

Quibble, The Queen's Basic Event Ticket Service

Assignment 1: Front-End Requirements

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List of Test Cases and Input / Output Text Files

| Test Number | Purpose | Test Input Files | QUIBBLE Input Files | QUIBBLE Output Files | Test Output Files |
|-------------|---|---|---------------------------|-------------------------------|--|
| 1 | Check that login command (sales case) is accepted | <i>t1in.txt</i> login sales logout | Empty current events file | Empty daily transactions file | <i>t1out.txt</i> test 1 success logged out |
| 2 | Check that login command (admin case) is accepted | <i>t2in.txt</i> login admin logout | Empty current events file | Empty daily transactions file | <i>t2out.txt</i> test 2 success logged out |
| 3 | Check that no command is accepted before a login command | <i>t3in.txt</i> logn | N/A | N/A | <i>t3out.txt</i> test 3 success invalid login command – try again |
| 4 | Check that no command except "sales" or "admin" is accepted after a login command | <i>t4in.txt</i> login salesadmin | N/A | N/A | <i>t4out.txt</i> test 4 success invalid account type - try again |
| 5 | Check that a login command is accepted more than once, if there is a logout command between the two | <i>t5in.txt</i> login sales logout login admin logout | Empty current events file | Empty daily transactions file | <i>t5out.txt</i> test 5 success logged out |
| 6 | Check that “create event” transaction is rejected during a sales login | <i>t6in.txt</i> login sales create | Empty current events file | Empty daily transactions file | <i>t6out.txt</i> test 6 success unauthorized transaction – try again |
| 7 | Check that “add tickets” transaction is rejected during a sales login | <i>t7in.txt</i> login sales add | Empty current events file | Empty daily transactions file | <i>t7out.txt</i> test 7 success unauthorized transaction – try again |
| 8 | Check that “delete event” transaction is rejected during a sales login | <i>t8in.txt</i> login sales delete | Empty current events file | Empty daily transactions file | <i>t8out.txt</i> test 8 success unauthorized transaction – try again |
| 9 | Check that “sell” command is functional during a sales login | <i>t9in.txt</i> login sales sell | Empty current events file | Empty daily transactions file | <i>t9out.txt</i> test 9 success enter event name |
| 10 | Check that “return” command is functional during a sales login | <i>t10in.txt</i> login sales return | Empty current events file | Empty daily transactions file | <i>t10out.txt</i> test 10 success enter event name |

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|----|--|---|---------------------------|---------------------------------|--|
| 11 | Check that “create event” transaction command is valid during an admin login | <i>t11in.txt</i> login admin create | Empty current events file | Empty daily transactions file | <i>t11out.txt</i> test 11 success enter event name |
| 12 | Check that “add tickets” transaction command is valid during an admin login | <i>t12in.txt</i> login admin add | Empty current events file | Empty daily transactions file | <i>t12out.txt</i> test 12 success enter event name |
| 13 | Check that “delete event” transaction is valid during an admin login | <i>t13in.txt</i> login admin delete | Empty current events file | Empty daily transactions file | <i>t13out.txt</i> test 13 success enter event name |
| 14 | Check that “sell tickets” transaction is valid during an admin login | <i>t14in.txt</i> login admin sell | Empty current events file | Empty daily transactions file | <i>t14out.txt</i> test 14 success enter event name |
| 15 | Check that “return tickets” transaction is valid during an admin login | <i>t15in.txt</i> login admin return | Empty current events file | Empty daily transactions file | <i>t15out.txt</i> test 15 success enter event name |
| 16 | Check that any invalid transaction command is rejected during an admin login | <i>t16in.txt</i> login admin buytickets | Empty current events file | Empty daily transactions file | <i>t16out.txt</i> test 16 success invalid input - try again |
| 17 | Check that after creating an event and naming it, the user is prompted for the event date | <i>t17in.txt</i> login admin create Party | Empty current events file | Empty daily transactions file | <i>t17out.txt</i> test 17 success enter event date |
| 18 | Check that after naming a newly created event, the user is prompted for the number of tickets | <i>t18in.txt</i> login admin create Party 151201 | Empty current events file | Empty daily transaction file | <i>t18out.txt</i> test 18 success enter number of tickets |
| 19 | Check that after entering the number of tickets for a newly created event, the event is saved in the daily current events file upon logout | <i>t19in.txt</i> login admin create Party 151201 10 logout | Empty current events file | 03_Party _151201_00010 00 | <i>t19out.txt</i> test 19 success logged out |
| 20 | Check that event names of more than 20 characters are rejected | <i>t20in.txt</i> login admin create PartyLongNameABCDE | Party _00010 | Empty daily transaction file | <i>t20out.txt</i> test 20 success invalid event name – try again |

