<u>Test Organization</u>
->root
  ->project
  ->test_cases
    ->login
      ->TCLI1
        ->TCLI1.in
        ->TCLI1.out
      ->TCLI2
        ->TCLI2.in
        ->TCLI2.out
      ->TCLI3
        ->TCLI3.in
        ->TCLI3.out
      ->TCLI4
        ->TCLI4.in
        ->TCLI4.out
      ->TCLI5
        ->TCLI5.in
        ->TCLI5.out
      ->TCLI6
        ->TCLI6.in
        ->TCLI6.out
      ->TCLI7
        ->TCLI7.in
        ->TCLI7.out
      ->TCLI8
        ->TCLI8.in
        ->TCLI8.out
      ->TCLI9
        ->TCLI9.in
        ->TCLI9.out
      ->TCLI10
        ->TCLI10.in
        ->TCLI10.out
      ->TCLI11
        ->TCLI11.in
        ->TCLI11.out

    ->logout
      ->TCLO1
        ->TCLO1.in
        ->TCLO1.out
      ->TCLO2

```
                    ->TCLO2.in
                    ->TCLO2.out
          ->TCLO3
                    ->TCLO3.in
                    ->TCLO3.out
          ->TCLO4
                    ->TCLO4.in
                    ->TCLO4.out
          ->TCLO5
                    ->TCLO5.in
                    ->TCLO5.out
->create
          ->TCCR1
                    ->TCCR1.in
                    ->TCCR1.out
          ->TCCR2
                    ->TCCR2.in
                    ->TCCR2.out
          ->TCCR3
                    ->TCCR3.in
                    ->TCCR3.out
          ->TCCR4
                    ->TCCR4.in
                    ->TCCR4.out
          ->TCCR5
                    ->TCCR5.in
                    ->TCCR5.out
          ->TCCR6
                    ->TCCR6.in
                    ->TCCR6.out
          ->TCCR7
                    ->TCCR7.in
                    ->TCCR7.out
          ->TCCR8
                    ->TCCR8.in
                    ->TCCR8.out
          ->TCCR9
                    ->TCCR9.in
                    ->TCCR9.out
          ->TCCR10
                    ->TCCR10.in
                    ->TCCR10.out
          ->TCCR11
                    ->TCCR11.in
```

```
                    ->TCCR11.out
          ->TCCR12
                    ->TCCR12.in
                    ->TCCR12.out
          ->TCCR13
                    ->TCCR13.in
                    ->TCCR13.out
          ->TCCR14
                    ->TCCR14.in
                    ->TCCR14.out
          ->TCCR15
                    ->TCCR15.in
                    ->TCCR15.out
          ->TCCR16
                    ->TCCR16.in
                    ->TCCR16.out
          ->TCCR17
                    ->TCCR17.in
                    ->TCCR17.out
          ->TCCR18
                    ->TCCR18.in
                    ->TCCR18.out
          ->TCCR19
                    ->TCCR19.in
                    ->TCCR19.out
->sell

          ->TCSEI1
                    ->TCSE1.in
                    ->TCSE1.out
          ->TCSE2
                    ->TCSE2.in
                    ->TCSE2.out
          ->TCSE3
                    ->TCSE3.in
                    ->TCSE3.out
          ->TCSE4
                    ->TCSE4.in
                    ->TCSE4.out
          ->TCSE5
                    ->TCSE5.in
                    ->TCSE5.out
          ->TCSE6
                    ->TCSE6.in
```

```
                        ->TCSE6.out
            ->TCSE7
                        ->TCSE7.in
                        ->TCSE7.out
            ->TCSE8
                        ->TCSE8.in
                        ->TCSE8.out
            ->TCSE9
                        ->TCSE9.in
                        ->TCSE9.out
            ->TCLI10
                        ->TCSE10.in
                        ->TCSE10.out


->refund
            ->TCR1
                        ->TCR1.in
                        ->TCR1.out
            ->TCR2
                        ->TCR2.in
                        ->TCR2.out
            ->TCR3
                        ->TCR3.in
                        ->TCR3.out
            ->TCR4
                        ->TCR4.in
                        ->TCR4.out
            ->TCR5
                        ->TCR5.in
                        ->TCR5.out
            ->TCR6
                        ->TCR6.in
                        ->TCR6.out
            ->TCR7
                        ->TCR7.in
                        ->TCR7.out
            ->TCR8
                        ->TCR8.in
                        ->TCR8.out
            ->TCR9
                        ->TCR9.in
                        ->TCR9.out
            ->TCR10
```

```
                        ->TCR10.in
                        ->TCR10.out
              ->TCR11
                        ->TCR11.in
                        ->TCR11.out
              ->TCR12
                        ->TCR12.in
                        ->TCR12.out
              ->TCR13
                        ->TCR13.in
                        ->TCR13.out
              ->TCR14
                        ->TCR14.in
                        ->TCR14.out
     ->add_credit
              ->TCAC1
                        ->TCAC1.in
                        ->TCAC1.out
              ->TCAC2
                        ->TCAC2.in
                        ->TCAC2.out
              ->TCAC3
                        ->TCAC3.in
                        ->TCAC3.out
              ->TCAC4
                        ->TCAC4.in
                        ->TCAC4.out
              ->TCAC5
                        ->TCAC5.in
                        ->TCAC5.out
              ->TCAC6
                        ->TCAC6.in
                        ->TCAC6.out
              ->TCAC7
                        ->TCAC7.in
                        ->TCAC7.out
              ->TCAC8
                        ->TCAC8.in
                        ->TCAC8.out
              ->TCAC9
                        ->TCAC9.in
                        ->TCAC9.out
     ->buy
              ->TCBU1
```

```
            ->TCBU1.in
            ->TCBU1.out
      ->TCBU2
            ->TCBU2.in
            ->TCBU2.out
      ->TCBU3
            ->TCBU3.in
            ->TCBU3.out
      ->TCBU4
            ->TCBU4.in
            ->TCBU4.out
      ->TCBU5
            ->TCBU5.in
            ->TCBU5.out
      ->TCBU6
            ->TCBU6.in
            ->TCBU6.out
      ->TCBU7
            ->TCBU7.in
            ->TCBU7.out
      ->TCBU8
            ->TCBU8.in
            ->TCBU8.out
      ->TCBU9
            ->TCBU9.in
            ->TCBU9.out
      ->TCBU10
            ->TCBU10.in
            ->TCBU10.out
      ->TCBU11
            ->TCBU11.in
            ->TCBU11.out
      ->TCBU12
            ->TCBU12.in
            ->TCBU12.out
      ->TCBU13
            ->TCBU13.in
            ->TCBU13.out
->delete
      ->TCD1
            ->TCD1.in
            ->TCD1.out
      ->TCD2
            ->TCD2.in
```

```
                ->TCD2.out
        ->TCD3
                ->TCD3.in
                ->TCD3.out
        ->TCD4
                ->TCD4.in
                ->TCD4.out
        ->TCD5
                ->TCD5.in
                ->TCD5.out
        ->TCD6
                ->TCD6.in
                ->TCD6.out
        ->TCD1
                ->TCD1.in
                ->TCD1.out
        ->TCD7
                ->TCD7.in
                ->TCD7.out
        ->TCD8
                ->TCD8.in
                ->TCD8.out
        ->TCD9
                ->TCD9.in
                ->TCD9.out
        ->TCD10
                ->TCD10.in
                ->TCD10.out
        ->TCD11
                ->TCD11.in
                ->TCD11.out
        ->TCD12
                ->TCD12.in
                ->TCD12.out
        ->TCD13
                ->TCD13.in
                ->TCD13.out
        ->TCD14
                ->TCD14.in
                ->TCD14.out
->list
        ->TCLS1
                ->TCLS1.in
                ->TCLS1.out
```

```
            ->TCLS2
                    ->TCLS2.in
                    ->TCLS2.out
            ->TCLS3
                    ->TCLS3.in
                    ->TCLS3.out
->scripts
    ->login
    ->logout
            ->logout_script.sh
            ->logout_test_results
                    ->test_LO_1.txt
                    ->cont…
    ->create
            ->create_script.sh
            ->create_test_results
                    ->test_CCR_1.txt
                    ->cont…
    ->sell
    ->refund
            ->refund_script.sh
            ->refund_test_results
                    ->test_R_1.txt
                    ->cont…
    ->add_credit
            ->addcredit_script.sh
            ->addcredit_test_results
                    ->test_AC_1.txt
                    ->cont…
    ->buy
            ->buy_script.sh
            ->buy_test_results
                    ->test_BU_1.txt
                    ->cont…
    ->delete
            ->delete_script.sh
            ->delete_test_results
                    ->test_DL_1.txt
                    ->cont…
    ->list
            ->list_script.sh
            ->list_test_results
                    ->test_LS_1.txt
                    ->cont…
```

