

### Test Plan Document

Our tests will be organized into folders which will be labeled based on the type of functionality that the group of tests will be intended for. For example, we will have subfolders in our test folder for login, logout, create an account, etc. organized into front-end and back-end test folders. In these folders, we will have the documents that outline each test for that specific functionality. The tests will be created in those folders in the form of Python scripts and will be made in accordance with the individual test specifications. For example, there will be a folder called login which contains a .pdf that outlines 7 unique login tests and therefore included in this folder will be 7 Python scripts one for each test.

Each test script will run a series of tests with given inputs and will compare its produced output against expected outputs to validate whether the test was successful or not. There will then be a bash script in this folder to automate the running of all these test scripts and will be providing the terminal input to tests that require terminal input. The bash script will then produce a summary in the form of a text file of which tests in the file were successful and which failed. This will make the testing of each component isolated from the testing of others and easy to see where potential errors are from.

All test cases found below as well as in individual folders

### Login Tests

- These tests revolve around the process of the user logging into the program
- Tests T1-T6 involve the user logging in and test T7 happens after the login has happened
- Handles an error of any command being used before logging in
- No files are outputted from these functions since no transactions are completed

Test #	Desc	Purpose	Input	Input Files	Output Files	Terminal Output
T1	login command, ATM case	Check that login is accepted	login ATM	VAF with no accounts	None	Empty, or possibly information messages in response to commands
T2		Check that login accepted and reads in valid account list	login ATM	VAF with non-zero amount of accounts	None	Empty, or possibly information messages in response to commands
T3	login command, Agent case	Check that login is accepted	login agent	VAF with no accounts	None	Empty, or possibly information messages in response to commands
T4		Check that login accepted and reads in valid account list	login agent	VAF with non-zero amount of accounts	None	Empty, or possibly information messages in response to commands
T5	Invalid type of session command	Check that correct input is used for type of session. Reinquire upon type of session user needs	login bank ATM/agent	Valid accounts file	None	Error message telling the user to reinput the type of session they require
T6	Any alternative command before login command	Check that no other command is accepted before the login command	logout, withdraw, deposit, transfer, etc	Valid accounts file	None	Error message telling the user they must login before other commands
T7	Subsequent login before logout	Reject the users attempt to login when already logged in	login ATM login	Valid accounts file	None	Error message in regards to the users attempt to subsequently login twice

Login Tests Input/Output Examples

Test #	Input File Content	Output File Content
T1	<u>Valid Account File</u> 0000000	(empty)
T2	<u>Valid Account File</u> 1000327 1043565 0000000	
T3	<u>Valid Account File</u> 0000000	
T4	<u>Valid Account File</u> 1000327 1043565 0000000	
T5 - T7	<u>Valid Account File</u> 0000000	

**Logout Tests**

- This tests if the user can log out successfully
- Sends an "EOS" string to be written to transaction summary file
- Testing of using logout command before login has previously been tested in login

Test #	Desc	Purpose	Input	Input Files	Output Files	Terminal Output
T1	Logout, ATM case	Check that logout is accepted	logout	None	Transaction message containing "EOS"	Empty, or possibly information messages in response to commands
T2	Logout, Agent case	Check that logout is accepted	logout	None	Transaction summary file with no transactions	Empty, or possibly information messages in response to commands

**Logout Tests Input/Output Examples**

Test #	Input File Content	Output File Content
T1, T2	(empty)	<u>Transaction Message</u> "EOS"

**Create Account Tests**

- The account number will be checked first
- Therefore if we are testing the account name, the account number is valid