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| 21 | Check that a new event name is rejected if it already appears in the current events file | <i>t21in.txt</i> login admin create Party | Party _00010 | Empty daily transaction file | <i>t21out.txt</i> test 21 success invalid event name – try again |
| 22 | Check that a new event cannot be created for a date earlier than the one immediately following today's date | <i>t22in.txt</i> login admin create Party2 *today's date* | Party _00010 | Empty daily transaction file | <i>t22out.txt</i> test 22 success event must be scheduled between tomorrow and 2 years from today – try again |
| 23 | Check that a new event cannot be created for a date more than 2 years from today's date | <i>t23in.txt</i> login admin create Party2 181231 | Party _00010 | Empty daily transaction file | <i>t23out.txt</i> test 23 success event must be scheduled between tomorrow and 2 years from today – try again |
| 24 | Check that a new event cannot be created with less than 1 ticket for sale | <i>t24in.txt</i> login admin create Party2 151202 0 | Party _00010 | Empty daily transaction file | <i>t24out.txt</i> test 24 success event must have between 1 and 99999 tickets for sale – try again |
| 25 | Check that a new event cannot be created with more than 99999 tickets for sale | <i>t25in.txt</i> login admin create Party2 151202 100000 | Party _00010 | Empty daily transaction file | <i>t25out.txt</i> test 25 success event must have between 1 and 99999 tickets for sale – try again |
| 26 | Check that after a user has entered an event to add tickets to, they are prompted for the number of tickets | <i>t26in.txt</i> login admin add Party | Party _00010 | Empty daily transaction file | <i>t26out.txt</i> test 26 success enter number of tickets |
| 27 | Check that after adding tickets to an existing event, the change is saved in the daily current events file upon logout | <i>t27in.txt</i> login admin add Party 10 logout | Party _00010 | 04_Party _151201_10 00 | <i>t27out.txt</i> test 27 success logged out |
| 28 | Check that the user cannot add tickets to an event that does not already exist | <i>t28in.txt</i> login admin add Party3 | Party _00020 | Empty daily transaction file | <i>t28out.txt</i> test 28 success event does not exist – try again |

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|----|---|--|-----------------|------------------------------|---|
| 29 | Check that the user cannot add less than 1 ticket to an event | <i>t29in.txt</i> login admin add Party 0 | Party _00020 | Empty daily transaction file | <i>t29out.txt</i> test 29 success invalid number of tickets – try again |
| 30 | Check that the user cannot add tickets such that there are more than 99999 available for an event | <i>t30in.txt</i> login admin add Party 99980 | Party _00020 | Empty daily transaction file | <i>t30out.txt</i> test 30 success invalid number of tickets – try again |
| 31 | Check that the sell function works. | <i>t31in.txt</i> login sales sell Party, 3, logout | Party _00020 | Empty daily transaction file | <i>t31out.txt</i> test 31 success logged out |
| 32 | Check sell function constraints (event name) | <i>t32in.txt</i> login sales, sell, Party | Party _00020 | Empty daily transaction file | <i>t32out.txt</i> test 32 success Invalid command – try again |
| 33 | Check sell function constraints (# of tickets) | <i>t33in.txt</i> login, sales, sell, Party, 9 | Party _00020 | Empty daily transaction file | <i>t33out.txt</i> test 33 success Invalid command – try again |
| 34 | Check admin sell function (remaining tickets, successful) | <i>T34in.txt</i> Login Admin Sell Party 100 logout | Party _00020 | Empty daily transaction file | <i>t34out.txt</i> test 34 success Logged out |
| 35 | Check admin sell function (remaining tickets, failure) | <i>T35in.txt</i> login, admin, sell, Party, 101 | Party _00020 | Empty daily transaction file | <i>t35out.txt</i> test 35 success Invalid Command – Try again |
| 36 | Check sell function constraints (# of tickets) | <i>T36in.txt</i> login, sales, sell, Party, 9 | Party _00020 | Empty daily transaction file | <i>t36out.txt</i> test 36 success Invalid Command – Try Again |

