**Phase 5 – Tests:**

For BackEndTest:

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| **Test:** | **Test Intention:** | **Test results:** | **Changes (if any):** |
| testMain1() | Testing for proper input to the BackEnd, without any errors. Also tests for proper input to readDTF() | BackEnd successfully ran without errors outputted (Improper statements from DTF, UAF or ATF not counting) | Modified the main method to take in arguments just so we can perform this test |
| testMain2() | Testing for proper input to the BackEnd, without any errors. Also tests for proper input to readDTF() | BackEnd successfully ran without errors outputted (Improper statements from DTF, UAF or ATF not counting) | N/A |
| testMain3() | Testing for proper input to the BackEnd, mainly for proper inputs to readATF(); | BackEnd successfully ran without errors outputted | N/A |
| testReadDTF() | Test for improper input to readDTF() by making it search for a file that doesn’t exist | BackEnd outputted an error indicating an error in reading files and successfully outputted an error | Modified readDTF() method to require an argument that indicates what to search for the sake of testing |
| testReadUAF() | Test for improper input to readUAF() by making it search for a file that doesn’t exist | BackEnd outputted an error indicating an error in reading files from readUAF and successfully outputted an error | Modified readUAF() method to require an argument that indicates what to search for the sake of testing |
| testReadATF() | Test for improper input to readATF() by making it search for a file that doesn’t exist | BackEnd outputted an error indicating an error in reading files from readATF and successfully outputted an error | Modified readATF() method to require an argument that indicates what to search for the sake of testing |

For MakeNewFilesTest:

Note: All tests for errors using incorrect inputs also covers the error log tests for coverage

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| **Test:** | **Test Intention:** | **Test Results:** | **Changes (if any):** |
| testApplyTransactions1() | Testing for proper input to the create method | Create method successfully created a new user account and wrote it to UAF | N/A |
| testApplyTransactions2() | Testing for improper input to the create method | Create method successfully outputted an error, indicating what went wrong | N/A |
| testApplyTransactions3() | Testing for proper input to the delete method | Delete method deleted every account as opposed to just the specified user account | Changed the parsing of the string input and changed the iterator in the method to actually just delete the one specified username as opposed to everything |
| testApplyTransactions4() | Testing for improper input to the delete method | Delete method successfully outputted an error, indicating that the account does not exist | N/A |
| testApplyTransactions5() | Testing for proper input to the sell method | Sell method did not successfully create a new sell event and did not write to the ATF despite the input being correct. | Changed the check for existing sell event to check for the entire string as opposed to just checking the first few characters. Example: “test” would be considered the same as “testevent” |
| testApplyTransactions6() | Testing for improper input to the sell method | Sell method successfully outputted an error indicating that an event already exists with that name. | N/A |
| testApplyTransactions7() | Testing for proper input to the buy method | Buy method performed successfully with the transactions being made on the user accounts and available tickets | N/A |
| testApplyTransactions8() | Testing for improper input to the buy method (Event not existing) | Buy method successfully outputted an error indicating that event does not exist | N/A |
| testApplyTransactions9() | Testing for improper input to the buy method (Not enough tickets) | Buy method successfully outputted an error indicating that there are not enough tickets | N/A |
| testApplyTransactions10() | Testing for proper input to the refund method | Refund method successfully performed its transaction | N/A |
| testApplyTransactions11() | Testing for improper input to the refund method | Refund successfully outputted an error, indicating not enough credits for the transaction | N/A |
| testApplyTransactions12() | Testing for proper input to the AddCredit method | AddCredit successfully performed its transaction | N/A |
| testApplyTransactions13() | Testing for improper input to the AddCredit method (user does not exist) | AddCredit successfully outputted an error indicating that the user does not exist | N/A |
| testApplyTransactions14() | Testing for proper input for Logout | Logout successfully performed its method by updating UAF and ATF | N/A |
| testApplyTransactions15() | Testing for improper input for Logout (Format wise) | No error checking was present for logout. After implementing that, logout outputted an error indicating the incorrect format | Added a check in logout for incorrect username and format. |
| testWriteToUAF1() | Testing for correct UAF input | Method returned true, indicating that it performed writing to file successfully. | Modified method such that it would take in an argument for the filename to be written in. |
| testWriteToUAF2() | Testing for incorrect UAF input by providing a wrong filename | Method successfully returned false, indicating that it did not write to the file specified. | N/A |
| testWriteToATF1() | Testing for correct ATF input | Method successfully returned true, indicating that it was successful in writing to file | Modified method such that it would take in an argument for the filename to be written in. |
| testWriteToATF2() | Testing for incorrect ATF input by providing a wrong filename | Method successfully returned false, indicating that it did not write to the file specified. | N/A |