Test #	Desc	Purpose	Input	Input Files	Output Files	Terminal Output
T1	ATM case, create account	Reject attempt to create account on ATM	createacct	Valid accounts file	None	Error message telling users they can not create account on ATM
T2	agent case, create account, Invalid account number	Reject attempt to create account with number that already exists	createacct 1000327 Ben Lammers	Valid accounts file containing account 1000327	None	Error message telling users they can not use that account number
T3		Reject account numbers that start with 0	createacct 0000327 Ben Lammers	Valid accounts file	None	Error message telling users they can not use an account number starting with 0
T4		Reject numbers that are longer than 7 digits	createacct 213000327 Ben Lammers	Valid accounts file	None	Error message telling users that account number must be 7 digits
T5		Reject numbers that are shorter than 7 digits	createacct 327 Ben Lammers	Valid accounts file	None	
T6		Reject number that contain non-numeric characters	createacct 3435bbb Ben Lammers	Valid accounts file	None	Error message telling users that account number is invalid
T7	agent case, create account, invalid account name (assume valid account number)	Reject account name that is less than 3 characters	createacct 1000327 BL	Valid accounts file not containing 1000327	None	Error message telling users that name must be 3-30 characters long
T8		Reject account name that is more than 30 characters	createacct 1000327 'This account name is way too long'	Valid accounts file not containing 1000327	None	
T9	agent case, create account, invalid account name	Reject account name beginning with a space	createacct 1000327 BL	Valid accounts file not containing 1000327	None	Error message telling users that name can not start or end with a space

T10	agent case, create account, invalid account name	Reject account name ending with a space	createacct 1000327 BL(space)	Valid accounts file not containing 1000327	None	Empty, or possibly information messages in response to commands
T11	agent case, create account, Valid input	Accept account with valid account number and account name	createacct 1000327 Ben Lammers	Valid accounts file not containing 1000327	Transaction message containing create account transaction	Empty, or possibly information messages in response to commands

Create Account Tests Input/Output Examples

Test #	Input File Content	Output File Content
T1	<u>Valid Accounts File</u> 1000327 0000000	(empty)
T2 - T6	<u>Valid Accounts File</u> 30444933 1000327 0000000	
T7 - T9	<u>Valid Accounts File</u> 1003426 1003256 0000000	
T10	<u>Valid Accounts File</u> 1003426 1003256 0000000	<u>Transaction Message</u> "NEW 1000327 000 0000000 Ben Lammers"

### Delete Account Tests

- For testing the input since we can only delete accounts that are in the valid account file we do not need to test every possible incorrect numerical input, just if they are not in the valid account file
- Specifications do not say that account name needs to be validated at this stage
- Deleted accounts removed from valid account file for the day

Test #	Desc	Purpose	Input	Input Files	Output Files	Terminal Output
T1	ATM case, delete account	Reject attempt to delete account on ATM	deleteacct	VAF	None	Error message telling users they can not delete account on ATM
T2	Agent case, delete account, invalid account number	Reject account numbers not in valid account list	deleteacct 1000327 Ben Lammers	VAF not containing 1000327	None	Error message telling users that the given account is not on valid account list
T3		Reject account numbers that have non-numeric characters	deleteacct 1234bbb Ben Lammers	VAF	None	Error message telling users that the account number must be all numeric digits
T4	Agent case, delete account, valid account number	Accept account number that is in VAF, write transaction and remove number from VAF	deleteacct 1000327 Ben Lammers	VAF containing 1000327	VAF not containing 1000327, transaction message with delete transaction	Empty, or possibly information messages in response to commands

### Delete Account Tests Input/Output Examples

Test #	Input File Content	Output File Content
T1	<u>Valid Accounts File</u> 1000327 0000000	(empty)
T2, T3	<u>Valid Accounts File</u> 1000437 0000000	
T4	<u>Valid Accounts File</u> 1000327 0000000	<u>Transaction Message</u> "DEL 1000327 000 0000000 Ben Lammers"

**Deposit Tests**

- Since daily deposit limit in an ATM is \$5000 there will be a dictionary (Python hash table) that contains the amounts deposited by each account in the ATM that day so that it can be referenced

