

Test Case #	Functional Requirement	Input Data / Precondition	Expected Outcome / Postcondition
1	Open a new checking account with valid data	The user will input First name, Last name, date of birth(older than 18), account type(checking), branch, and the Initial deposit amount.	The GUI shows a message that the account was opened successfully. The system creates a new checking account with the balance provided adds it to the database and no errors are shown.
2	Reject opening a Checking account if the initial deposit is negative.	The user will input First name, Last name, date of birth(older than 18), account type(checking), branch, and the Initial deposit amount(-100).	The GUI displays an error message that the Initial deposit cannot be negative. The account is not created. No changes are made to the account database.
3	Reject opening a College Checking account if the holder is over age 24.	The user will input First name, Last name, date of birth(older than 24), account type(college checking), branch, and the Initial deposit amount.	The GUI displays an error message that the holder is older than 24 and not eligible for College Checking. The account is not created. No changes are made to the account database.
4	Reject opening a Money Market account if the initial deposit is less than \$2000.	The user will input First name, Last name, date of birth(older than 18), account type(money market), branch, and the Initial deposit amount(1500).	The GUI displays an error message that the money market requires a minimum of \$2000. The account is not created. No changes are made to the account database.
5	Successfully open a Money Market account with a deposit of \$2000 or more.	The user will input First name, Last name, date of birth(older than 18), account type(money market), branch, and the Initial deposit amount(3000).	A success message indicates the Money Market account has been created. The new account has an initial balance of \$3000 and a withdrawal count 0.3. The account is now listed in the account database.
6	Allow the user to deposit money into an existing Checking account.	Under the Close/Deposit/Withdraw tab, the user will input the account number or	The GUI shows a message that the deposit was successful. The checking account balance

		relevant fields for an existing checking account and a valid Deposit amount(Ex. 200).	has been updated by +\$200. The deposit activity is logged and the new balance is shown.
7	Depositing into a Money Market account that increases the balance to \$5,000 or more, toggling loyal customer status.	Under the Close/Deposit/Withdraw tab, a user with a money market account that exists with a current balance below \$5000(Ex. \$4500) deposits an amount taking it over \$5000(\$1000).	The deposit is successful, and the new balance is \$5500(for example). The loyal status is now set to true. The deposit activity is logged and the new balance and status is shown.
8	Attempt to withdraw more money than the current balance in a Checking account.	Under the Close/Deposit/Withdraw tab, the user will input the account number or relevant fields for an existing checking account and a Withdrawal amount(Ex. \$1000) greater than the account balance(Ex. \$500).	The GUI displays an error message that there is insufficient funds. The withdrawal does not go through; the account balance remains \$500. A failed transaction message is shown.
9	Withdraw from a Money Market account after it has already performed 3 withdrawals in the current statement cycle, triggering the extra \$10 fee.	Under the Close/Deposit/Withdraw tab, the user will input the account number or relevant fields for a money market account with an above \$2000 balance, and 3 previous withdrawals logged and enter a withdraw amount(Ex. 100)	The withdrawal is allowed, but an extra \$10 fee is charged. The GUI displays a warning that the 4th withdrawal has triggered an additional \$10 fee. The new balance is decreased by the withdrawal amount plus any applicable fees and shown.
10	Closing an account that does not exist in the database should display an error message and do nothing.	Under the Close/Deposit/Withdraw tab, the user will input the account number or relevant fields for an account that does not exist and click close.	The GUI displays an error message that the account does not exist. No account is closed. No changes occur in the account database.
11	Successfully close an existing College Checking account.	Under the Close/Deposit/Withdraw tab, the user will input the account number or relevant fields for a college checking account and click close.	The GUI shows a success message that the college checking account has been closed. The account is removed from the active account list and placed in the archive. The

			final interest is calculated and shown.
12	Reject opening a Certificate Deposit (CD) account if the initial deposit is less than \$1000.	The user will input First name, Last name, date of birth(older than 18), account type(cd), branch, and the Initial deposit amount(Ex. 500).	The GUI displays an error message that the deposit amount is invalid. The account is not created. No change is made to the account database.
13	An exiting savings account user creates a checking account, toggling loyal customer status.	The user (with an existing savings account) will input First name, Last name, date of birth(older than 18), account type(checking), branch, and the Initial deposit amount.	The GUI shows a message that the account was opened successfully. The system creates a new checking account with the balance provided adds it to the database and no errors are shown. The savings account will now be marked as loyal.
14	Closing a CD account before maturity triggers early withdrawal penalties and interest calculations.	Under the Close/Deposit/Withdraw tab, the user will input the account number or relevant fields for a CD account(Ex. 6-month term) and select to close the account before the term end date.	The GUI shows a message that the account was closed successfully. The account is removed from the active account list and placed in the archive. The final interest as well as penalty is calculated and shown.
15	Print the account list sorted by Account Type	Under the account database tab click print by type.	The GUI displays a sorted list of accounts grouped by their type. No error messages are displayed.
16	Print statements for all accounts, including fees, interest, and transaction history.	Under the account database tab click return account statements.	The GUI displays statements for each account, including all transactions, monthly interest, monthly fees, and updated balances. The output is shown. No errors occur.