

Software Methodology Project 3 Test Specification

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System Testing			
Test Case #	Requirement	Test Description	Expected Output
1	Program should not accept incomplete data	Open an account with any of the fields empty	"Missing data for opening an account."
2	Program should not accept incomplete data	Close an account with any of the fields empty (except the amount, campus, or loyalty, which are not required for closing)	"Missing data for closing an account"
3	Program should not accept incomplete data	Open a valid campus checking account, but do not specify the campus	"Invalid campus code"
4	Program should not accept incorrect data	Open a valid account, but type something other than a number in the amount field	"Not a valid amount"
5	Program should not accept anyone too young	Open a valid account, but set the persons age such that they are under 16	"DOB invalid: under 16."
6	Program should not accept anyone too old for a college checking account	Open a valid college checking account, but set the persons age such that they are over 24	"DOB invalid: over 24"
7	Program should not allow closing a nonexistent account	Close a valid account that has not yet been added	"[account] is not in the database."
8	Program should not print accounts when they do not exist	Click any of the "print" buttons or click the "update" button	"Account database is empty!"
9	Program should not accept incomplete data	Withdraw or deposit from an account with any of the fields empty	"Missing data for withdrawing/depositing from an account."
10	Program should not allow withdrawing from or depositing to a nonexistent account	Withdraw or deposit from a valid account that has not yet been opened	"[account] is not in the database"
11	Program should not accept incorrect data	Withdraw or deposit to an account with the amount field set to a non-number	"Not a valid amount"

12	Program should not accept incorrect data	Open an account with the amount set to 0 or negative	“Initial amount cannot be 0 or negative”
13	Program should not accept incorrect data	Withdraw or deposit to an account with the amount set to 0 or a negative number	“Withdraw/Deposit - amount cannot be 0 or negative”
14	Program should open an account correctly	Open a completely valid account	“[account] opened”
15	Program should not allow opening duplicate accounts	Open the same account again	“[account] is already in the database”
16	Program should close an account correctly	Close the account	“[account] closed”
17	Program should not allow money market accounts with < 2000 initial balance	Open a valid money market account, but set the amount to a positive number less than 2000	“Minimum balance of 2000 required to open a money market account”
18	Program should withdraw/deposit correctly	Open a valid account, then withdraw from it, then deposit to it	“[account] opened” “[account] Withdraw - balance updated” “[account] Deposit - balance updated”
19	Program should print properly	Click the print button	“*Accounts sorted by account type and profile*” “[account]” “*end of list*”
20	Program should calculate fees and interest rates correctly	Click the print interest and fees button	“*list of accounts with fees and monthly interest*” “[account with fees/interest as determined by the project specification]” “*end of list*”
21	Program should update balance correctly	Click the update button	“*list of accounts with interest and fees applied*” “[account with balance updated using the proper fees and interest rate]” “*end of list*”
22	Program should load from a file properly	Click the load accounts from file button	Multiple messages displaying “[account] opened”