Test #	Desc	Purpose	Input	Input Files	Output Files	Terminal Output
T1	ATM/agent case, deposit command, invalid account number	Reject account numbers not in valid account list	deposit 1000327 1000	VAF not containing 1000327, deposit hash table if ATM	None	Error message telling users that the given account is not on valid account list
T2		Reject account numbers that have non-numeric characters	deposit 1234bbb 1000	VAF, deposit hash table if ATM	None	Error message telling users that the account number must be all numeric digits
T3	ATM case, deposit command, invalid amount	Reject deposit amount that exceeds \$2000	deposit 1000327 1000000	VAF containing 1000327, deposit hash table	None	Error message telling users there is a limit of \$2000 on an ATM
T4		Reject deposit amount that is less than \$0	deposit 1000327 -10000	VAF containing 1000327, deposit hash table	None	Error message telling users they can not deposit a negative amount
T5		Reject deposit amount that contains non-numeric characters	deposit 1000327 9f4ed-	VAF containing 1000327, deposit hash table	None	Error message telling users amount must be all numeric digits
T6	ATM case, deposit amount, exceeding limit	Reject deposit if you are attempting to deposit more than \$5000 in an ATM in a single day	deposit 1000327 100000	VAF containing 1000327, deposit hash table	None	Error message telling users that they have exceeded their ATM deposit limit
T7	ATM case, deposit command, valid amount	Accept valid deposit amount on ATM and create transaction message	deposit 1000327 100000	VAF containing 1000327, deposit hash table	Transaction message containing deposit transaction, deposit hash table with updated values	Empty, or possibly information messages in response to commands
T8	Agent case, deposit command, invalid amount	Reject deposit amount that exceeds \$999,999.99	deposit 1000327 100000000	VAF	None	Error message telling users there is a limit of \$2000 on an ATM
T9	Agent case, deposit command, invalid amount	Reject deposit amount that is less than \$0	deposit 1000327 -10000	VAF containing 1000327	None	Error message telling users they can not deposit a negative amount



T10	Agent case, deposit command, invalid amount	Reject deposit amount that contains non-numeric characters	deposit 1000327 9f4ed-	VAF containing 1000327	None	Error message telling users that the account number must be all numeric digits
T11	Agent case, deposit command, valid amount and number	Accept deposit amount and create transaction message	deposit 1000327 300000	VAF containing 1000327	Transaction message containing deposit transaction	Empty, or possibly information messages in response to commands

#### Deposit Tests Input/Output Examples

Test #	Input File Content	Output File Content
T1, T2	<u>Valid Accounts File</u> 1324333 0000000  <u>Deposit Hash Table</u> 1324333: \$0	(empty)
T3-T5	<u>Valid Accounts File</u> 1000327 1324333 0000000  <u>Deposit Hash Table</u> 1000327: \$0 1324333: \$0	(empty)
T6	<u>Valid Accounts File</u> 1000327 1324333 0000000  <u>Deposit Hash Table</u> 1000327: \$4500 1324333: \$0	(empty)
T7	<u>Valid Accounts File</u> 1000327 1324333 0000000  <u>Deposit Hash Table</u> 1000327: \$0 1324333: \$0	<u>Transaction Message</u> DEP 1000327 100000 0000000 ***  <u>Deposit Hash Table</u> 1000327: \$1000 1324333: \$0
T8-10	<u>Valid Accounts File</u> 1000327 1324333 0000000	(empty)
T11	<u>Valid Accounts File</u> 1000327 1324333 0000000	<u>Transaction Message</u> DEP 1000327 300000 0000000 ***

**Withdraw Tests**

- Since daily withdrawal limit at an ATM is \$5000 there will be a dictionary (Python hash table) that contains the amounts withdrawn by each account in the ATM that day so that it can be referenced

