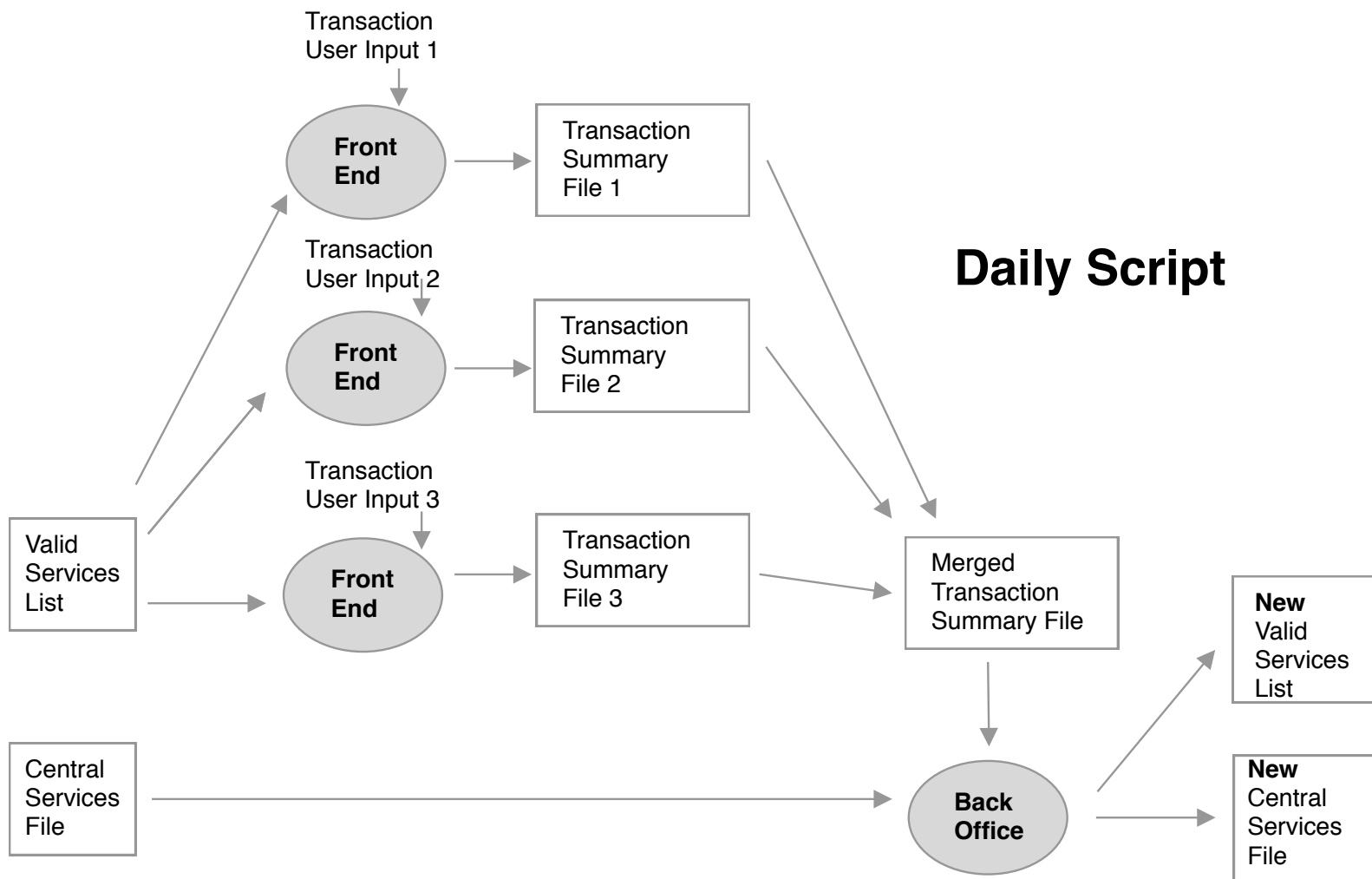


Once you have your Daily script working, you are to write a "Weekly" script that runs the Daily script five separate times, simulating five days of QIES operation. (What about weekends?  We're taking the Hotel Dieu Hospital Pre-Surgical Screening approach: nothing happens on weekends.)  The Weekly script should run a different set of transaction sessions for each of the five days of operation, and the Valid Services List and Central Services File for each day should be the ones output from the previous day's Daily run.  Begin your Weekly run with an empty Valid Services List and an empty Central Services File, and have the first day's transaction sessions begin by creating some services.
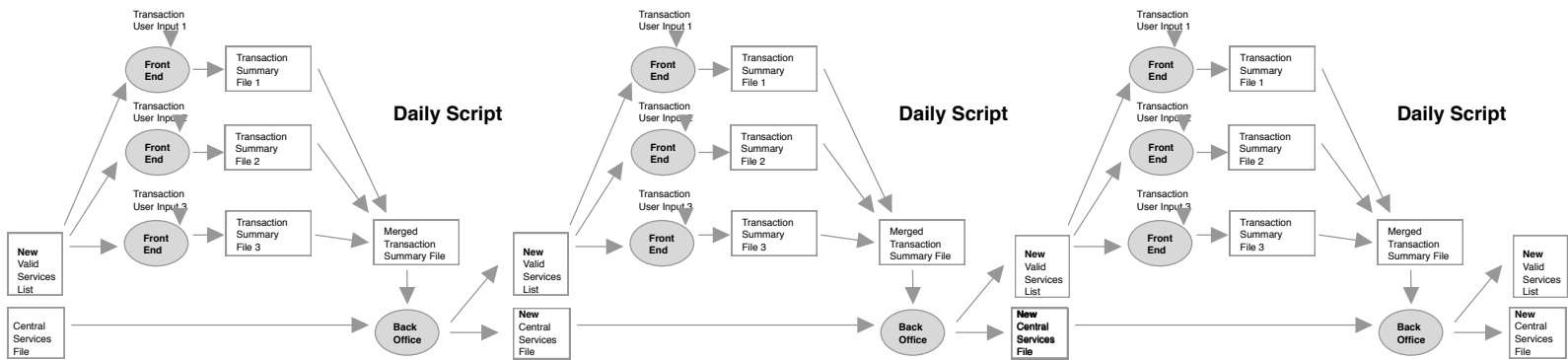
**First Three of the Five Steps of the Weekly Script**

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) Source listings 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 Central Services 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 QIES system and what you did about them.

**Second,** a **.zip file** containing your complete QIES system, including your Front End, Back Office, and all related scripts, with instructions for running them.

**Lastly,** each group member should **separately** fill out the **Project Peer Review** "assignment". **This "assignment" will be posted by November 28th;** we suggest that you start filling it out when it is posted, but don't submit it until your group has submitted A6: your review should reflect your teammates' performance on A6, in addition to all the previous assignments.

(You may recall this sentence from Assignment 0:

*(b) some project marks (potentially, up to 49%) may be assigned individually, and we may consider peer evaluations when determining these individual marks.)*

The peer reviews are due by December 3rd.
   **If you are skimming this document too quickly, Assignment 6 is due November 30th.**

**LATE POLICY:** The late policy is the same as stated on Assignment 4.

**How to Hand In**

As usual, assignments should be handed in via onQ by 10 pm on the due date.

**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. Central Services file listings after each of five daily runs     2 marks
            Central Services file in correct format
            Central Services file content flow


4. Integration Defect Report                                      2 marks

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                **Total**          10 marks