->test_plan_document.pdf
->project_requirements.pdf

Our github repository will be organized with two main directories. From the root, there will be a directory labeled "project", which will contain the main source code for the front end portion of the project. All of our .cpp/.h files will be contained within the "project" directory.

Another directory labeled "test_cases" will house all test case input and output files. Inside the "test_cases" directory there will be nine subdirectories, each for a corresponding transaction code command (login, create, buy, etc.). Each of these directories will contain numerous subdirectories containing all test cases related to the transaction command, along with a short description of the test case purpose (ex: TCLO5 - Checking Transaction Code Input). Each of these TC-labeled directories will have a corresponding input and output file inside, representing the expected input and output of the corresponding test case (ex: TCLO1.in and TCLO1.out).

A third directory from the root titled "scripts" will house all related test case scripts. We will be creating shell scripts to run our test cases. Similar to the "test_cases" directory, there will be nine subdirectories corresponding to each transaction code command. Within these directories there will be two items. One will be the shell script that will execute all test cases for that specific transaction command (titled "<transaction code>_script.sh"), and the other will be a directory (titled <transaction code>_test_results) that the script results will write text file outputs to. These directories will have multiple .txt files (test_R_1.txt, test_LS_1.txt, etc.) which will contain any output/feedback regarding the execution of the script. These .txt files will all have a unique ID to distinguish them from each other, and are labeled according to their transaction code.

Lastly, any important documents from current and future phases will be uploaded to the repository at the root (as .pdf files), outside of any directories for referencing purposes. (project requirements, test plan document, etc.).