Test #	Desc	Purpose	Input	Input Files	Output Files	Terminal Output
T1	ATM/agent case, withdraw command, invalid account number	Reject account numbers not in valid account list	withdraw 1000327 10000	VAF not containing 1000327, withdraw hash table if on ATM	None	Error message telling users that the given account is not on valid account list
T2		Reject account numbers that have non-numeric characters	withdraw 1234bbb 10000	VAF, withdraw hash table if on ATM	None	Error message telling users that the account number must be all numeric digits
T3	ATM case, withdraw command, invalid amount	Reject withdraw amount that exceeds \$1000	withdraw 1000327 1000000	VAF containing 1000327, withdraw hash table	None	Error message telling users there is a limit of \$1000 on an ATM
T4		Reject withdraw amount that is less than \$0	withdraw 1000327 -10000	VAF containing 1000327, withdraw hash table	None	Error message telling users they can not withdraw a negative amount
T5		Reject withdraw amount that contains non-numeric characters	withdraw 1000327 9f4ed-	VAF containing 1000327, withdraw hash table	None	Error message telling users amount must be all numeric digits
T6	ATM case, withdraw amount, exceeding limit	Reject withdraw if you are attempting to withdraw more than \$5000 in an ATM in a single day	withdraw 1000327 100000	VAF containing 1000327, withdraw hash table	None	Error message telling users they have exceeded the daily ATM withdrawal limit
T7	ATM case, withdraw command, valid amount	Accept valid withdraw amount on ATM	withdraw 1000327 100000	VAF containing 1000327, withdraw hash table	Transaction message containing withdraw transaction	Empty, or possibly information messages in response to commands
T8	Agent case, withdraw command, invalid amount	Reject withdraw amount that exceeds \$999,999.99	withdraw 1000327 100000000	VAF containing 1000327	None	Error message telling users there is a limit of \$999,999.99 on an ATM
T9	Agent case, withdraw command,	Reject withdraw amount that is less than \$0	withdraw 1000327 -10000	VAF containing 1000327	None	Error message telling users they can not withdraw a

	invalid amount					negative amount
T10	Agent case, withdraw command, invalid amount	Reject withdraw amount that contains non-numeric characters	withdraw 1000327 9f4ed-	VAF containing 1000327	None	Error message telling users that the account number must be all numeric digits
T11	Agent case, withdraw command, valid amount and number	Accept withdraw amount and create transaction message	withdraw 1000327 100000	VAF containing 1000327	Transaction message containing withdraw transaction	Empty, or possibly information messages in response to commands

#### Withdraw Tests Input/Output Examples

Test #	Input File Content	Output File Content
T1, T2	<u>Valid Accounts File</u> 1324333 0000000  <u>Withdraw Hash Table</u> 1324333: \$0	(empty)
T3-T5	<u>Valid Accounts File</u> 1000327 1324333 0000000  <u>Withdraw Hash Table</u> 1000327: \$0 1324333: \$0	(empty)
T6	<u>Valid Accounts File</u> 1000327 1324333 0000000  <u>Withdraw Hash Table</u> 1000327: \$4500 1324333: \$0	(empty)
T7	<u>Valid Accounts File</u> 1000327 1324333 0000000  <u>Withdraw Hash Table</u> 1000327: \$0 1324333: \$0	<u>Transaction Message</u> WDR 1000327 100000 0000000 ***
T8-10	<u>Valid Accounts File</u> 1000327 1324333 0000000	(empty)
T11	<u>Valid Accounts File</u> 1000327 1324333 0000000	<u>Transaction Message</u> WDR 1000327 100000 0000000 ***

**Transfer Tests**

- Since daily transfer limit at an ATM is \$10000 there will be a dictionary (Python hash table) that contains the amounts transferred by each account in the ATM that day so that it can be referenced