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|----|---|--|-----------------|---------------------------------|---|
| 37 | Check admin sell function (remaining tickets, successful) | T37in.txt login, admin, sell, Party, 100, logout | Party _00020 | Empty daily transaction file | t37out.txt test 37 success Logged Out |
| 38 | Check admin sell function (remaining tickets, failure) | T38in.txt login, admin, sell, Party, 101 | Party _00020 | Empty daily transaction file | t38out.txt test 38 success Invalid Command – Try Again |
| 39 | Check sell function constraint (remaining tickets) | T39in.txt login, sales, sell, Party, 5 | Party _00020 | Empty daily transaction file | t39out.txt test 39 success Invalid Command – Try Again |
| 40 | Check sell function (garbage input) | T40in.txt login, sales, sell, !@#! | Party _00020 | Empty daily transaction file | T40out.txt test 40 success Invalid Command – Try Again |
| 41 | Check sell function (garbage input) | T41in.txt login, sales, sell, Party, !@#! | Party _00020 | Empty daily transaction file | T41out.txt test 41 success Invalid Command – Try Again |
| 42 | Check sell function of created event of that day | T42in.txt login, admin, create, Party 2, sell, Party | Party _00020 | Empty daily transaction file | T42out.txt test 42 success Invalid Command – Try Again |
| 43 | Check sell function (garbage input) | T43in.txt login, admin, sell, !@#! | Party _00020 | Empty daily transaction file | T43out.txt test 43 success Invalid Command – Try Again |
| 44 | Check sell function (garbage input) | T44in.txt login, admin, sell, Party, !@#! | Party _00020 | Empty daily transaction file | T44out.txt test 44 success Invalid Command – Try Again |
| 45 | Check that return function works | T45in.txt login, sales, return, | Party _00020 | Empty daily transaction file | T45out.txt test 45 success Logged Out |

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|----|---|--|-----------------|------------------------------|--|
| | | Party, 3, logout | | | |
| 46 | Check return function constraints (event name) | T46in.txt login, sales, return, Paty | Party _00020 | Empty daily transaction file | T46out.txt test 46 success Invalid Command – Try Again |
| 47 | Check return function constraints (# of tickets) | T47in.txt login, sales, return, Party, 9, | Party _00020 | Empty daily transaction file | T47out.txt test 47 success Invalid Command – Try Again |
| 48 | Check return function constraints (remaining # tickets) | T48in.txt login, sales, return, Party, 5 | Party _00020 | Empty daily transaction file | T4out.txt test 48 success Invalid Command – Try Again |
| 49 | Check admin return function (remaining tickets, succes) | T49in.txt login, admin, return, Party, 500, logout | Party _00020 | Empty daily transaction file | T49out.txt test 49 success Logged out |
| 50 | Check admin return function (remaining tickets, low bound) | T50in.txt login, admin, return, Party, -1 | Party _00020 | Empty daily transaction file | T50out.txt test 50 success Invalid Command – Try Again |
| 51 | Check admin return function (remaining tickets, high bound) | T51in.txt login, admin, return, Party, 100000 | Party _00020 | Empty daily transaction file | T51out.txt test 51 success Invalid Command – Try Again |
| 52 | Check return function (garbage input, sales) | T52in.txt login, sales, return, @#!@ | Party _00020 | Empty daily transaction file | T52out.txt test 52 success Invalid Command – Try Again |
| 53 | Check return function (garbage input, sales) | T53in.txt login, sales, return, Party, !@#! | Party _00020 | Empty daily transaction file | T53out.txt test 53 success Invalid Command – Try Again |

