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| GUI | |  |  |  |
| Test Case # | Requirement | | Test description and Input Data | Expected result/output |
| 1 | The method shall return “Account Database is empty!” if the Print Sorted button is pressed while the database is empty. | | Press Print Sorted button while database is empty. | “Account Database is empty!” |
| 2 | The method shall return “Account Database is empty!” if the Print Updated Balances button is pressed while the database is empty. | | Press Print Updated Balances button while database is empty. | “Account Database is empty!” |
| 3 | The method shall return “Account Database is empty!” if the Print Fees and Interest button is pressed while the database is empty. | | Press Print Fees and Interest button while database is empty. | “Account Database is empty!” |
| 4 | The method shall return “Missing First Name” if Open, Close, Deposit or Withdrawal button is pressed while the First Name field is empty. | | Press Open, Close, Deposit or Withdrawal Button while First Name field is empty. | “Missing First Name” |
| 5 | The method shall return “Missing Last Name” if Open, Close, Deposit or Withdrawal button is pressed while the Last Name field is empty. | | Press Open, Close, Deposit or Withdrawal Button while Last Name field is empty. | “Missing Last Name” |
| 6 | The method shall return “Missing Date of Birth” if Open, Close, Deposit or Withdrawal button is pressed while the Date of Birth field is empty. | | Press Open, Close, Deposit or Withdrawal button while Date of Birth field is empty. | “Missing Date of Birth” |
| 7 | The method shall return “Missing Amount” if Open, Close, Deposit or Withdrawal button is pressed while the Amount field is empty. | | Press Open, Close, Deposit or Withdrawal Button while Amount field is empty. | “Missing amount” |
| 8 | The method shall return “No Account Type Selected” if Open, Close, Deposit or Withdrawal button is pressed while an Account Type button is not selected | | Press Open, Close, Deposit or Withdrawal button while no Account Type button is selected | “No Account Type Selected” |
| 9 | The method shall return “Not a valid amount” if Open, Close, Deposit or Withdrawal button is pressed while the Amount field contains a non-number or number <= 0 | | Press Open, Close, Deposit or Withdrawal button while Amount contains a number <=0 or some other character | “Not a valid amount” |
| 10 | The method shall return “No file selected” if Load From File button is pressed and no file is selected. | | Press Load From File button, then close window without selecting file. | “No file selected” |
| 11 | The method shall return “No Campus Selected” if Open button is pressed with college checking selected and the college campus radio button not selected. | | Press Open while fields filled with name, dob over 16, college checking selected, and an amount over 0. The campus radio button is not selected. | “No Campus Selected” |
| 12 | The method shall return “DOB Invalid: 10/30/2023 under 16.” If Open button is pressed and dob is under 16. | | Press Open while the DOB field is set to 10/30/2023. | “DOB invalid: 10/30/2023 under 16.” |
| 13 | The method shall return “DOB invalid: 11/1/1999 over 24.” If Open button is pressed while college checking selected and dob is over 24. | | Press Open while DOB field is to 11/1/1999 and College Checking is selected. | “DOB invalid: 11/1/1999 over 24.” |
| 14 | The method shall return “Minimum of $2000 to open a Money Market account.” When Open button is pressed while Money Market selected and amount is <2000 | | Press Open while Amount field is set to 1999 and Money Market is selected. | “Minimum of $2000 to open a Money Market account.” |
| 15 | The method shall return “Jane Doe 10/1/1995(S) is already in the database.” When Open button is pressed while an equivalent account exists in the database. | | Open a Savings account for Jane Doe born 10/1/1995. Then try opening a Savings again with the same information. | “Jane Doe 10/1/1995(S) is already in the database.” |
| 16 | The method shall return “Initial deposit cannot be 0 or negative.” When Open button is pressed while the Amount field is <= 0 | | Open an account of any type with the fields filled with valid information, except the Amount. Put in 0 in the Amount field. | “Initial deposit cannot be 0 or negative.” |
| 17 | The method shall return “DOB invalid: 12/1/2023 cannot be today or a future day.” When Open is pressed while the DOB field contains the current or future date. | | Open an account of any type with the field filled with valid information, except the DOB. Set the DOB field to 12/1/2023 | “DOB invalid: 12/1/2023 cannot be today or a future day.” |
| 18 | The method shall return “Deposit - amount cannot be 0 or negative.” When Deposit is pressed while the Amount field is <= 0 | | Open an account of any type with the field filled with valid information. Deposit to the account with the Amount field to 0 | “Deposit - amount cannot be 0 or negative.” |
| 19 | The method shall return “Withdrawal - amount cannot be 0 or negative.” When Withdraw is pressed while the Amount field is <= 0 | | Open an account of any type with the field filled with valid information. With draw from the account with the Amount field to 0 | “Withdrawal - amount cannot be 0 or negative.” |
| 20 | The method shall return “Z D 11/5/2007(Savings) Withdraw - insufficient fund.” When Withdraw is pressed while Amount exceeds the account balance. | | Open an account “Z D 11/5/2007(Savings)” with a $50 opening deposit. Withdraw $51 from the account. | “Z D 11/5/2007(Savings) Withdraw - insufficient fund.” |