Test #	Desc	Purpose	Input	Input Files	Output Files	Terminal Output
T1	ATM/agent case, transfer command, invalid account number	Reject if an account number is not in valid account list	transfer 1000243 1000327 10000	VAF not containing 1000327, transfer hash table if in atm mode	None	Error message telling users that a given account is not on valid account list
T2		Reject account numbers that have non-numeric characters	transfer 1000243 1000327 10000	VAF, transfer hash table if in atm mode	None	Error message telling users that the account number must be all numeric digits
T3	ATM case, transfer command, invalid amount	Reject transfer amount that exceeds \$10000	transfer 1000243 1000327 1000000	VAF containing 1000327 and 1000243, transfer hash table	None	Error message telling users there is a limit of \$10000 on an ATM
T4		Reject transfer amount that is less than \$0	transfer 1000243 1000327 -10000	VAF containing 1000327 and 1000243, transfer hash table	None	Error message telling users they can not transfer a negative amount
T5		Reject transfer amount that contains non-numeric characters	transfer 1000243 1000327 9f4ed-	VAF containing 1000327 and 1000243, transfer hash table	None	Error message telling users amount must be all numeric digits
T6	ATM case, transfer amount, exceeding limit	Reject transfer if you are attempting to transfer more than \$10000 in an ATM in a single day	transfer 1000243 1000327 650000	VAF containing 1000327 and 1000243, transfer hash table	None	Error message telling users they have exceeded the daily ATM transfer limit
T7	ATM case, transfer command, valid amount	Accept valid transfer amount on ATM	transfer 1000243 1000327 650000	VAF containing 1000327, transfer hash table	Transaction message containing transfer transaction	Empty, or possibly information messages in response to commands
T8	Agent case, transfer command, invalid amount	Reject transfer amount that exceeds \$999,999.99	transfer 1000243 1000327 100000000	VAF containing 1000327 and 1000243	None	Error message telling users there is a limit of \$999,999.99 on an ATM
T9		Reject transfer amount that is less than \$0	transfer 1000243 1000327 -10000	VAF containing 1000327 and 1000243	None	Error message telling users they can not transfer a negative amount

T10	Agent case, transfer command, invalid amount	Reject transfer amount that contains non-numeric characters	transfer 1000243 1000327 9f4ed-	VAF containing 1000327 and 1000243	None	Error message telling users that the account number must be all numeric digits
T11	Agent case, transfer command, valid amount and number	Accept transfer amount and create transaction message	Transfer 1000243 1000327 100000	VAF containing 1000327 and 1000243	Transaction message containing transfer transaction	Empty, or possibly information messages in response to commands

#### Transfer Tests Input/Output Examples

Test #	Input File Content	Output File Content
T1-T2	<u>Valid Accounts File</u> 1000243 1324333 0000000  <u>Transfer Hash Table</u> 1000243: \$0 1324333: \$0	(empty)
T3-T5	<u>Valid Accounts File</u> 1000243 1000327 0000000  <u>Transfer Hash Table</u> 1000243: \$0 1000327: \$0	(empty)
T6	<u>Valid Accounts File</u> 1000243 1000327 0000000  <u>Transfer Hash Table</u> 1000243: \$0 1000327: \$5000	(empty)
T7	<u>Valid Accounts File</u> 1000243 1000327 0000000  <u>Transfer Hash Table</u> 1000243: \$0 1000327: \$3000	<u>Transaction Message</u> XFR 1000243 650000 1000327 ***  <u>Transfer Hash Table</u> 1000243: \$0 1000327: \$9500
T8-T10	<u>Valid Accounts File</u> 1000243 1000327 0000000	(empty)
T11	<u>Valid Accounts File</u> 1000243 1000327 0000000	<u>Transaction Message</u> XFR 1000243 100000 1000327 ***

### Transaction Summary File Tests

- There will be a function which receives valid completed transactions as strings and writes them to the end of the current transaction summary file for the given session
- These tests are in regard to the function that will be appending these new "transaction messages" to the transaction summary file

Test #	Desc	Purpose	Input	Input Files	Output Files	Terminal Output
T1	Transaction appended to Empty TSF	Check that it works	Transaction Summary	Empty TSF	TSF with single new transaction summary line	Empty, or possibly information messages in response to commands
T2	Transaction appended to non-empty	Insure appending works as expected	Transaction Summary	Non-Empty TSF	TSF with new transaction line appended	Empty, or possibly information messages in response to commands