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|----|--|--|-----------------|---------------------------------|--|
| 54 | Check return function (garbage input, admin) | <i>T54in.txt</i> login, admin, return, @#!@ | Party _00020 | Empty daily transaction file | <i>T54out.txt</i> test 54 success Invalid Command – Try Again |
| 55 | Check return function (garbage input, admin) | <i>T55in.txt</i> login, admin, return, Party, !@#! | Party _00020 | Empty daily transaction file | <i>T55out.txt</i> test 55 success Invalid Command – Try Again |
| 56 | Check that delete function works | <i>T56in.txt</i> login, a dmin, delete, Party, logout | Party _00020 | Empty daily transaction file | <i>T56out.txt</i> test 56 success Logged Out |
| 57 | Check delete function is privileged | <i>T57in.txt</i> login, sales, delete | Party _00020 | Empty daily transaction file | <i>T57out.txt</i> test 57 success Invalid Command – Try Again |
| 58 | Check delete function constraints (event name) | <i>T58in.txt</i> login, admin, delete, Party25 | Party _00020 | Empty daily transaction file | <i>T58out.txt</i> test 58 success Invalid Command – Try Again |
| 59 | Check delete function constraints (event name) | <i>T59in.txt</i> login, admin, delete, 12312 | Party _00020 | Empty daily transaction file | <i>T59out.txt</i> test 59 success Invalid Command – Try Again |
| 60 | Check delete function constraints (event after delete) | <i>T60in.txt</i> login, admin, delete, Party, sell | Party _00020 | Empty daily transaction file | <i>T60out.txt</i> test 60 success Invalid Command – Try Again |
| 61 | check delete function constraints (garbage input) | <i>T61in.txt</i> login, admin, delete, Party, !#@! | Party _00020 | Empty daily transaction file | <i>T61out.txt</i> test 61 success Invalid Command – Try Again |

As per the Assignment guidelines, please find in the table above:

1) List of all test cases and their descriptions

And

2) For each test case, the actual test input file and expected output file.

We decided to merge these two together, with the 3rd column being the actual test input file, and the 6th column being the expected output file for the given test case.

TEST PLAN

We will organize our test cases into folders, divided by which front-end transaction code they correspond to. The list of folders is as follows:

- Basic (*for login/logout tests*)
Test cases: 1-5, 16
- create
Test cases: 6, 11, 17-25
- add
Test cases: 7, 12, 26-30
- delete
Test cases: 8, 13, 56-61
- sell
Test cases: 9, 14, 31-44
- return
Test cases: 10, 15, 45-55

We will put our individual test cases into these folders. Each test case will itself be contained in a folder, where each sub-folder contains the data from one full test case (as itemized in the list above). For example, the test path and folder contents for test case #1 would look like:

```
./basic/t1 {  
    t1in.txt  
    t1out.txt  
    currentEventsIn.txt  
    dailyTransactionRecord.txt  
}
```

Note that it contains test input and output files (conveniently stored for later reference), the current events file as read in by the Quibble program before a session, and the daily events transaction file as outputted by the Quibble program after a session.

We will use a Windows batch file to help automate our testing. It will cycle through the supplied t_in.txt files in each of the folders above, and run the Quibble program using each of them as input. Then, it will open each generated t_out.txt file for us to inspect for correctness (where the correct t_out.txt contents are recorded in the “List of Test Cases” table above).

PROBLEMS WITH THE REQUIREMENTS

- The requirements do not specify if multiple transactions can be made on a single “login” event.
- In the requirements, it says that upon logout, an event transaction file will be written for the day – which is then defined as all transactions that occurred in the session. It seems illogical to only account for a single user session per day.
- The definition of ‘session’ seems vague. In some cases a session is referred to as a simple login/logout action, in other places it is defined as something that only happens once per day.
- If a session refers to each time a person logs out, and an event is created in one session, no other sessions on that day will be able to edit/buy/return tickets to/from that event.