Test Document for Project #3

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Test Case #	Purpose of the test case	Input Data	Expected Output
1	Test that the GUI rejects opening and closing accounts, as well as withdrawing and depositing money when all data fields are empty.	No data input since testing empty data fields. "Process" and "Ok" buttons are pressed	"ERROR: First name and last name CANNOT be empty!!!"
2	Test that changing between the account types enables and disables the proper check boxes • Case 1: Checking selected • Case 2: Savings selected • Case 3: Money Market Selected	• Case 1: Select Checking • Case 2: Select Savings • Case 3: Select Money Market	• Case 1: "Direct Deposit" box enabled, "Loyal Customer" box disabled • Case 2: "Direct Deposit" box disabled, "Loyal Customer" box enabled • Case 3: Both boxes disabled
3	Test opening an account, which adds the account to a database as long as it doesn't already exist, and all parameters are valid. • Case 1: Add account that doesn't exist • Case 2: Add account that already exists with valid parameters • Case 3: Add account with invalid balance • Case 4: Add account with invalid date • Case 5: Empty name fields only • Case 6: Empty date field only • Case 7: Empty balance field only	• Case 1: Open Account. "John", "Doe", "500", "10/19/1998", Checking • Case 2: Open Account, "John", "Doe", "500", "10/19/1998", Checking • Case 3: Open Account, "John", "Doe", "blah", "10/19/1998", Checking • Case 4: Open Account, "John", "Doe", "500", "13/1/2010", Checking • Case 5: Open Account, "", "", "500" "12/1/2010", Checking • Case 6: Open Account, "John", "Doe", "500", "", Checking • Case 7: Open Account. "John", "Doe", "", "10/19/1998", Checking	• Case 1 prints: "Added to database!" • Case 2 prints: "ERROR: Account already exist!" • Case 3 prints: "ERROR: Balance field requires integer or decimal input!" • Case 4 prints: "ERROR: Invalid date!" • Case 5 prints: "ERROR: First name and last name CANNOT be empty!!!" • Case 6 prints: "ERROR: Date fields require integer input!"

			• Case 7 prints: "ERROR: Balance field requires integer or decimal input!"
4	Test closing an account, which removes the account from a database as long as it exists. Selecting this button should disable everything except first and last name fields • Case 1: Select Close Account button • Case 2: Close account that exists • Case 3: Close account that doesn't exist	• Case 1: Select Close Account • Case 2: Close Account, "John", "Doe", Checking (after adding John Doe account) • Case 3: Close Account, "Anthony", "Triolo", Checking	• Case 1: All fields disabled except first and last name fields • Case 2 prints: "Account Removed!" • Case 3 prints: "ERROR: Account doesn't exist!"
5	Test depositing and withdrawing to/from and account, which adds and removes money from an account as long as it exists and the account has enough money to withdraw from • Case 1: Withdraw/Deposit from an account that doesn't exist • Case 2: Attempt to withdraw more money than an account has • Case 3: Attempt to withdraw less money than an account has • Case 4: Withdraw negative amount money from an account no matter it exists in the database or not. • Case 5: Leave any of the profile fields empty	• Case 1: Deposit, Checking, "Anthony", "Triolo", "50" • Case 2: Withdraw, Checking, "John", "Doe", "500" (Account set up with $400) • Case 3: Withdraw, Checking, "John", "Doe", "200" (Account set up with $400) • Case 4: Withdraw Saving, "John", "Doe", "-50" (no matter the account exists or not). • Case 5: Empty first name with valid last name OR valid first name with empty last name.	• Case 1 prints: "ERROR: Account does not exist!" • Case 2 prints: "ERROR: Account does not exist or insufficient funds!" • Case 3 prints: "Withdrew $200.00" and printing account shows the account has $200 • Case 4 prints: "ERROR: Transaction amount should NOT be negative" • Case 5 prints: "First name and last name CANNOT be empty!!!"
6	Test functions of importing and exporting to/from files • Case 1: Cancel import • Case 2: Select file to import • Case 3: Import file that has accounts that are already in the database • Case 4: Cancel export • Case 5: Export to file	• Case 1: Select import, and then hit cancel • Case 2: Select import and then import database.txt • Case 3: Select import and import database.txt after already importing it • Case 4: Select export and then hit cancel	• Case 1 prints: "No source file selected!" • Case 2 prints: "Finished!" and then printing accounts prints correct info from text file • Case 3: "ERROR: Account already

		• Case 5: Select export and select where to export file	exist!" printed for each violation • Case 4 prints: "Export cancelled!" • Case 5: File is created and data from database is properly written in file
7	Test printing functions • Case 1: List accounts with an account in the database • Case 2: Print accounts by date opened • Case 3: Print accounts by last name • Case 4: No accounts in database	• Case 1: Hit "Print Accounts" button • Case 2: Hit "Print by date open" button • Case 3: Hit "Print by last name" button • Case 4: Hit "Print Account" button with no accounts in database	• Case 1: All accounts in database are printed • Case 2: All accounts, and details about fees are printed in order of date opened • Case 3: All accounts, and details about fees are printed in order of last name of the account holder • Case 4: "Database is empty."