### Transaction Summary File Tests Input/Output Examples

Test #	Input File Content	Output File Content
T1	<u>Transaction Summary</u> EOS	<u>Transaction Summary</u> CCC AAAA MMMM BBBB NNNN EOS
T2	<u>Transaction Summary</u> CCC AAAA MMMM BBBB NNNN EOS	<u>Transaction Summary</u> CCC AAAA MMMM BBBB NNNN CCC AAAA MMMM BBBB NNNN EOS

### Merge Transaction Summary

Test #	Desc	Purpose	Input	Input Files	Output Files	Terminal Output
T1	Non-Empty to Non-Empty	Successfully merge two non-empty transaction files	None	Transaction Summary, Transaction Summary	Merged Transaction File	Empty, or possibly information messages in response to commands
T2	Empty to Non-empty	Successfully merge an empty and non-empty transaction file	None	Transaction Summary, Transaction Summary	Merged Transaction File	Empty, or possibly information messages in response to commands
T3	Empty to Empty	Successfully merge two empty transaction summary files	None	Transaction Summary, Transaction Summary	Merged Transaction File	Empty, or possibly information messages in response to commands

### Merge Transaction Summary Tests Input/Output Examples

Test #	Input File Content	Output File Content
T1	<u>Transaction Summary (1)</u> CCC AAAA MMMM BBBB NNNN CCC AAAA 1000 BBBB NNNN EOS  <u>Transaction Summary (2)</u> CCC AAAA MMMM BBBB NNNN CCC AAAA 2000 BBBB NNNN EOS	<u>Merged Transaction Summary</u> CCC AAAA MMMM BBBB NNNN CCC AAAA 1000 BBBB NNNN CCC AAAA MMMM BBBB NNNN CCC AAAA 2000 BBBB NNNN EOS
T2	<u>Transaction Summary (1)</u> EOS  <u>Transaction Summary (2)</u> CCC AAAA MMMM BBBB NNNN CCC AAAA 2000 BBBB NNNN EOS	<u>Merged Transaction Summary</u> CCC AAAA MMMM BBBB NNNN CCC AAAA 2000 BBBB NNNN EOS
T3	<u>Transaction Summary (1)</u> EOS  <u>Transaction Summary (2)</u> EOS	<u>Merged Transaction Summary</u> EOS

**Master Accounts File Tests**

Test #	Desc	Purpose	Input	Input Files	Output Files	Terminal Output
T1	Merge non-empty transaction summary with master	Test merging does not overwrite and carries over all data	No Terminal Input	Transaction Summary, Master	Updated Master	Empty, or possibly information messages in response to commands
T2	Merge empty transaction summary with master	Insure master remains unchanged	No Terminal Input	Master, Transaction Summary	Unchanged Master	Empty, or possibly information messages in response to commands
T3	Merge non-empty transaction summary with empty master.	Insure at systems start no failures	No Terminal Input	Transaction Summary, Empty Master	New Master File	Empty, or possibly information messages in response to commands
T4	Merge transaction summary with deleted accounts to master	Insure that deleted accounts are properly removed from the master.	No Terminal Input	Transaction Summary, Empty Master	Master File with deleted accounts	Empty, or possibly information messages in response to commands
T5	Merge Transaction summary with invalid account balance to Master	Insure that the account is disabled and balance remains 0.	No Terminal Input	Transaction Summary, Master	Master File with disabled accounts that have negative balance	Error saying account # and balance.
T6		Insure that the account does not have more than 999,999.99	No Terminal Input	Transaction Summary and Master	Master File with account removed.	Error saying account # and name exceeded limit.
T7	Merge Transaction Summary with deleted account which isn't a real account to master.	Insure that no action is made if fake account is deleted.	No Terminal Input	Transaction Summary, Master	Unchanged Master	Empty, or possibly information messages in response to commands



Master Accounts File Tests Input/Output Examples

Test #	Input File Content	Output File Content
T1	<p><u>Transaction Summary</u>  DEP 1010101 50000 0000000 Spencer Venable  DEP 2121212 40000 0000000 Ben Lammers  WDR 3131313 30000 0000000 Skylar Mason  EOS</p> <p><u>Master</u>  1010101 20000 Spencer Venable  2121212 30000 Ben Lammers  3131313 40000 Skylar Mason</p>	<p><u>New Master</u>    1010101 70000 Spencer Venable  2121212 70000 Ben Lammers  3131313 10000 Skylar Mason</p>
T2	<p><u>Transaction Summary</u>  EOS</p> <p><u>Master</u>  1010101 20000 Spencer Venable  2121212 30000 Ben Lammers  3131313 40000 Skylar Mason</p>	<p><u>New Master</u>  1010101 70000 Spencer Venable  2121212 70000 Ben Lammers  3131313 10000 Skylar Mason</p>
T3	<p><u>Transaction Summary</u>  NEW 1010101 000 0000000 Spencer Venable  NEW 3131313 000 0000000 Skylar Mason  NEW 2121212 000 0000000 Ben Lammers</p> <p><u>Master</u>  (empty)</p>	<p><u>New Master</u>  1010101 000 Spencer Venable  2121212 000 Ben Lammers  3131313 000 Skylar Mason</p>
T4	<p><u>Transaction Summary</u>  DEP 1010101 50000 0000000 Spencer Venable  DEP 2121212 40000 0000000 Ben Lammers  DEL 3131313 000 0000000 Skylar Mason  EOS</p> <p><u>Master</u>  1010101 20000 Spencer Venable  2121212 30000 Ben Lammers  3131313 40000 Skylar Mason</p>	<p><u>New Master</u>    1010101 20000 Spencer Venable  2121212 30000 Ben Lammers</p>
T5	<p><u>Transaction Summary</u>  WDR 1010101 50000 0000000 Spencer Venable  DEP 2121212 40000 0000000 Ben Lammers  DEP 3131313 000 0000000 Skylar Mason  EOS</p> <p><u>Master</u>  1010101 20000 Spencer Venable  2121212 30000 Ben Lammers  3131313 40000 Skylar Mason</p>	<p><u>New Master</u>  2121212 30000 Ben Lammers  3131313 40000 Skylar Mason</p>

T6	<u>Transaction Summary</u> DEP 1010101 99999999 0000000 Spencer Venable DEP 2121212 40000 0000000 Ben Lammers DEP 3131313 000 0000000 Skylar Mason EOS  <u>Master</u> 1010101 20000 Spencer Venable 2121212 30000 Ben Lammers 3131313 40000 Skylar Mason	<u>New Master</u> 2121212 30000 Ben Lammers 3131313 40000 Skylar Mason
T7	<u>Transaction Summary</u> DEP 1010101 2333 0000000 Spencer Venable DEP 2121212 40000 0000000 Ben Lammers DEP 3131313 000 0000000 Skylar Mason DEL 9999222 000 0000000 Benjiman Lermmers EOS  <u>Master</u> 1010101 20000 Spencer Venable 2121212 30000 Ben Lammers 3131313 40000 Skylar Mason	<u>New Master</u> 1010101 20000 Spencer Venable 2121212 30000 Ben Lammers 3131313 40000 Skylar Mason

### Valid Account File Tests

- The new master account file will only have valid accounts in it so all account numbers will be transferred to a new valid account file

Test #	Desc	Purpose	Input	Input Files	Output Files	Terminal Output
T1	Valid account file creation, empty master	Creating valid account file from empty master	No Terminal Input	Empty Master File	Valid account file	Empty, or possibly information messages in response to commands
T2	Valid account file creation, non-empty master	Creating valid account file from non-empty master.	No Terminal Input	Master File	Valid account file	Empty, or possibly information messages in response to commands

### Valid Account File Tests Input/Output Examples

Test #	Input File Content	Output File Content
T1	<u>Master File</u> (empty)	<u>Valid Account File</u> 0000000
T2	<u>Master File</u> 1010101 20000 Spencer Venable 2121212 30000 Ben Lammers 3131313 40000 Skylar Mason	<u>Valid Account File</u> 1010101 2121212 3131313 0000000